

Canon

BCTV Zoom Lens

UHDXS LENSES

CJ15ex4.3B

CJ20ex5B

CJ20ex7.8B

CJ25ex7.6B

UHDGC LENSES

CJ14ex4.3B

CJ17ex6.2B

CJ18ex7.6B

CJ18ex28B

CJ24ex7.5B

HDGC LENSES

KJ10ex4.5B

KJ17ex7.7B II

KJ22ex7.6B II

OPERATION MANUAL " Information display "

Read this operation manual before using the product.

This operation manual refers to the IRSE S, the IASE S and IASE-C S, etc.

memo

Introduction

Thank you for purchasing a Canon BCTV zoom lens.

This product comes with the following documents:

- Operation Manual “Before Using The Product” (Included with the product)
- Operation Manual “Regulations” (Included with the product)
- Operation Manual “Lens” (Web)
- Operation Manual “Information display” (Web)
- Quick guide “Information display” (Web)

Refer to this Operation Manual “Information display” for operating instructions and procedures for the information display.

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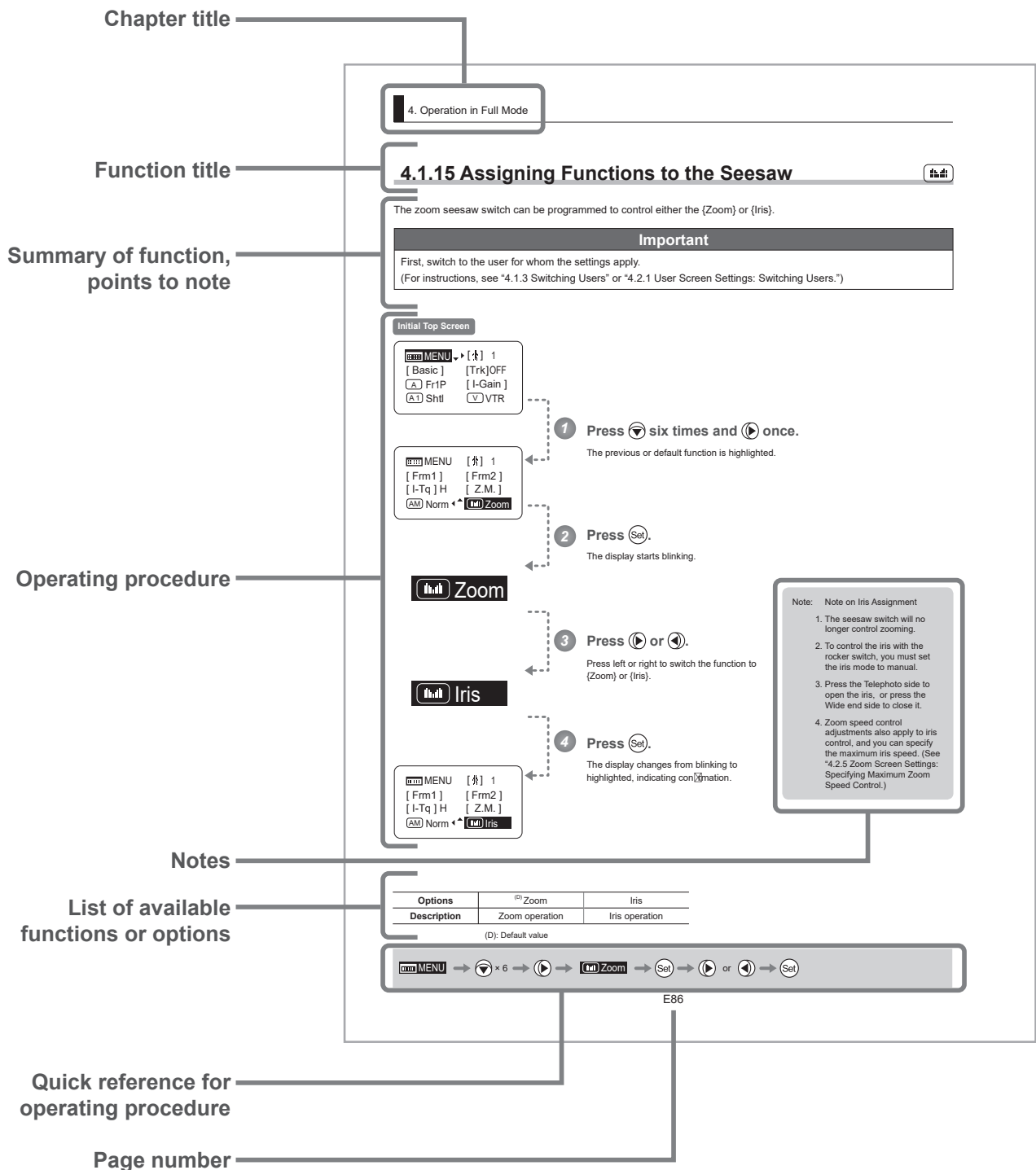
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Manual Layout

Pages with instructions are organized as follows.



Manual Conventions

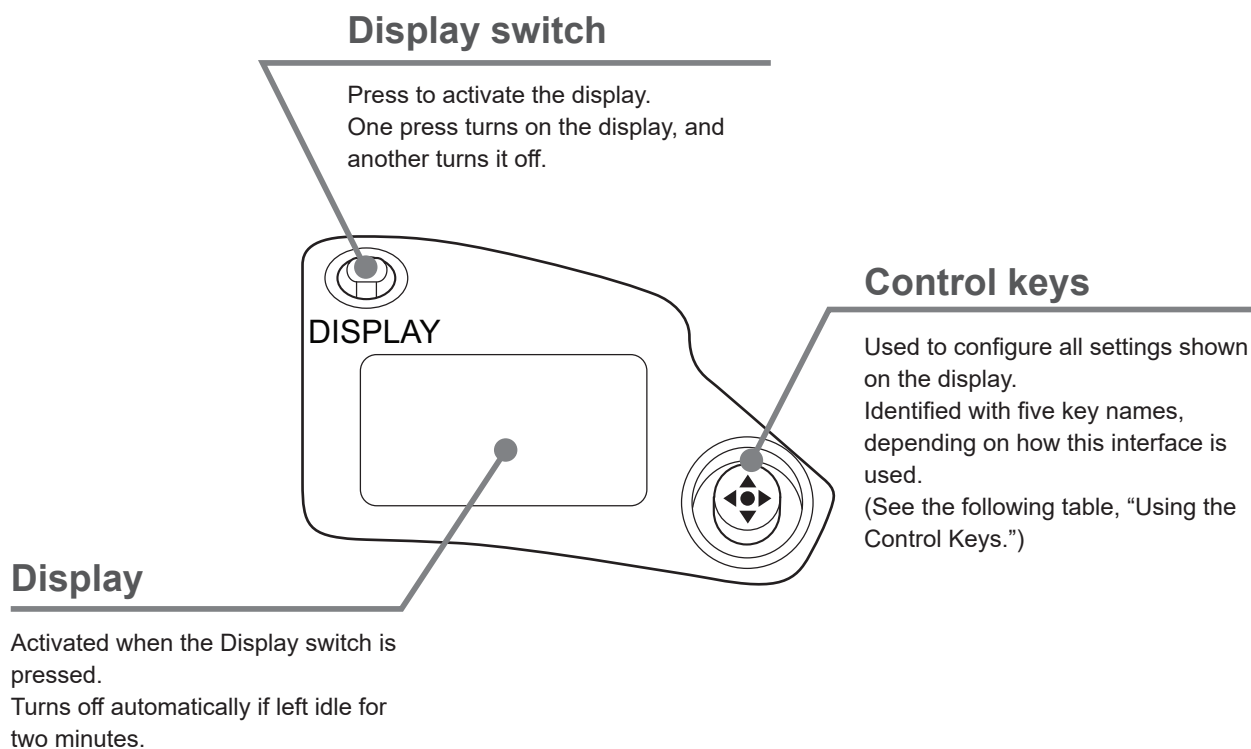
The following conventions are used in this manual.

| Convention | Description | Example |
|------------------|---|-------------------------------------|
| "R" Type | IRSE S lenses are identified as "R" type lenses. | With "R" type lenses |
| "A" Type | IASE S lenses are identified as "A" type lenses. | "A" type lenses only |
| ** screen | Names of screens are underlined. | The <u>Top screen</u> is displayed. |
| [] | Names of setting items are enclosed in square brackets. | [Frame 1] is underlined. |
| { } | Names of options are enclosed in curly brackets. | Select {Sped}. |
















| Lens Type | Operation | Mode |
|-----------|-----------|-----------------|
| "R" Type | Zoom | Manual or Servo |
| | Focus | Manual |
| "A" Type | Zoom | Manual or Servo |
| | Focus | Manual or Servo |

Part Names

Part Names and Functions



Operation Key Names and Operation Methods

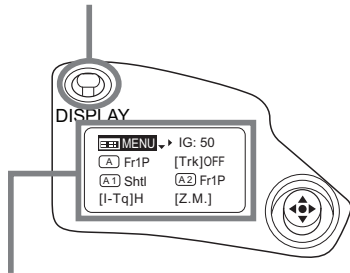
| Key | Operation | Details | Manual Convention |
|-----------|---|--|---|
| Set key | Press  | Pressed when {  } is displayed, or when entering a selection. |  |
| Right key | Move right  | Can be used when {  } is displayed. |  |
| Left key | Move left  | Can be used when {  } is displayed. |  |
| Up key | Move up  | Can be used when {  } is displayed. |  |
| Down key | Move down  | Can be used when {  } is displayed. |  |

Basic Sequence of Operations

1 Turn on the lens.

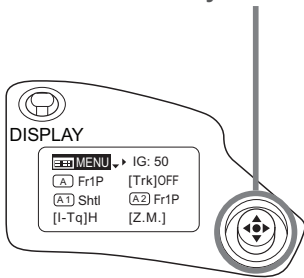
Note: For instructions on turning the lens on, refer to the camera manual.

2 Press the Display switch.



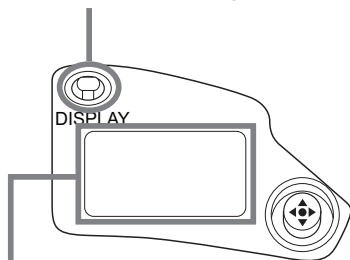
The display is now illuminated.

3 Use the control keys to complete settings.



Note: The display turns off automatically after two minutes if no control keys are pressed. (Auto Off.) However, the display remains active as long as the Fol. screen is shown. In this case, it is only deactivated when you press the Display switch.

4 Press the Display switch.



The display is turned off.

Changes are saved.

Note: Any changes to settings are saved even if the display is automatically deactivated, just as they are when it is switched off manually.

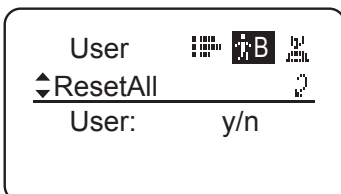
When the display is deactivated manually, changes to settings are saved and the display is turned off.

However, if the lens is turned off while the display is on, changes to settings may not be saved.

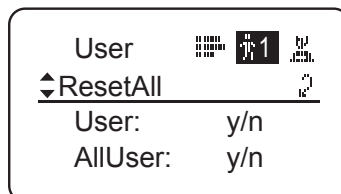
Important

For Reference: Display appearance when restoring original settings

Basic Mode



Full Mode



Restoring the Original Settings

The original settings can be restored, in the case of incorrect settings or if you have tried some settings tentatively.

For details, see “Resetting Values” in “3. Operation in Basic Mode” or “4. Operation in Full Mode.”

1

Screen Organization

1. Screen Organization

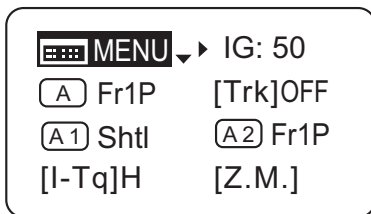
Screens contain 19 setting items in Basic mode, 34 in Full mode, and 3 in Analog mode, with Basic and Full modes also including a “follow” screen containing three setting items that have relative values. To access frequently used items on the **Top screen**, press the Display switch. All settings can be configured from the **Menu screen**, which also includes advanced settings. (See “Menu Screen” in “1. Screen Organization.”)

1.1 Top Screen

(For instructions on configuring the settings, see “Configuration from the Top Screen” in each mode.)

The **Top screen** contains 8 setting items in Basic mode, 14 in Full mode, and 3 in Analog mode.

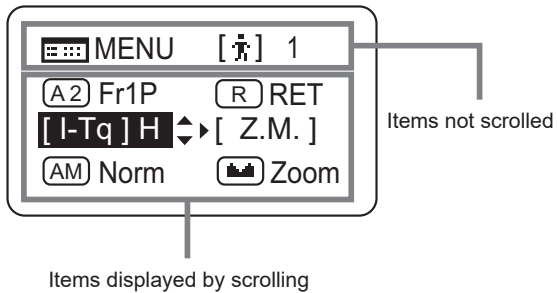
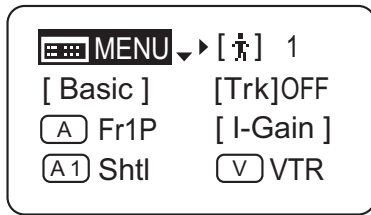
Initial Top Screen in Basic Mode



Top Screen in Basic Mode

1. Go to Menu screen
2. Auto iris gain settings
3. AUX switch assignment
4. Zoom tracking ON/OFF
5. AUX1 switch assignment
6. AUX2 switch assignment
7. Iris torque settings
8. Zoom curve mode settings

Initial Top Screen in Full Mode

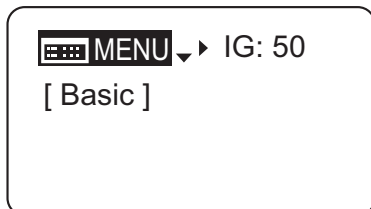


Top Screen in Full Mode

Of the 14 setting items in Full mode, the 8 most common are shown on the **Top screen**. The other 6 can be accessed by pressing down to scroll down the screen.

1. Go to Menu screen
2. Switch users
3. Switch to Basic mode
4. Zoom tracking ON/OFF
5. AUX switch assignment
6. Iris gain settings
7. AUX1 switch assignment
8. VTR switch assignment
9. AUX2 switch assignment
10. RET switch assignment
11. Iris torque settings
12. Zoom curve mode settings
13. Iris A/M switch setting
14. Seesaw switch assignment

Initial Top Screen in Analog Mode



Top Screen in Analog Mode

1. Go to Menu screen
2. Auto iris gain settings
3. Switch to Basic mode

1.2 Menu Screen

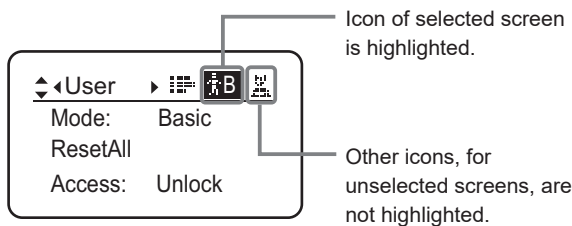
(For instructions on configuring the settings, see the “Menu Screen” section in the descriptions of each mode.)









Setting items in each mode and on the “follow” screen are organized by function. All of these screens are collectively referred to as the **Menu screen**.^{*1}

Menu Screen in Basic Mode

In Basic mode, the 19 setting items and three “follow” settings with relative values are organized by function into the following 8 screens.

(“R” type lenses have 7 screens.)



















1. User screen 
2. Switch screen 
3. Preset screen 
4. Iris screen 
5. Zoom screen 
6. Focus screen^{*2} 
7. Info screen 
8. Fol. screen 

*1: There is no single **Menu screen**. Instead, these 8 screens are collectively referred to as the **Menu screen**.

*2: Not shown in “R” type lenses.

To access these screens, select [MENU] on the **Top screen** and press the Set key. Initially, the **User screen** is displayed. To access other screens, press left or right.

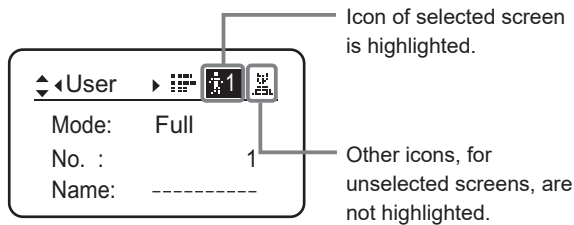
Menu Screen in Basic Mode









| | | |
|---|---|---|
| <p>User screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀User ▶▶  </p> <p>Mode: Basic</p> <p>ResetAll</p> <p>Access: Unlock</p> </div> | <p>Switch screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Switch ▶▶  </p> <p>(A) AUX: Fr1P</p> <p>(A1) AUX1: Shtl</p> <p>(A2) AUX2: Fr1P</p> </div> | <p>Preset screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Preset ▶▶  </p> <p>Frame1: Zoom</p> <p>Frame2: Zoom</p> <p>ZSpeed: 800</p> </div> |
| <p>Iris screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Iris ▶▶  </p> <p>[I-Gain]</p> <p>Torque: High</p> <p>Comp: ON</p> </div> | <p>Zoom screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Zoom ▶▶  </p> <p>CurveMode</p> <p>VR-Dem: ON</p> </div> | <p>Focus screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Focus ▶▶  </p> <p>CurveMode</p> </div> |
| <p>Info screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Info ▶▶  </p> <p>3D OFF</p> <p>Encoder: OFF</p> <p>CamSeri: ON</p> </div> | <p>Fol. screen</p> <div style="border: 1px solid black; padding: 5px;"> <p>◀◀Fol. ▶▶  </p> <p>Iris: 1000</p> <p>Zoom: 0000</p> <p>Focus: 0000</p> </div> | |

Menu Screen in Full Mode

In Full mode, the 34 setting items and three “follow” settings with relative values are organized by function into the following 8 screens.

(“R” type lenses have 7 screens.)



1. User screen 
2. Switch screen 
3. Preset screen 
4. Iris screen 
5. Zoom screen 
6. Focus screen^{*2} 
7. Info screen 
8. Fol. screen 



*1: There is no single **Menu screen**. Instead, these 8 screens are collectively referred to as the **Menu screen**.

*2: Not shown in “R” type lenses.

To access these screens, select [MENU] on the **Top screen** and press the Set key. Initially, the **User screen** is displayed. To access other screens, press left or right.

Menu Screen in Full Mode

User screen




◀User ▶  

Mode: Full

No. : 1

Name: -----

Switch screen





◀Switch ▶  1  

[A] AUX: Fr1P

[A1] AUX1: Shtl

[A2] AUX2: Fr1P

Preset screen




◀Preset ▶    

Frame1: Zoom

Frame2: Zoom

ZSpeed: 800

Iris screen




◀Iris ▶   

[I-Gain]

Torque: High

Comp: ON

Zoom screen





◀Zoom ▶   

Tracking: OFF

Movement




CurveMode

Focus screen

◀Focus ▶ []   

CurveMode

Info screen




◀Info ▶   

3D: OFF

Encoder: OFF

CamSeri: ON

Fol. screen

◀Fol. ▶    1

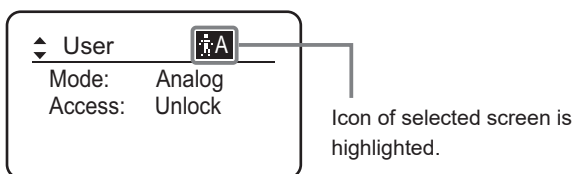
Iris: 1000


Zoom: 0000

Focus: 0000

Menu Screen in Analog Mode

In Analog mode, 2 setting items are presented as the **User screen**.



1. User screen 

*1: There is no single **Menu screen**. Instead, screens accessed by selecting [MENU] are collectively referred to as the **Menu screen**.

To access this screen, select [MENU] on the **Top screen** and press the Set key. The **User screen** is now displayed.

Menu Screen in Analog Mode



2

Mode Selection

2. Mode Selection

2.1 Modes

The following 3 modes are available. Choose a mode that suits your purpose or preference.

- 1. Basic Mode:** Restricted settings and information. Recommended for users who do not require sophisticated settings. This is the default mode.
- 2. Full Mode:** All settings and information are available.
- 3. Analog Mode:** This mode is selected when the digital functions are not used at all.

For details, see “3. Operation in Basic Mode,” “4. Operation in Full Mode,” or “5. Operation in Analog Mode.”

3

Operation in Basic Mode

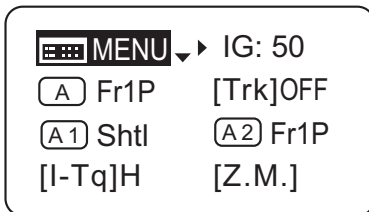
3. Operation in Basic Mode

3.1 Configuration from the Top Screen

To access the **Top screen**, press the Display switch.

A total of 8 items can be configured on the **Top screen** in Basic mode. The first screen displayed is referred to as the **Initial Top screen**. Status of some items can be checked simply by accessing this screen.

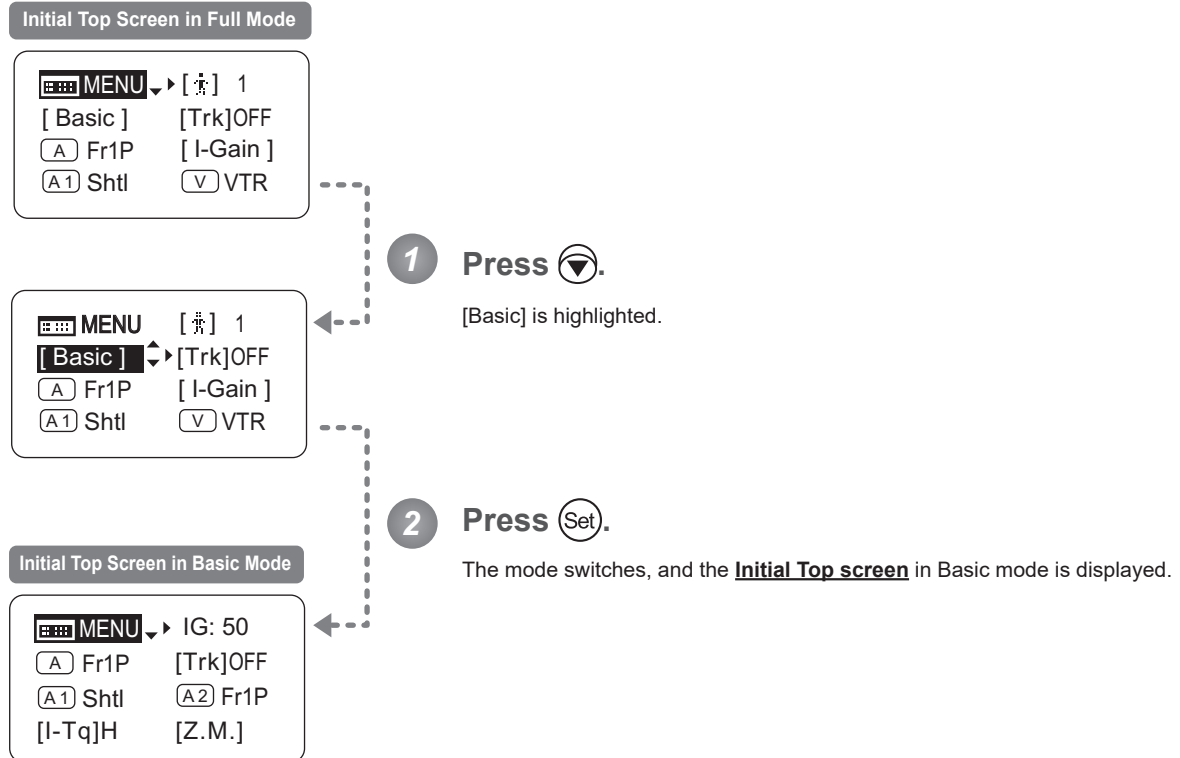
Initial Top Screen in Basic Mode



3.1.1 Selecting Basic Mode

Basic mode is the default mode, but it can also be accessed from other modes as follows.

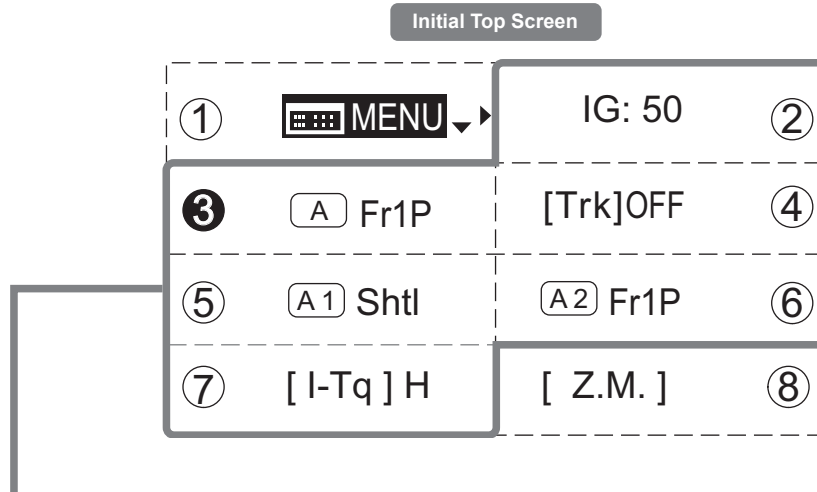
Switching from Full to Basic Mode




3.1.2 Top Screen


A total of 8 items can be configured on the **Top screen** in Basic mode, and these items are configured on the **Initial Top screen**. (See the following figure.)

Status of some items can be checked simply by accessing this screen. (Shown in the figure below.^{*1})



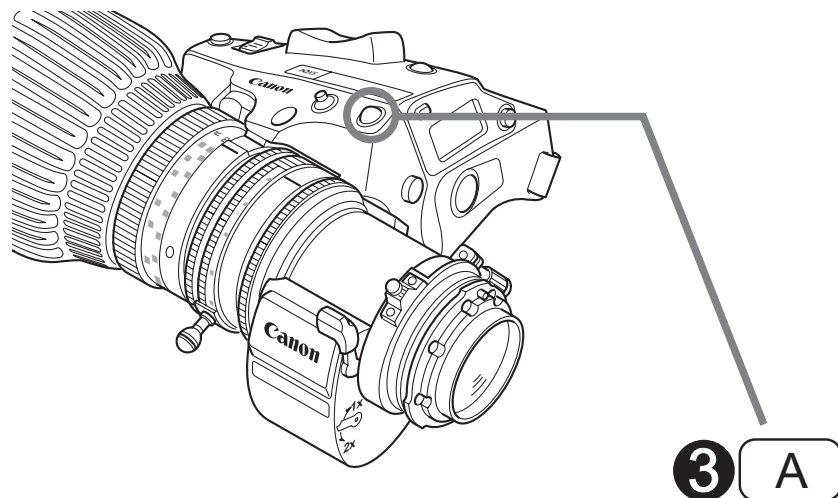
*1

Inside  : Items that show the current setting status.

Example:  Shtl indicates that the AUX1 switch is assigned to the Shuttle function.

③: White numbers against a black background indicate the number of the switch on a drive unit to which the function is assigned.

See the following lens illustration.



Actual forms may vary depending on models and specifications.

①  **Menu screen**

See “3.2 Configuration from the Menu Screen.”

② **IG Auto iris gain**

Adjust the auto iris gain value as needed.

See “3.1.3 Specifying Auto Iris Gain.”

③ **A AUX switch**

By default, the AUX switch for a drive unit is assigned to the {Frame Preset 1} function, but it can be reassigned as needed.

See “3.1.5 Assigning Functions to the AUX Switch.”

④ **[Trk] Zoom tracking**

Switch to ON when using zoom tracking.

See “3.1.4 Zoom Tracking ON/OFF.”

⑤ **A1 AUX1 switch**

By default, the AUX1 switch for a zoom demand is assigned to the {Shuttle} function, but it can be reassigned as needed.

See “3.1.6 Assigning Functions to the AUX1 Switch.”

⑥ **A2 AUX2 switch**

By default, the AUX2 switch for a zoom demand is assigned to the {Frame Preset 1} function, but it can be reassigned as needed.

See “3.1.7 Assigning Functions to the AUX2 Switch.”

⑦ **[I-Tq] Iris torque**

Adjust the level of torque in manual control of the iris ring as needed.

See “3.1.8 Specifying Iris Torque.”

⑧ **[Z.M.] Zoom curve mode**

Adjust zoom speed in response to pressing the zoom seesaw switch or tilting the analog demand thumb ring.

See “3.1.9 Specifying Zoom Curve Mode.”

3.1.3 Specifying Auto Iris Gain

[IG]

Although this value is factory-set, it can be adjusted as needed.

To adjust the value, use either the auto iris gain adjustment trimmer (refer to the operation manual “Lens”) or display operations. Regardless of the method of adjustment used, the most recent setting takes precedence.

The same auto iris gain value applies to all users.

Initial Top Screen

MENU ▾ IG: 50

(A) Fr1P [Trk]OFF

(A1) Shtl (A2) Fr1P

[I-Tq]H [Z.M.]

Screen A

MENU ▾ **IG: 50**

(A) Fr1P [Trk]OFF

(A1) Shtl (A2) Fr1P

[I-Tq]H [Z.M.]

IG: 50

IG: 51

MENU ▾ **IG: 51**

(A) Fr1P [Trk]OFF

(A1) Shtl (A2) Fr1P

[I-Tq]H [Z.M.]

1 Press .

Your selection is now highlighted.

2 Press .

The display starts blinking.

3 Press or .

Press left or right until you reach the desired value.

4 Press .

The display changes from blinking to highlighted, indicating confirmation.

Note: Do the following when adjusting gain while checking iris operation.

- Confirm that the drive unit A/M switch is set to [Auto] mode.
- Set the camera iris mode to [Auto].

Note: As you look at the lens iris ring, set it to the position of maximum gain at which “focus hunting” does not occur.

Note: The current iris gain value is retained even if you reset other settings as described in “3.2.1 Resetting Values.” For this reason, you will no longer be able to view the default setting. If necessary, make a note of the default setting before adjusting this value.

| | | | |
|--------------------|--------------|----|--------------|
| Options | 01 | to | 99 |
| Description | Minimum gain | | Maximum gain |

Default: Varies depending on the factory-set value, but corresponds to the value determined with the iris gain adjustment trimmer.



3.1.4 Zoom Tracking ON/OFF

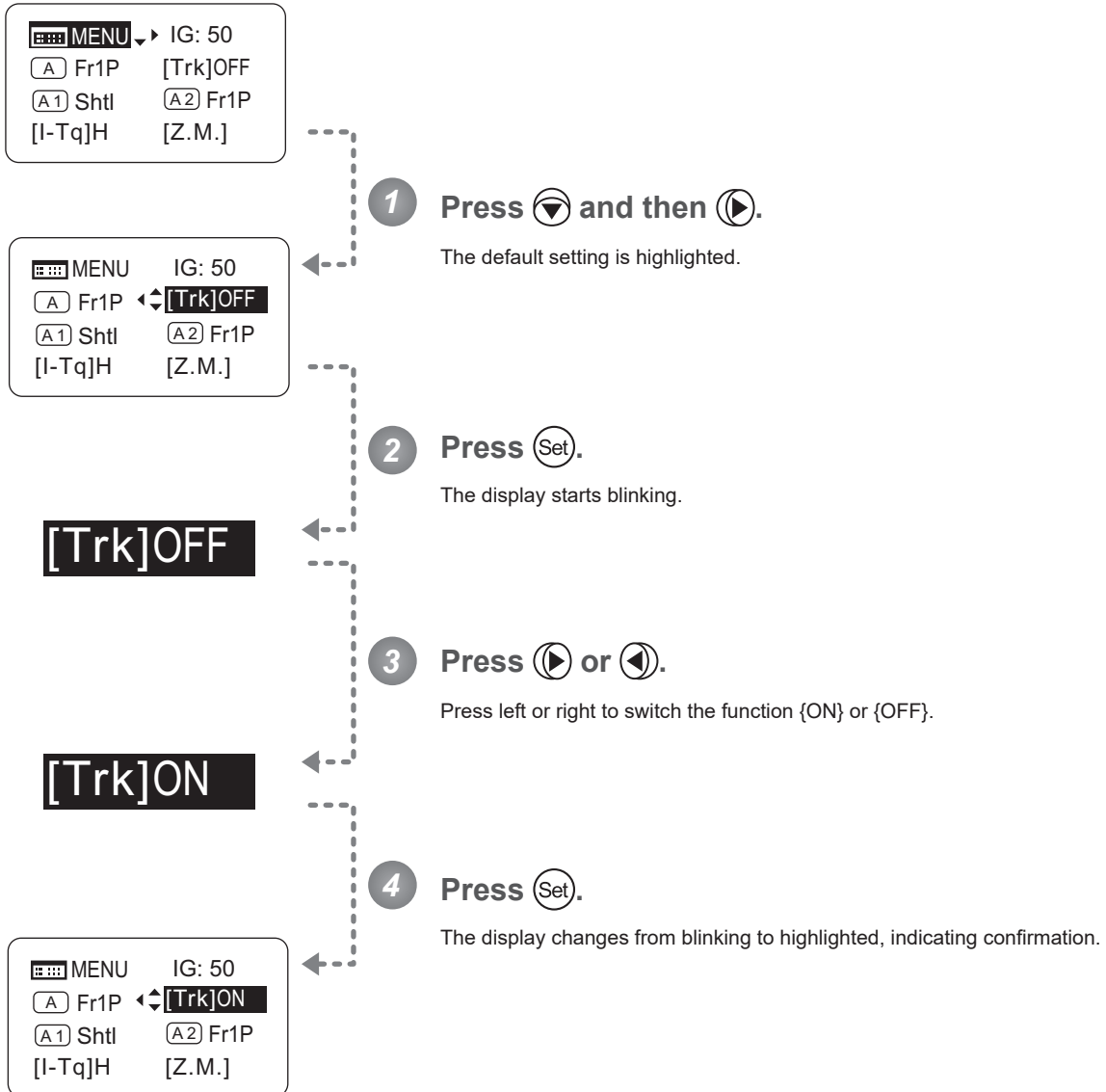
[Trk]

Activate or deactivate zoom tracking as needed.

Important

In Basic mode, any adjustments to this setting are not retained when the lens is turned off, and the default value is restored on startup.

Initial Top Screen



| Options | ^(D) OFF | ON |
|---------|--------------------|----|
|---------|--------------------|----|

(D): Default value

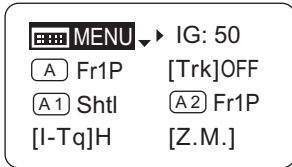


3.1.5 Assigning Functions to the AUX Switch

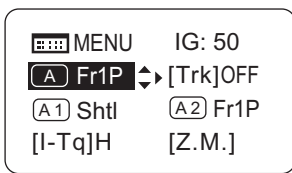
A

Assign your desired functions to the AUX switch.

Initial Top Screen



1 Press .
The default function is highlighted.



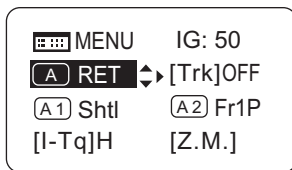
2 Press .
The display starts blinking.



3 Press or .
Press left or right until you reach the desired function.



4 Press .
The display changes from blinking to highlighted, indicating confirmation.



| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value

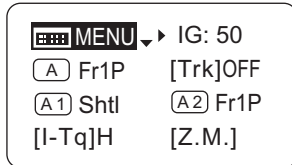


3.1.6 Assigning Functions to the AUX1 Switch

A1

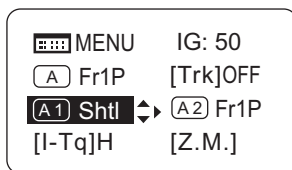
Assign your desired functions to the AUX1 switch.

Initial Top Screen



1 Press twice.

The default function is highlighted.



2 Press .

The display starts blinking.



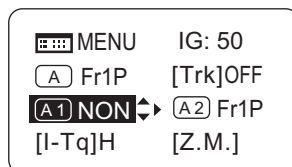
3 Press or .

Press left or right until you reach the desired function.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | Fr1P | Fr1F | Fr2P | Fr2F | Sped | ^(D) Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value

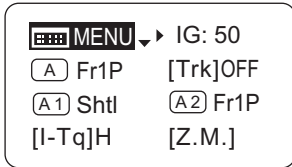


3.1.7 Assigning Functions to the AUX2 Switch

A2

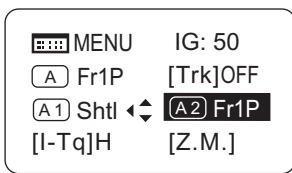
Assign your desired functions to the AUX2 switch.

Initial Top Screen



1 Press twice and once.

The default function is highlighted.



2 Press .

The display starts blinking.



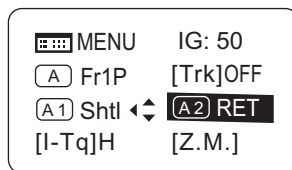
3 Press or .

Press left or right until you reach the desired function.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

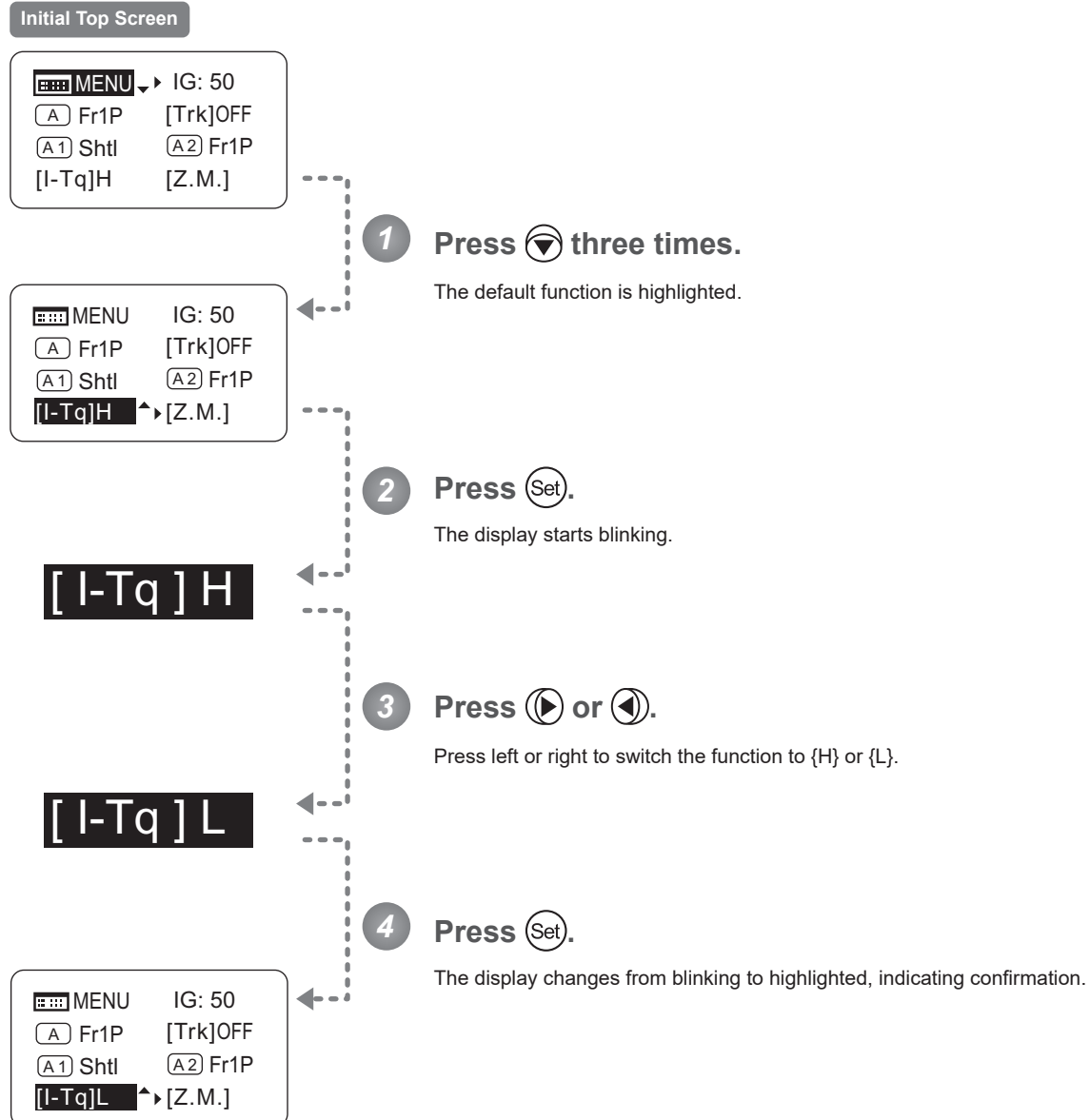
(D): Default value



3.1.8 Specifying Iris Torque

[I-Tq]

Specify the desired level of torque in manual control of the iris ring.



| Options | ^(D) H | L |
|-------------|------------------|------------|
| Description | High torque | Low torque |

(D): Default value

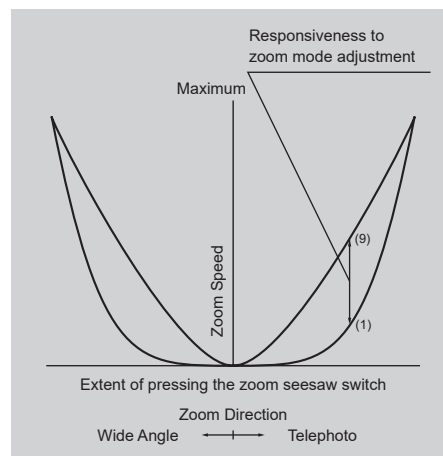
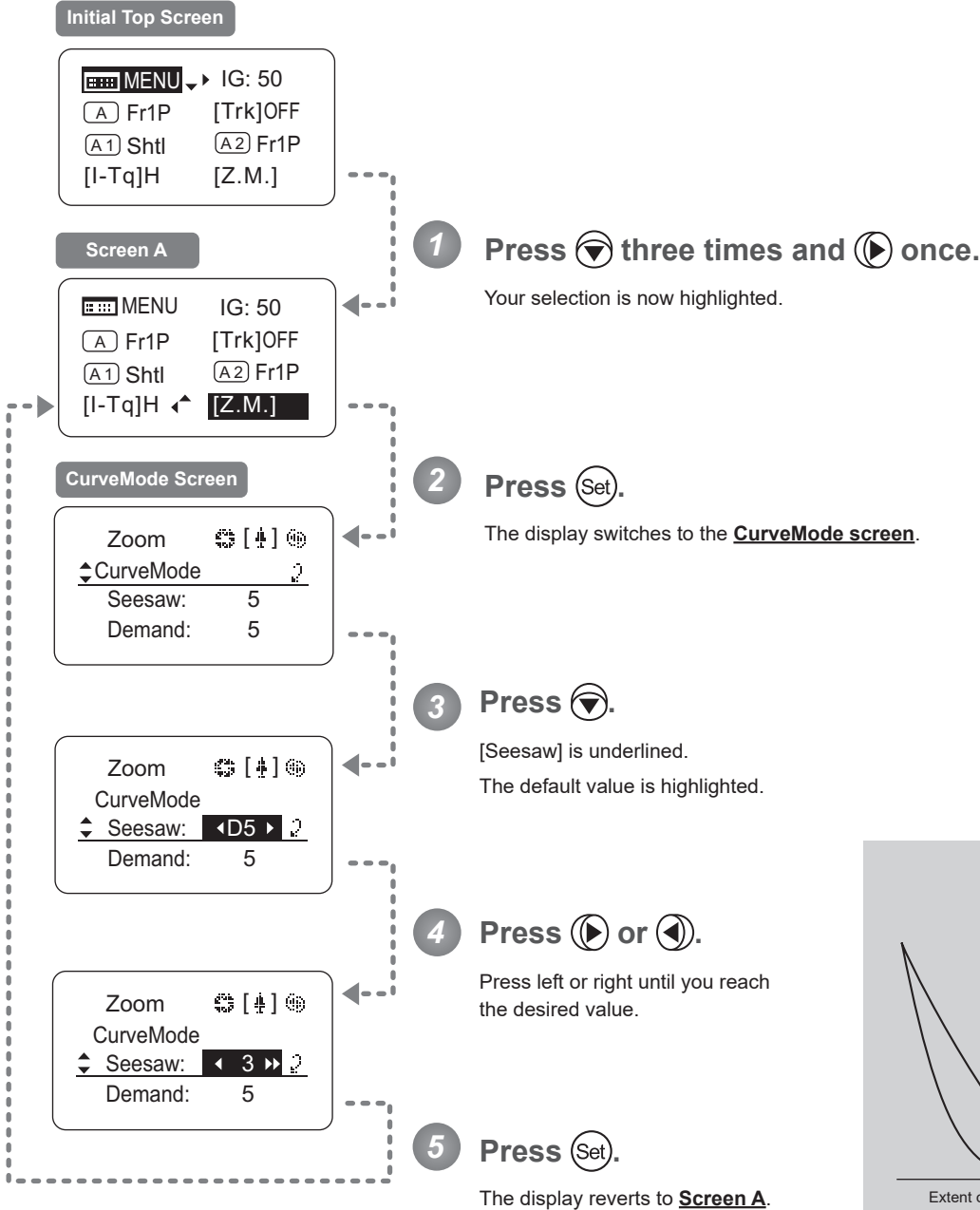


3.1.9 Specifying Zoom Curve Mode

[Z.M.]

Specifying Seesaw Switch Responsiveness

Configure the responsiveness of zoom speed adjustment in response to pressing the zoom seesaw switch.
 (Note: Another screen is displayed when this setting is configured.)



| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

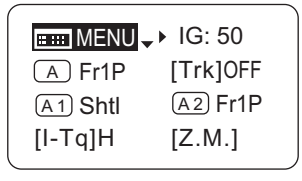
(D): Default value



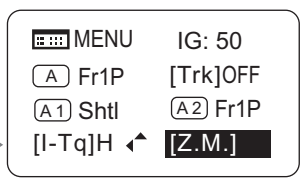
Specifying Analog Demand Responsiveness

Configure the responsiveness of zoom speed adjustment in response to pressing the analog demand thumb ring.
 (Note: Another screen is displayed when this setting is configured.)

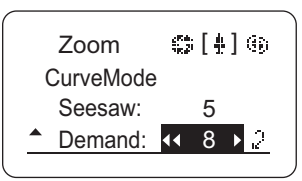
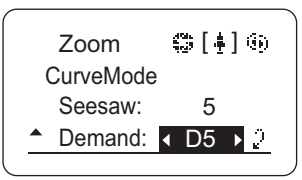
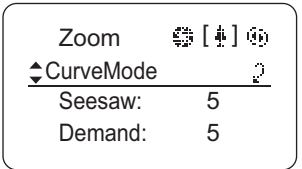
Initial Top Screen



Screen A



CurveMode Screen



1 Press **three times and** **once.**

Your selection is now highlighted.

2 Press .

The display switches to the **CurveMode screen**.

3 Press **twice.**

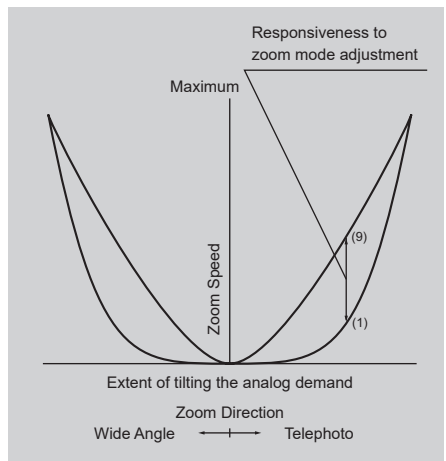
[Demand] is underlined.
The default value is highlighted.

4 Press **or** .

Press left or right until you reach the desired value.

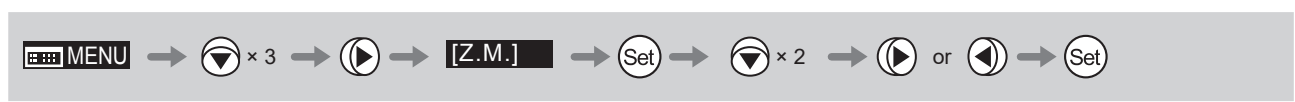
5 Press .

The display reverts to **Screen A**.



| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

(D): Default value



3.2 Configuration from the Menu Screen

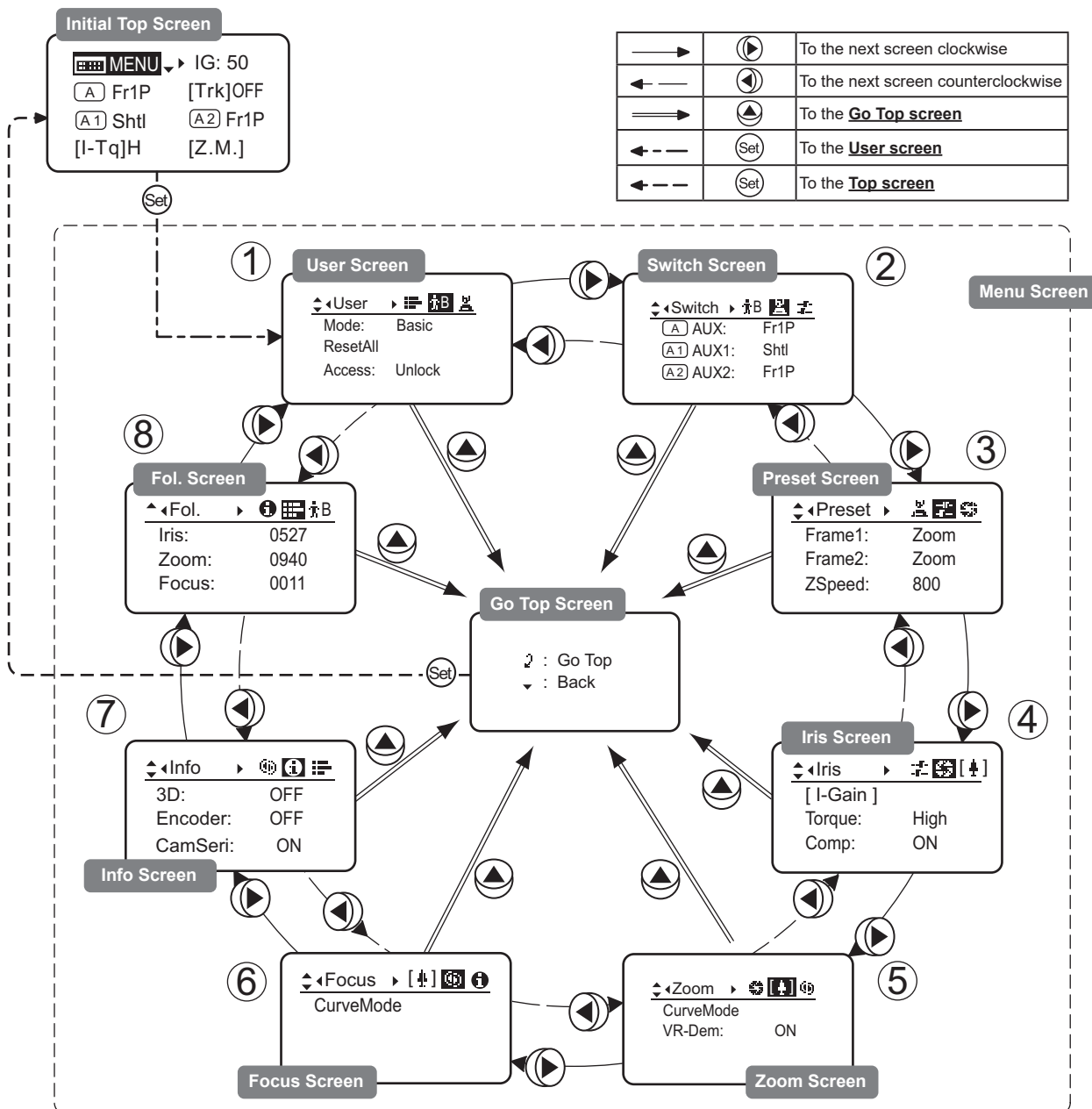
In Basic mode, you can view and configure 19 setting items and a “follow” screen with three setting items that have relative values from the **Menu screen**.*

Specifically, the **Menu screen** in Basic mode is organized into 8 (or for “R” type lenses, 7) screens by function: **User screen**, **Switch screen**, **Preset screen**, **Iris screen**, **Zoom screen**, **Focus screen** (only for “A” type lenses), **Info screen**, and **Fol. screen**.

Select [MENU] on the **Top screen** and press the Set key to access the **User screen** initially. Press left or right to access the 7 other screens. (See the following figure.)

*: There is no single **Menu screen**. Instead, these 8 screens are collectively referred to as the **Menu screen**.

Setting items labeled **Top** next to the function title can also be configured from the **Top screen**.



| | | |
|---|--------------------|-------|
| ① | User Screen..... | 3.2.1 |
| ② | Switch Screen..... | 3.2.2 |
| ③ | Preset Screen..... | 3.2.3 |
| ④ | Iris Screen | 3.2.4 |
| ⑤ | Zoom Screen..... | 3.2.5 |
| ⑥ | Focus Screen | 3.2.6 |
| ⑦ | Info Screen | 3.2.7 |
| ⑧ | Fol. Screen | 3.2.8 |

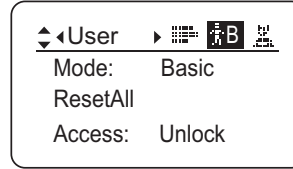
3.2.1 User Screen Settings

User B is the user in Basic mode.

The following setting items can be configured on the User Screen.

Switching Modes
Resetting Values
Locking Functions

User Screen in Basic Mode



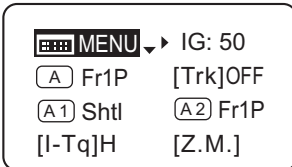
Switching Modes

Switch to Full or Analog mode as needed.

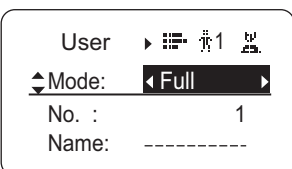
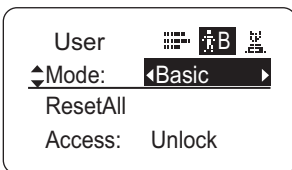
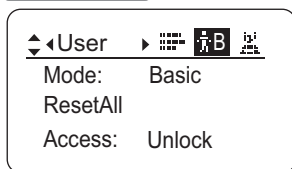
Important

The new mode setting is retained even after the lens is turned off.

Initial Top Screen



User Screen



1 Press **Set**.

The display switches to the **User screen**.

2 Press **Down Arrow**.

[Mode] is underlined.
The previous mode is highlighted.

3 Press **Right Arrow** or **Left Arrow**.

Press left or right until you reach the desired mode.

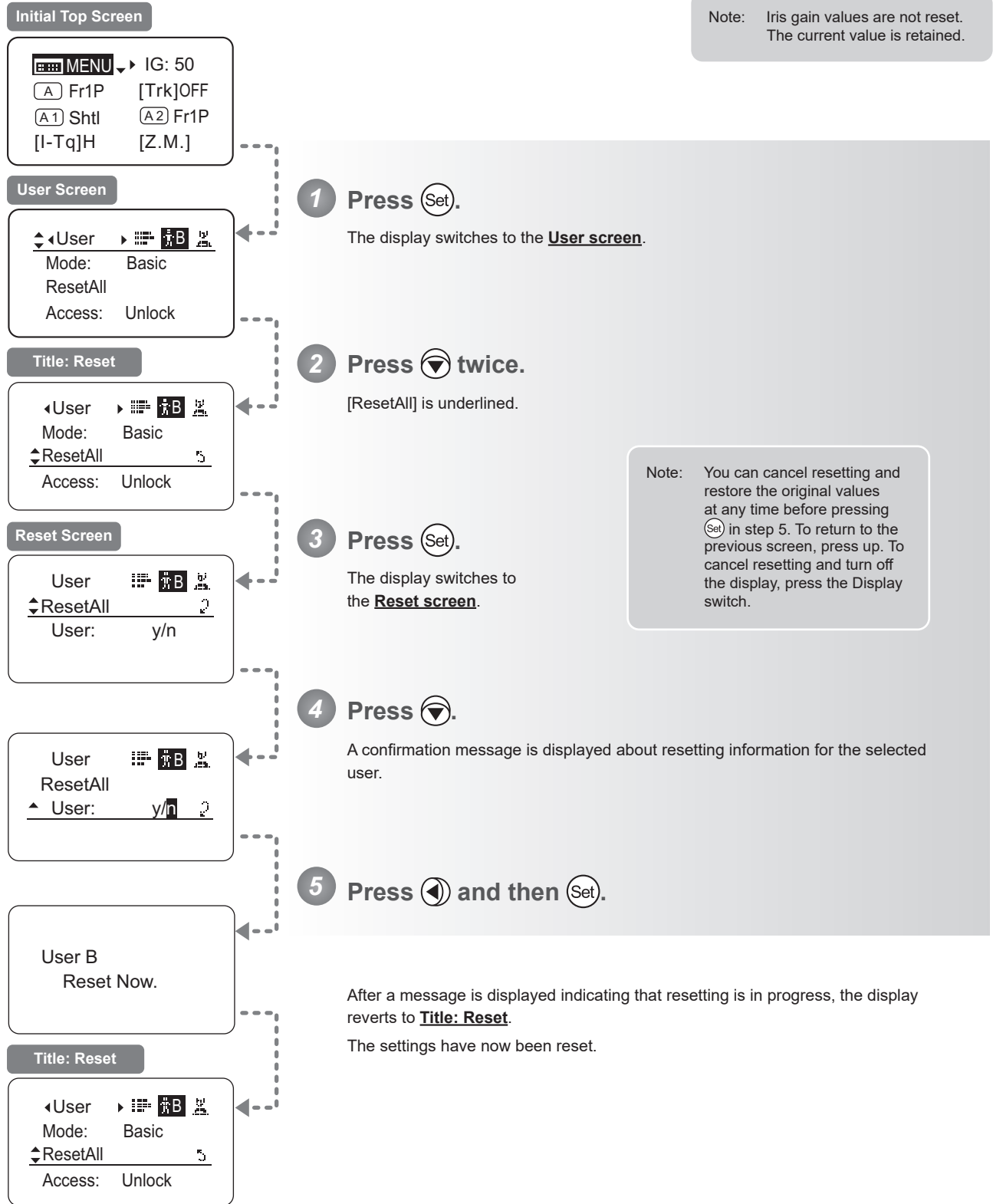
| Options | ^(D) Basic | Full | Analog |
|---------------|----------------------|-----------|-------------|
| Save Settings | Basic Mode | Full Mode | Analog Mode |

(D): Default value



Resetting Values

Reset a user's settings to default values as needed.



Locking Functions

To ensure that configured functions cannot easily be changed, you can lock the settings of certain functions.

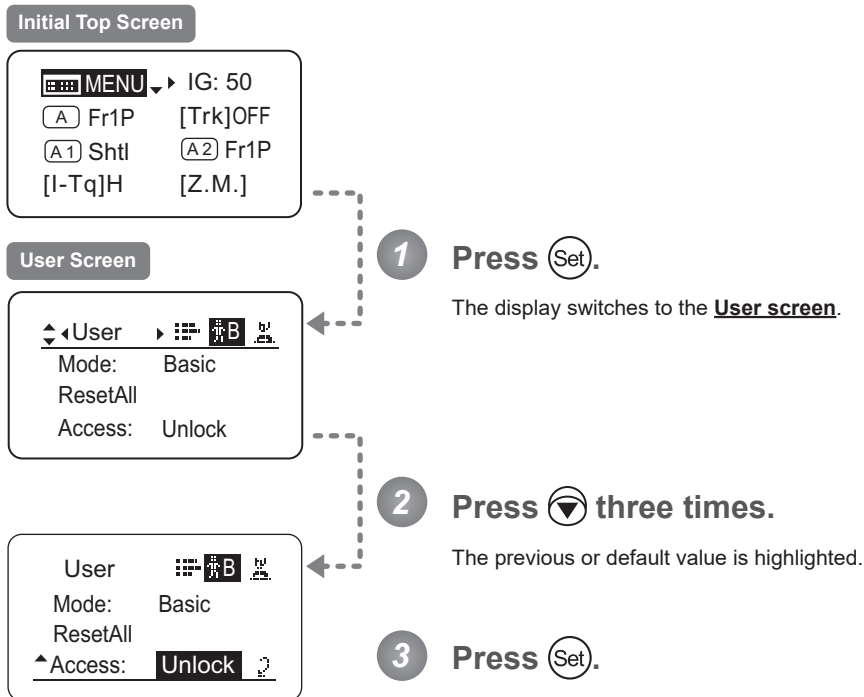


Note

In lock mode, only the following items can still be configured, and other settings are locked.

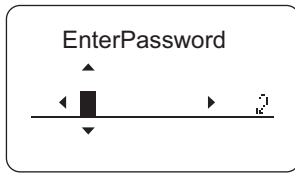
- Preset data (Shuttle shot position, Frame preset position, Preset speed)
- Auto iris gain setting

(1) Locking Settings



Continued on next page

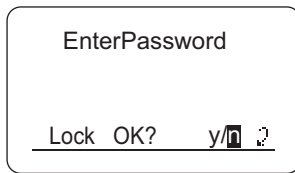
Continued from previous page



4 Enter the password and press (Set).

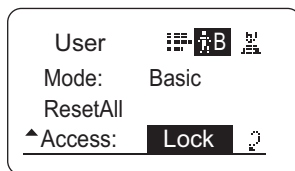
Entering Passwords

Press up/down to find characters and left/right to move the cursor or make corrections. Be careful not to press the Set key until you are finished entering the password.



5 Press (Left Arrow) and then (Set).

The settings are now locked.



Note

Passwords

No master password is used on this model. The password you enter each time to lock settings is the password used to unlock them. For this reason, we recommend making a note of the password each time. If you forget the password, contact Canon or your dealer. Passwords can be blank or up to 8 digits.

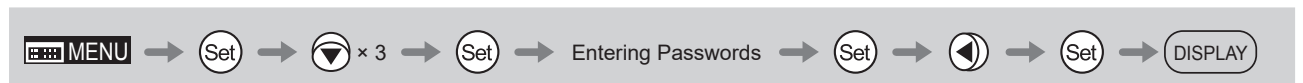
Characters supported in passwords

| | |
|--------------------|---|
| Options | (D) _-ABCDEFGHIJKLMN OPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789 |
| Max. Digits | 8 |

(D) : Default value
_ : Space

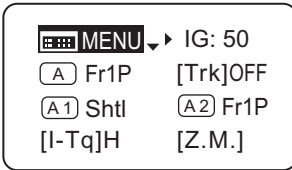
| | | |
|----------------|------------|------|
| Options | (D) Unlock | Lock |
|----------------|------------|------|

(D): Default value

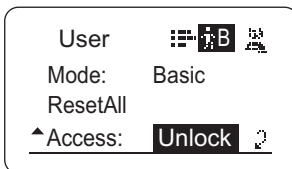
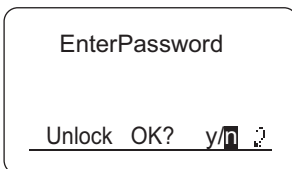
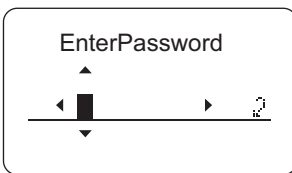
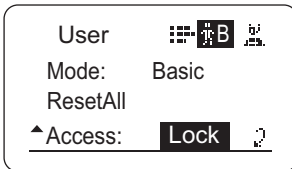
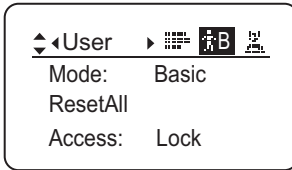


(2) Unlocking Settings

Initial Top Screen



User Screen



1 Press **Set**.

The display switches to the **User screen**.

2 Press **Down Arrow** three times.

The previous or default value is highlighted.

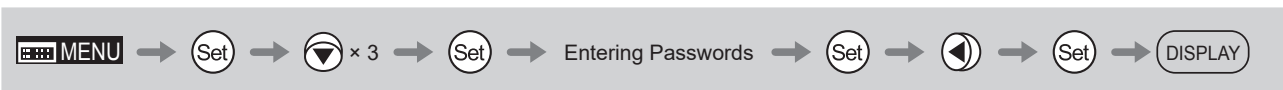
3 Press **Set**.

4 Enter the password and press **Set**.

The password you entered to lock settings is the password used to unlock them.

5 Press **Left Arrow** and then **Set**.

The settings are now unlocked.



3.2.2 Switch Screen Settings

The following setting items can be configured on the Switch screen.

Assigning Functions to the AUX Switch **Top**

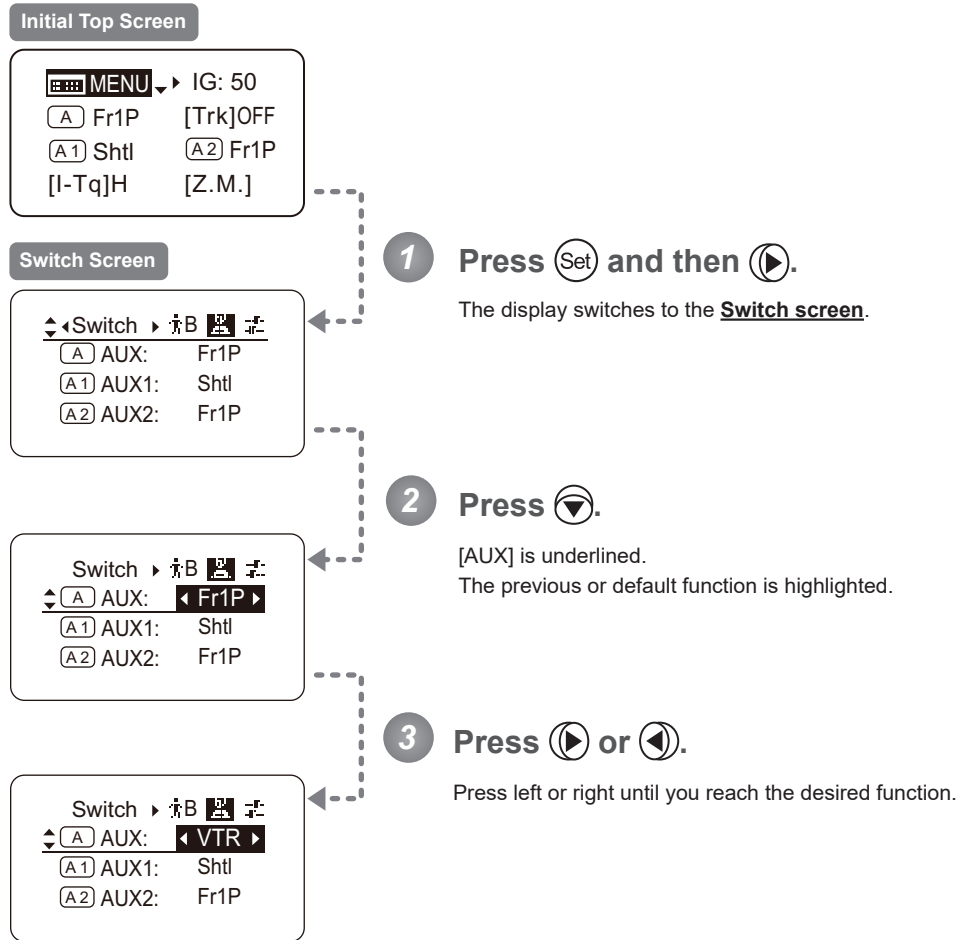
Assigning Functions to the AUX1 Switch **Top**

Assigning Functions to the AUX2 Switch **Top**

Items labeled **Top** can also be modified from the Top screen.

Assigning Functions to the AUX Switch Top

The AUX switch can be programmed to activate a function of your choice.



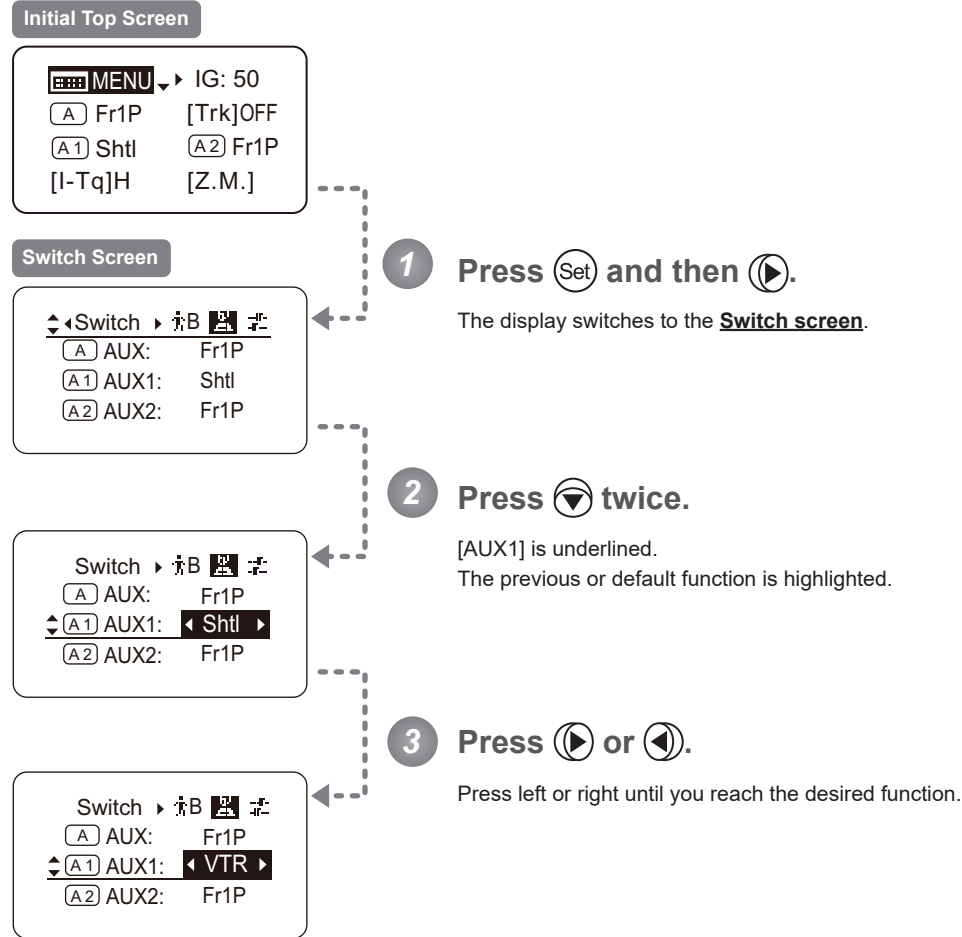
| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|--------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



Assigning Functions to the AUX1 Switch Top

The AUX1 switch for a zoom demand can be programmed to activate a function of your choice.



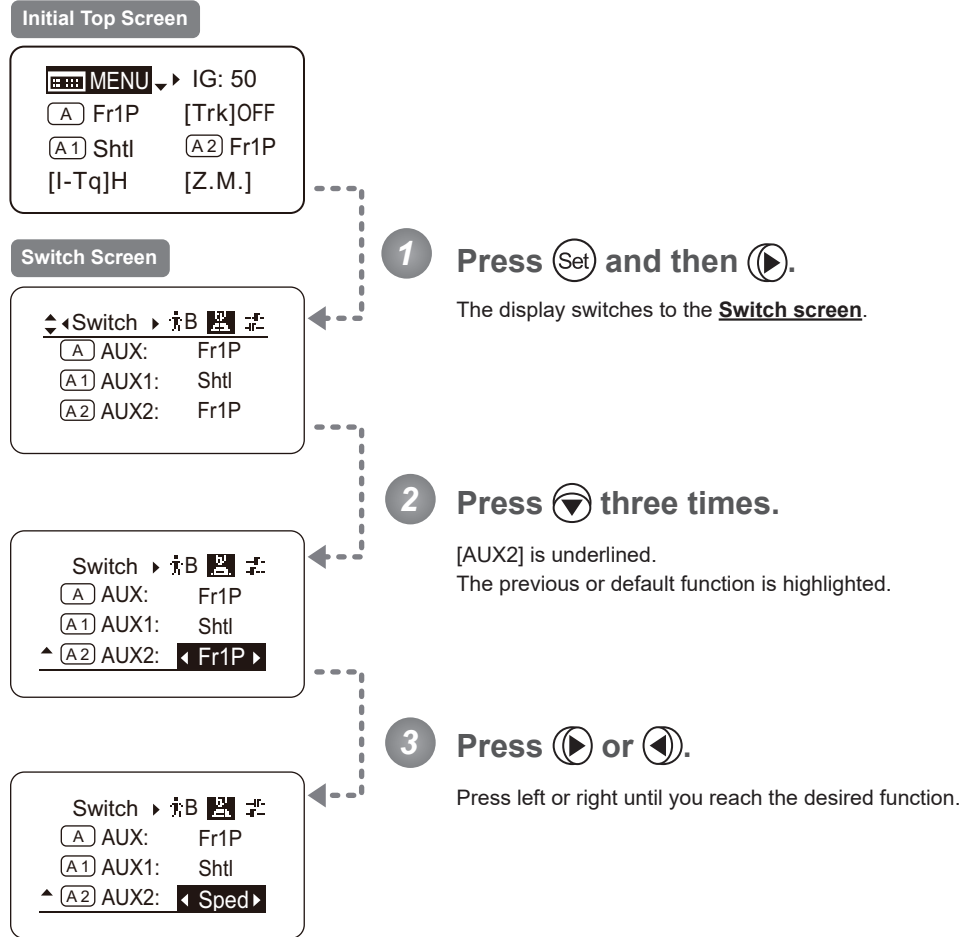
| Options | Fr1P | Fr1F | Fr2P | Fr2F | Sped | ^(D) Shtl | NON | VTR | RET |
|--------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



Assigning Functions to the AUX2 Switch Top

The AUX2 switch for a zoom demand can be programmed to activate a function of your choice.



| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|--------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



3.2.3 Preset Screen Settings

The following setting items can be configured on the **Preset screen**.

Switching What Frame Preset 1 Controls

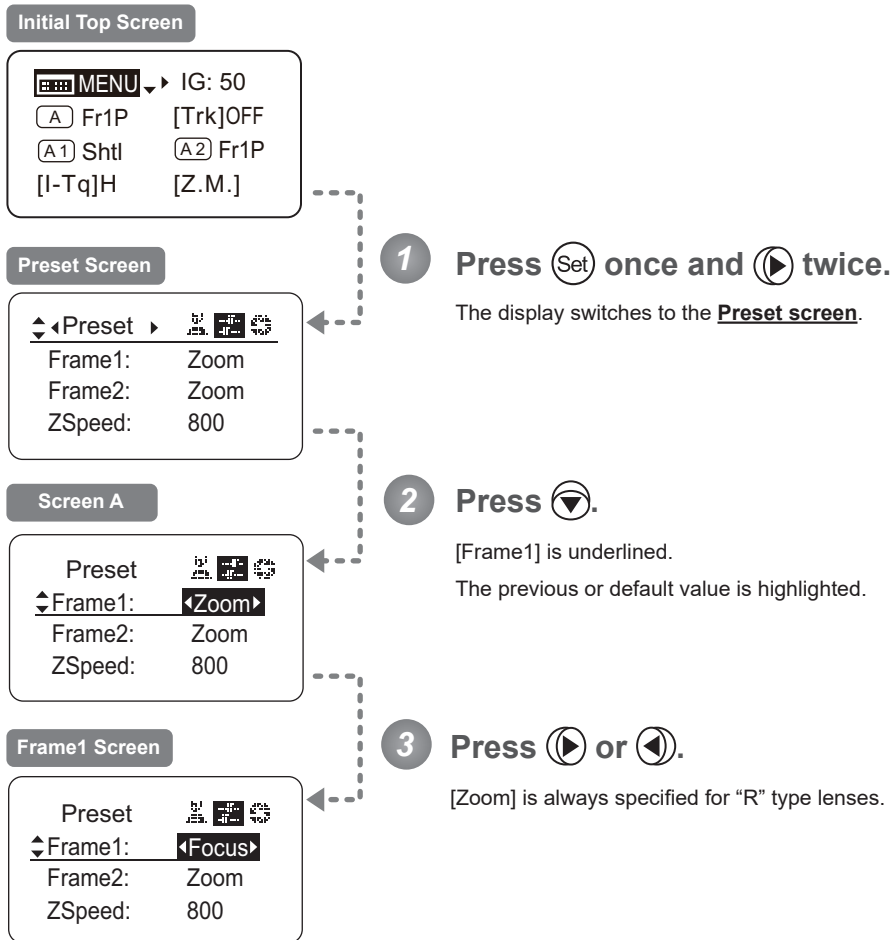
Switching What Frame Preset 2 Controls

Specifying the Preset Mode Zoom Speed

Switching What Frame Preset 1 Controls

Switch what frame preset 1 controls, as needed.

- Zoom : Move the zoom position to the position in memory
- Focus : Move the focus position to the position in memory
- Z+F : Move the zoom and focus position to the position in memory



| Options | ^(D) Zoom | Focus | Z+F |
|--------------------|---------------------|------------------|------------------------------|
| Description | Control zooming | Control focusing | Control zooming and focusing |

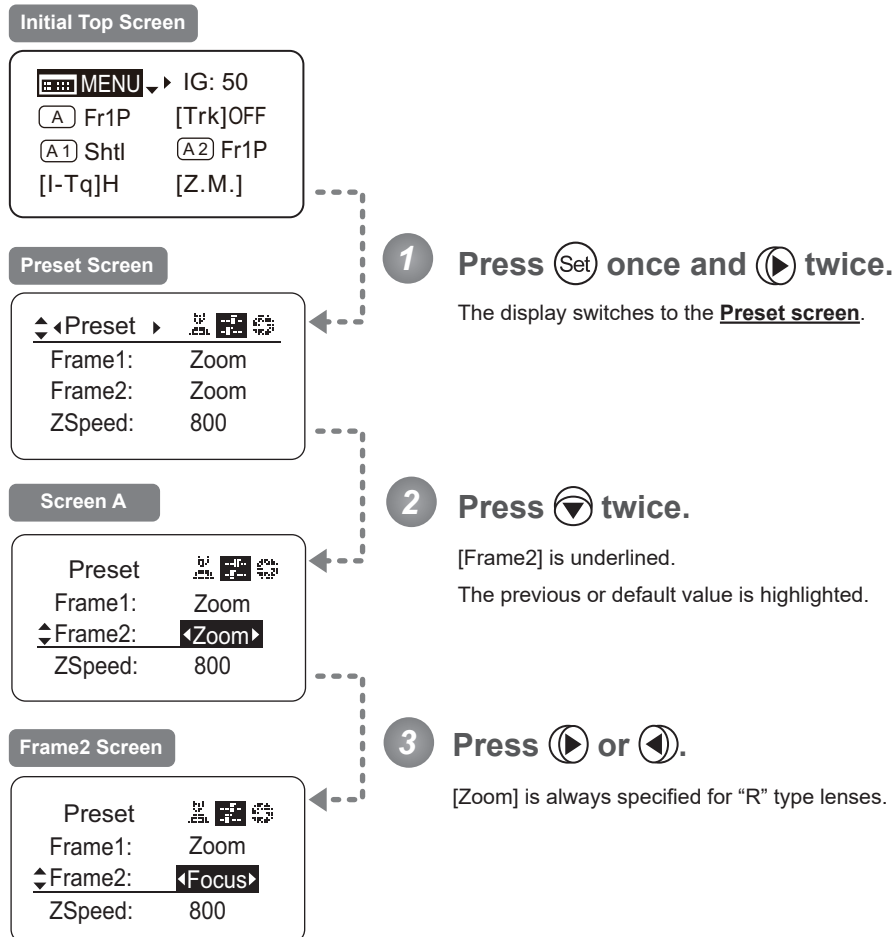
(D): Default value



Switching What Frame Preset 2 Controls

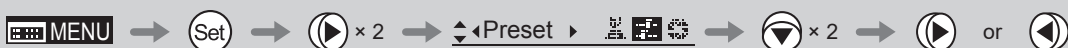
Switch what frame preset 2 controls, as needed.

- Zoom : Move the zoom position to the position in memory
- Focus : Move the focus position to the position in memory
- Z+F : Move the zoom and focus position to the position in memory



| Options | ^(D) Zoom | Focus | Z+F |
|-------------|---------------------|------------------|------------------------------|
| Description | Control zooming | Control focusing | Control zooming and focusing |

(D): Default value

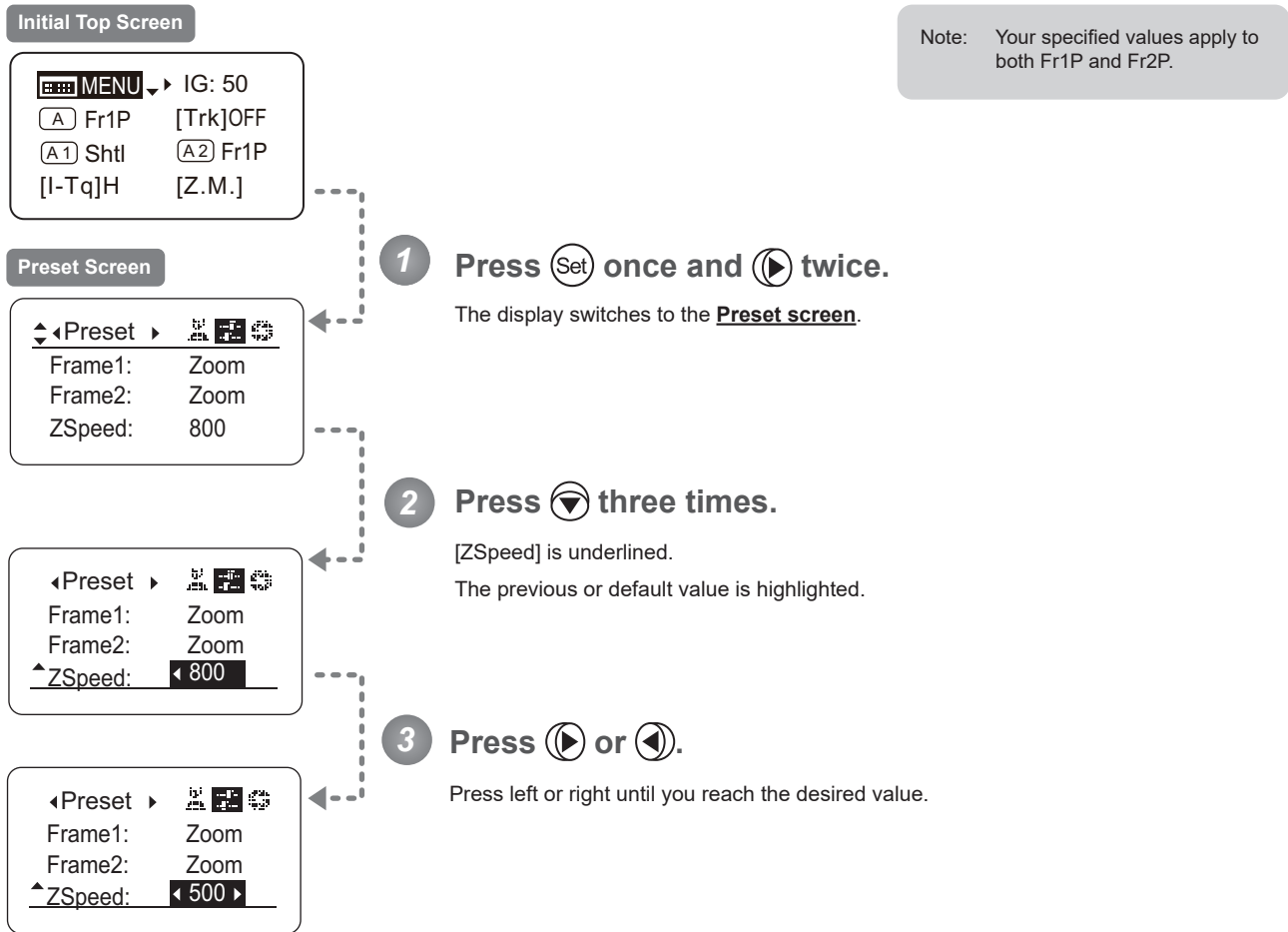


Specifying the Preset Mode Zoom Speed

Configure the zoom speed from any position to the position in memory, as needed.

To adjust the value, use either the Memo button (refer to the operation manual “Lens”) or display operations.

Regardless of the method of adjustment used, the most recent setting takes precedence.



| | | | |
|-------------|---------|----|---------|
| Options | 1 | to | (D) 800 |
| Description | Slowest | | Fastest |

(D): Default value



3.2.4 Iris Screen Settings

The following setting items can be configured on the Iris screen.

Specifying Iris Gain

(1) Specifying Auto Iris Gain

Top

(2) Specifying Remote Iris Gain

Specifying Iris Torque

Top

Iris Compensation ON/OFF

Iris Close Detection ON/OFF

Items labeled **Top** can also be modified from the Top screen.

Specifying Iris Gain

(1) Specifying Auto Iris Gain

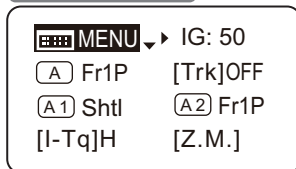
Top

Although this value is factory-set, it can be adjusted as needed.

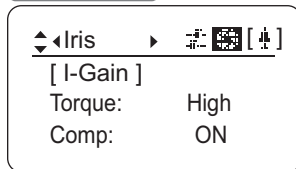
To adjust the value, use either the auto iris gain adjustment trimmer (refer to the operation manual “Lens”) or display operations. Regardless of the method of adjustment used, the most recent setting takes precedence.

The same auto iris gain value applies to all users.

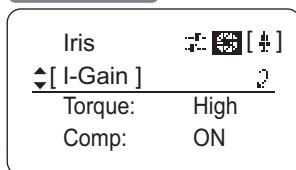
Initial Top Screen



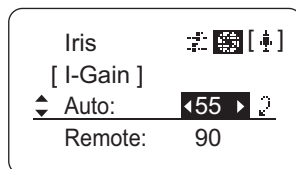
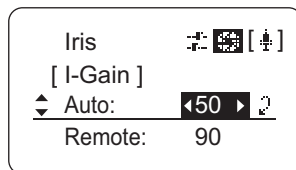
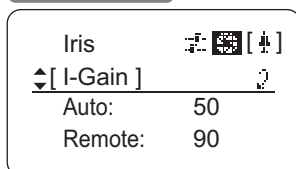
Iris Screen



Screen A



[I-Gain] Screen



1 Press **Set** once and **Play** three times.

The display switches to the Iris screen.

2 Press **Down Arrow**.

[I-Gain] is underlined.

3 Press **Set**.

The display switches to the [I-Gain] screen.

4 Press **Down Arrow**.

[Auto] is underlined.

The previous or default value is highlighted.

5 Press **Play** or **Left Arrow**.

Press left or right until you reach the desired function.

6 Press **Set**.

The display reverts to Screen A.

Note: Do the following when adjusting gain while checking iris operation.

- Confirm that the drive unit A/M switch is set to [Auto] mode.
- Set the camera iris mode to [Auto].

Note: As you look at the lens iris ring, set it to the position of maximum gain at which “focus hunting” does not occur.

Note: The current iris gain value is retained even if you reset other settings as described in “3.2.1 Resetting Values.” For this reason, you will no longer be able to view the default setting. If necessary, make a note of the default setting before adjusting this value.

| | | | |
|-------------|--------------|----|--------------|
| Options | 01 | to | 99 |
| Description | Minimum gain | | Maximum gain |

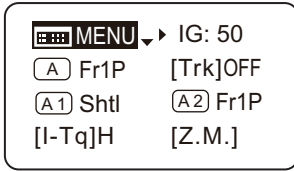
Default: Varies depending on the factory-set value, but corresponds to the value determined with the iris gain adjustment trimmer.



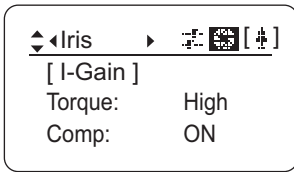
(2) Specifying Remote Iris Gain

Although this value is factory-set, it can be adjusted as needed.
The same remote iris gain value applies to all users.

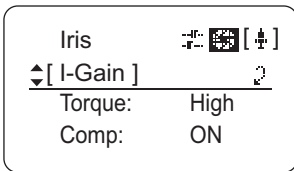
Initial Top Screen



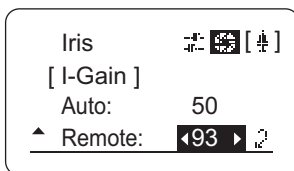
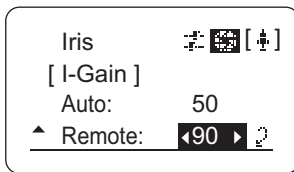
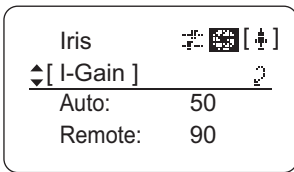
Iris Screen



Screen A



[I-Gain] Screen



1 Press **Set** once and **Play** three times.

The display switches to the **Iris screen**.

2 Press **Down Arrow**.

[I-Gain] is underlined.

3 Press **Set**.

The display switches to the **[I-Gain] screen**.

4 Press **Down Arrow** twice.

[Remote] is underlined.
The previous or default value is highlighted.

5 Press **Play** or **Left Arrow**.

Press left or right until you reach the desired function.

6 Press **Set**.

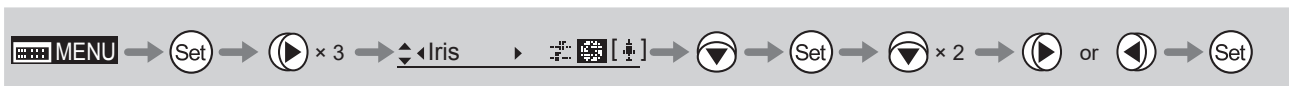
The display reverts to **Screen A**.

Note: Do the following when adjusting gain while checking iris operation.
→ Confirm that the drive unit A/M switch is set to [Auto] mode.
→ Set the camera iris mode to [Remote].

Note: The current iris gain value is retained even if you reset other settings as described in "3.2.1 Resetting Values." For this reason, you will no longer be able to view the default setting. If necessary, make a note of the default setting before adjusting this value.

| | | | |
|-------------|--------------|----|--------------|
| Options | 01 | to | 99 |
| Description | Minimum gain | | Maximum gain |

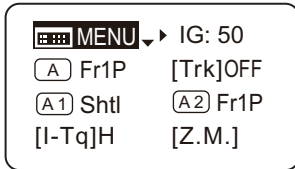
Default value: 90



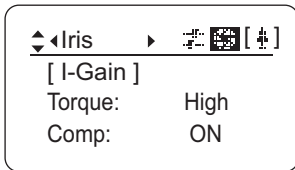
Specifying Iris Torque Top

Specify the desired level of torque in manual control of the iris ring.

Initial Top Screen



Iris Screen



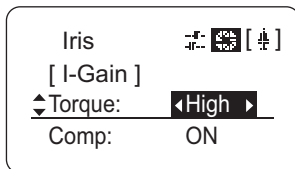
1 Press once and three times.

The display switches to the **Iris screen**.

2 Press twice.

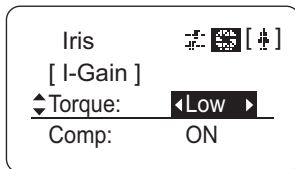
[Torque] is underlined.

The previous or default function is highlighted.



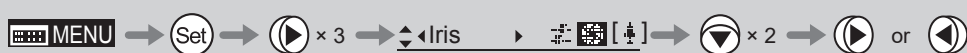
3 Press or .

Press left or right to switch the function to {High} or {Low}.



| Options | ^(D) High | Low |
|-------------|---------------------|------------|
| Description | High torque | Low torque |

(D): Default value



Iris Compensation ON/OFF

The amount of light decreases when an extender (2.0×) is used. Therefore, you can set a function that corrects the iris to the open side so as to maintain the amount of light.

Initial Top Screen

```

MENU ▾ IG: 50
(A) Fr1P [Trk]OFF
(A1) Shtl (A2) Fr1P
[I-Tq]H [Z.M.]
    
```

Iris Screen

```



◀ Iris ▶ [I-Gain]
Torque: High
Comp: ON
    
```


```



Iris [I-Gain]
Torque: High
◀ Comp: ON ▶
*Close: OFF
    
```

```

Iris [I-Gain]
Torque: High
◀ Comp: OFF ▶
    
```

1 Press  once and  three times.
 The display switches to the **iris screen**.

2 Press  three times.
 [Comp] is underlined.
 The previous or default function is highlighted.

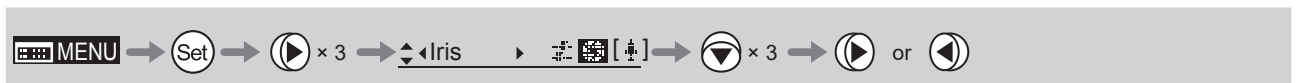
3 Press  or .
 Press left or right to switch the function {ON} or {OFF}.

*: Displayed when {Comp} is set to ON.

Note: The iris may not fully close in some cases when the iris compensation is set to ON while an extender (2.0×) is used. If so, activate detection as described in "Iris Close Detection ON/OFF."

| Options | ^(D) ON | OFF |
|-------------|-------------------|----------------------|
| Description | Iris compensation | No iris compensation |

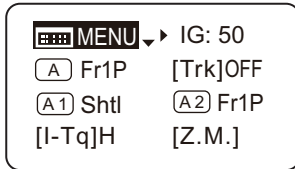
(D): Default value



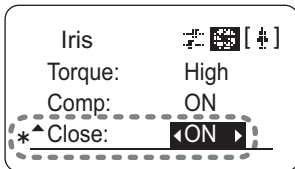
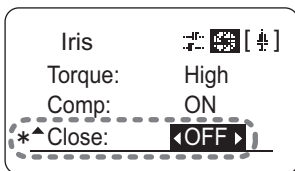
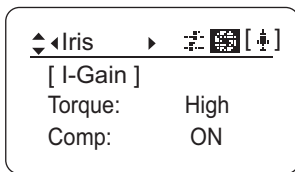
Iris Close Detection ON/OFF

The iris cannot be fully closed when correction is active and an extender (2.0×) is used. As a countermeasure, you can specify a function to detect iris close and close the iris as needed.

Initial Top Screen



Iris Screen



1 Press **Set** once and **Play** three times.

The display switches to the Iris screen.

2 Press **Down Arrow** four times.

[Close] is underlined.

The previous or default function is highlighted.

3 Press **Play** or **Left Arrow**.

Press left or right to switch the function {ON} or {OFF}.

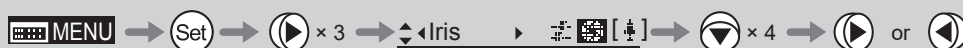
Note: With some cameras, iris compensation may conflict with iris control by the camera, preventing correct iris close detection. If so, deactivate iris close detection.

*: Displayed when {Comp} is set to ON.

Note: Iris close is detected only when iris compensation is enabled.

| Options | ^(D) OFF | ON |
|-------------|--------------------|-----------------|
| Description | No close detection | Close detection |

(D): Default value



3.2.5 Zoom Screen Settings

The following setting items can be configured on the Zoom screen.

Specifying Seesaw Switch Responsiveness

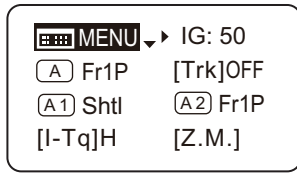
Specifying Analog Demand Responsiveness

Demand-Based Zoom Speed Adjustment ON/OFF

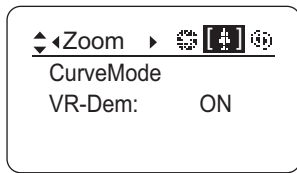
Specifying Seesaw Switch Responsiveness

Configure the responsiveness of zoom speed adjustment in response to pressing the zoom seesaw switch.
 (Note: Another screen is displayed when this setting is configured.)

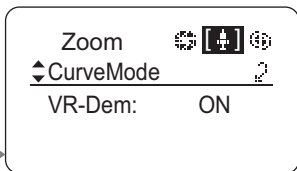
Initial Top Screen



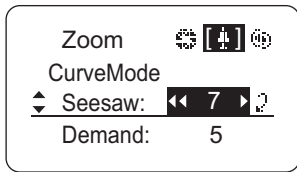
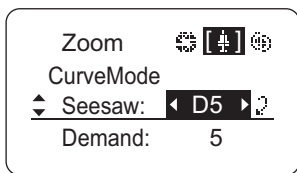
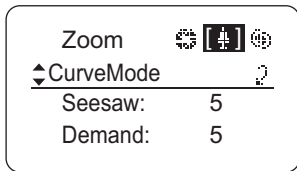
Zoom Screen



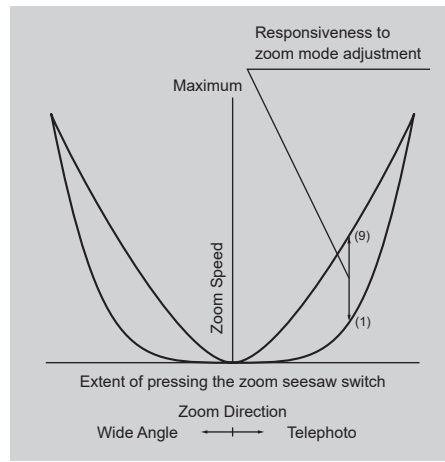
Screen A



CurveMode Screen



- 1 Press **Set** once and **Play** four times.
The display switches to the **Zoom screen**.
- 2 Press **Down Arrow**.
[CurveMode] is underlined.
- 3 Press **Set**.
The display switches to the **CurveMode screen**.
- 4 Press **Down Arrow**.
[Seesaw] is underlined.
The previous or default value is highlighted.
- 5 Press **Play** or **Left Arrow**.
Press left or right until you reach the desired function.
- 6 Press **Set**.
The display reverts to **Screen A**.



| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

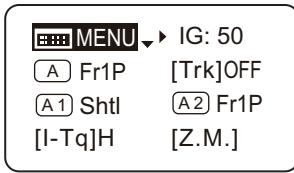
(D): Default value



Specifying Analog Demand Responsiveness

Configure the responsiveness of zoom speed adjustment in response to pressing the analog demand thumb ring.
 (Note: Another screen is displayed when this setting is configured.)

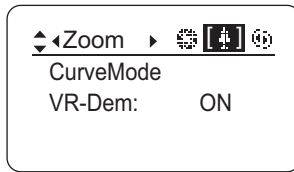
Initial Top Screen



1 Press **Set** once and **▶** four times.

The display switches to the **Zoom screen**.

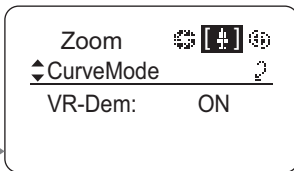
Zoom Screen



2 Press **▼**.

[CurveMode] is underlined.

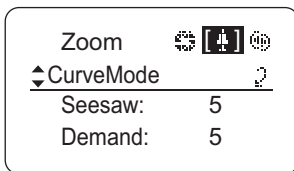
Screen A



3 Press **Set**.

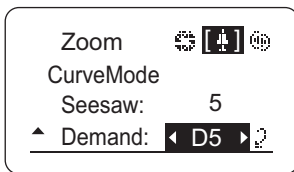
The display switches to the **CurveMode screen**.

CurveMode Screen



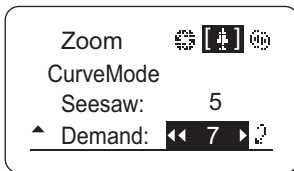
4 Press **▼** twice.

[Demand] is underlined.
 The previous or default value is highlighted.



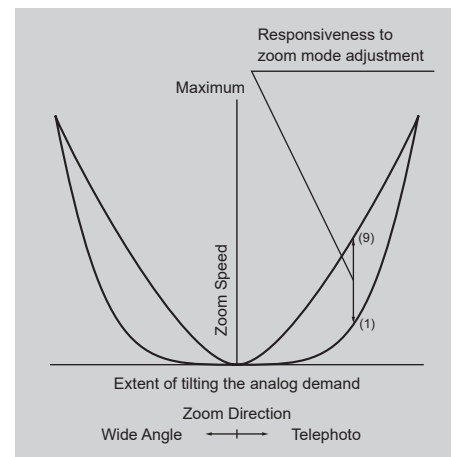
5 Press **▶** or **◀**.

Press left or right until you reach the desired function.



6 Press **Set**.

The display reverts to **Screen A**.



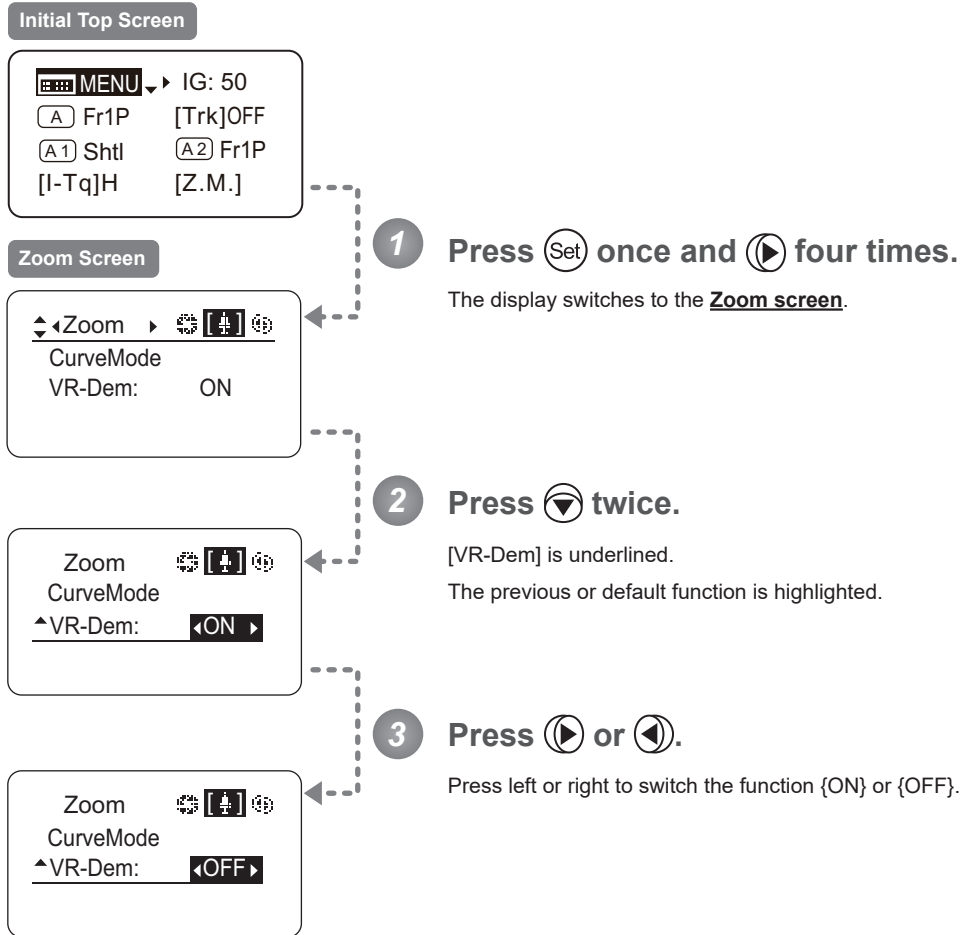
| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

(D): Default value



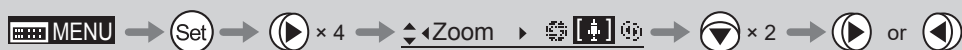
Demand-Based Zoom Speed Adjustment ON/OFF

Enable or disable adjustment of the maximum drive unit zoom speed based on the zoom demand.



| Options | ^(D) ON | OFF |
|-------------|-------------------|----------|
| Description | Enabled | Disabled |

(D): Default value



3.2.6 Focus Screen Settings

The following setting items can be configured on the **Focus screen**.

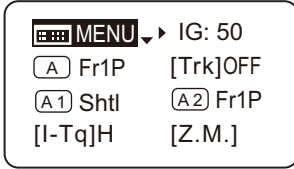
Specifying Focus Demand Responsiveness (“A” Type Lenses Only)

Specifying Focus Demand Responsiveness (“A” Type Lenses Only)

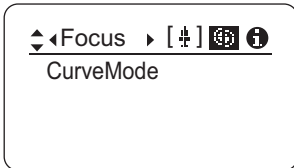
Specify responsiveness in analog focus demand operations as needed.

Note: These settings take effect when the curve selection switch on the focus demand is set toward FAR.

Initial Top Screen



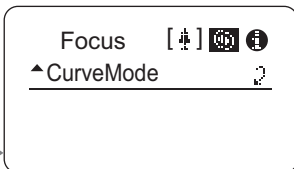
Focus Screen



1 Press **Set** once and **Left Arrow** three times.

The display switches to the **Focus screen**.

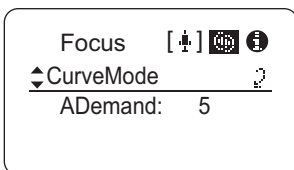
Screen A



2 Press **Down Arrow**.

[CurveMode] is underlined.

CurveMode Screen

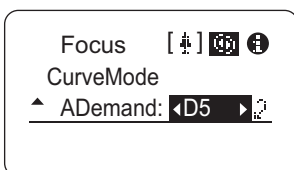


3 Press **Set**.

The display switches to the **CurveMode screen**.

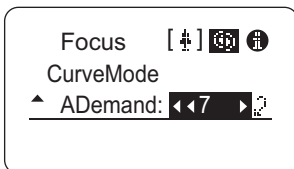
4 Press **Down Arrow**.

[ADemand] is underlined.
The previous or default value is highlighted.



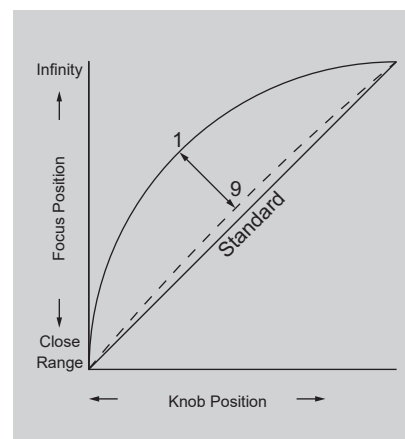
5 Press **Right Arrow** or **Left Arrow**.

Press left or right until you reach the desired function.



6 Press **Set**.

The display reverts to **Screen A**.



| Options | 1 | to | 9 |
|-------------|-------------|----|-------------|
| Description | Large curve | | Small curve |

Default value: 5



3.2.7 Info Screen Settings

The following setting items can be configured on the **Info screen**.

Specifying the 3D Function (For information on specifying the 3D function, see the instruction manual of the BC-100 3D cable.)

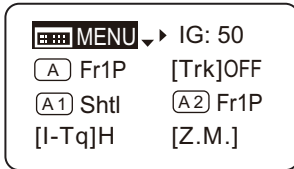
Specifying Encoder Output

Serial Communication with Camera ON/OFF

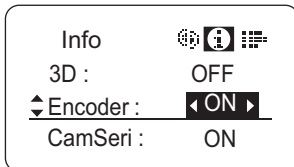
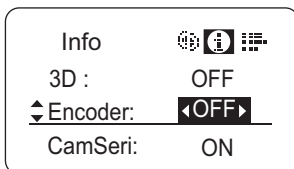
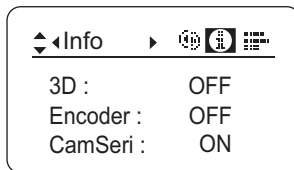
Specifying Encoder Output

Enable or disable encoder output as needed. Enabling output enables virtual connector output. For details, contact Canon or your dealer.

Initial Top Screen



Info Screen



1 Press **Set** once and **Left Arrow** twice.

The display switches to the **Info screen**.

2 Press **Down Arrow** twice.

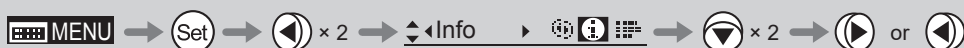
[Encoder] is underlined.

3 Press **Right Arrow** or **Left Arrow**.

Press left or right to switch the function {ON} or {OFF}.

| Options | ^(D) OFF | ON |
|-------------|--------------------|----------------|
| Description | Output disabled | Output enabled |

(D): Default value

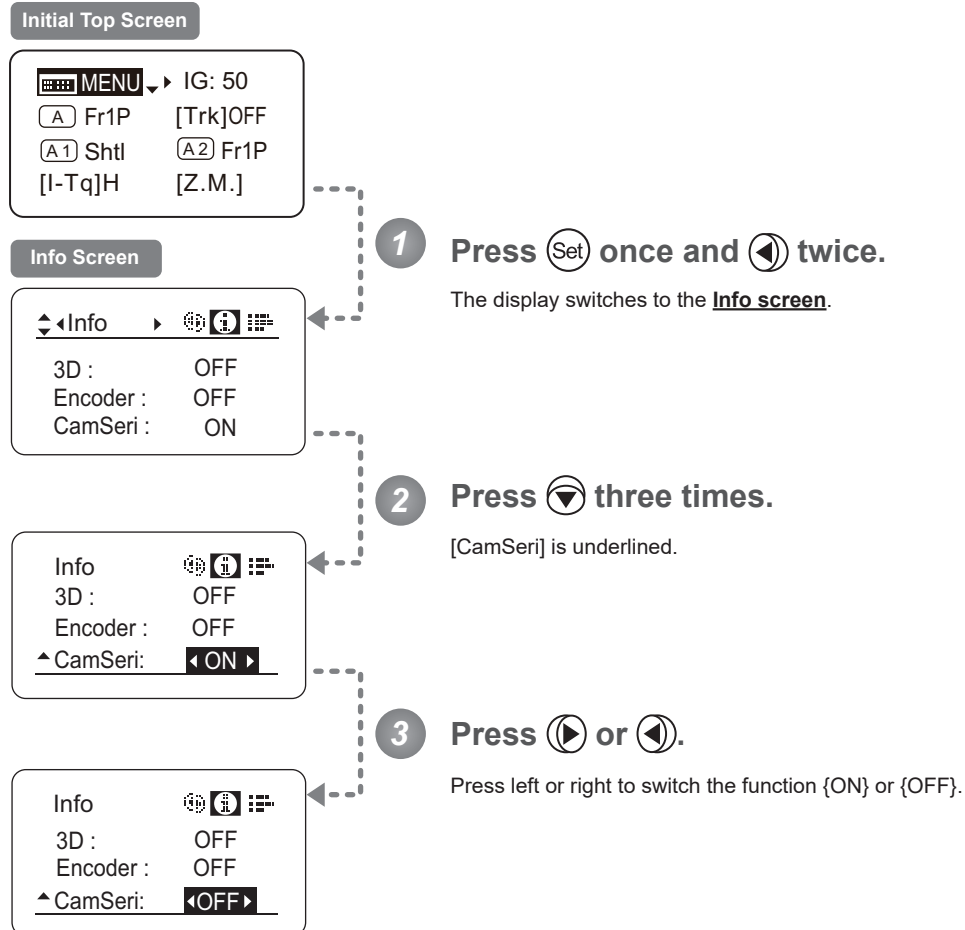


Serial Communication with Camera ON/OFF

Two types of camera–lens interfaces are available: analog control or control via serial communication. This setting enables you to switch between auto control detection and analog control.

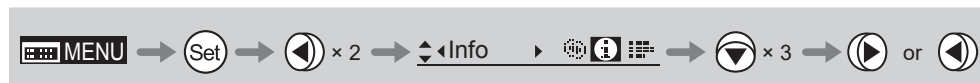
By default, this setting is ON, enabling auto detection of whether serial or analog control is used.

To restrict the interface to analog control, set it to OFF.



| Options | ^(D) ON | OFF |
|-------------|--|---|
| Description | Serial communication with the camera Enabled | Serial communication with the camera Disabled |

(D): Default value



3.2.8 Fol. Screen Settings

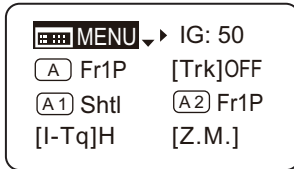
The following setting items can be configured on the **Fol. screen**.

Viewing Lens Follow Settings (Iris, Zoom, Focus)

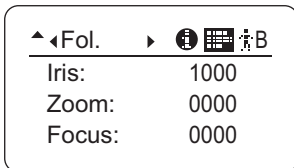
Viewing Lens Follow Settings (Iris, Zoom, Focus)

Indicates values in the full range of mechanical iris, zoom, and focus operations, expressed as relative values in the range of 0–1000.

Initial Top Screen



Fol. Screen



1

Press **Set** and then **◀**.

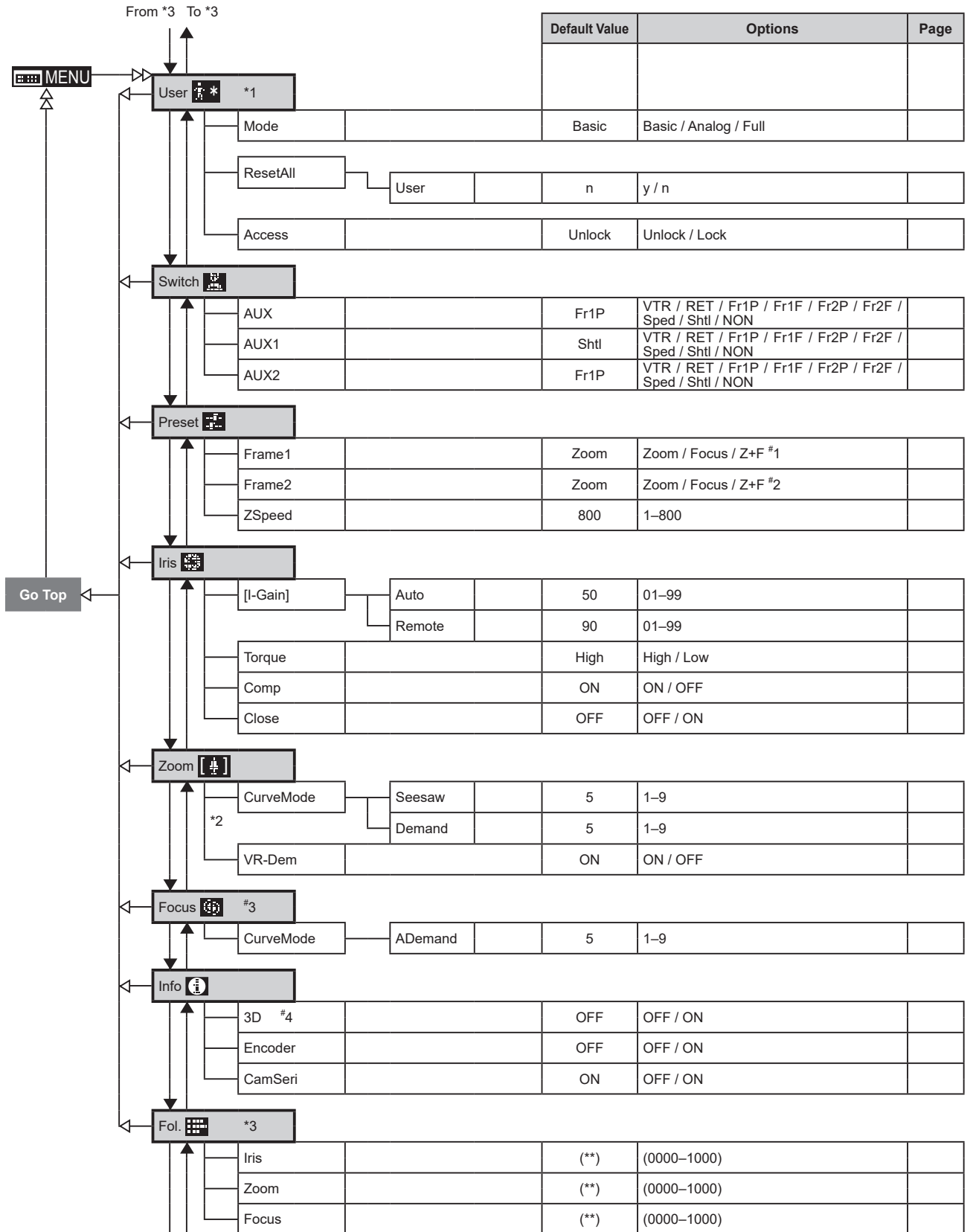
The display switches to the **Fol. screen**, showing relative follow iris, zoom, and focus values.

Note: As long as the **Fol. screen** is shown, the display will not turn off automatically after 2 minutes if left idle. To turn off the display, press the Display switch.



3.3 List of Settings

| | | Default Value | Options | Page |
|--|-------------------------------|---|---|------|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">Top</div> | | | | |
| | MENU | | To *1 on the next page | |
| | IG | 50 | 01-99 | |
| | [A] | Fr1P | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl / NON | |
| | [Trk] | OFF | OFF / ON | |
| | [A 1] | Shtl | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl / NON | |
| | [A 2] | Fr1P | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl / NON | |
| | [I-Tq] | H | H / L | |
| | [Z.M.] | | | |
| | | | To *2 on the next page | |
| Escape Operation | Jump to user 0 setting status | Hold down both the Display switch and Set key for at least 2 seconds. | | |



<<- : Set key operation ↓ : Right key operation
 ← : Up key operation ↑ : Left key operation

#1-2 : Only Zoom is shown for "R" type lenses.
 #3 : Not shown for "R" type lenses.
 #4 : For information on specifying the 3D communication, see the "3D Cable Instruction Manual."
 () : Indicates values that cannot be changed.

Memo

4

Operation in Full Mode

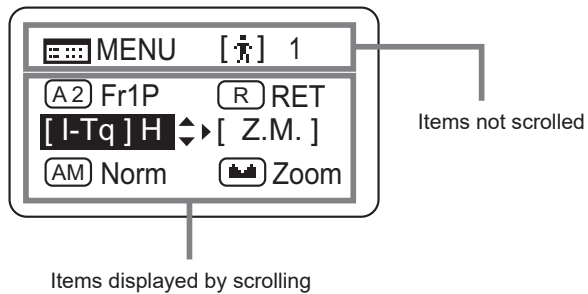
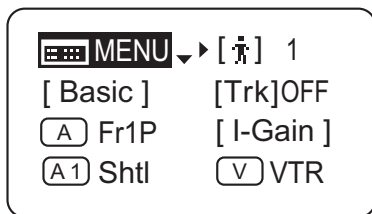
4. Operation in Full Mode

4.1 Configuration from the Top Screen

To access the **Top screen**, press the Display switch.

A total of 14 items can be configured on the **Top screen** in Full mode. The first screen displayed is referred to as the **Initial Top screen**. Status of some items can be checked simply by accessing this screen.

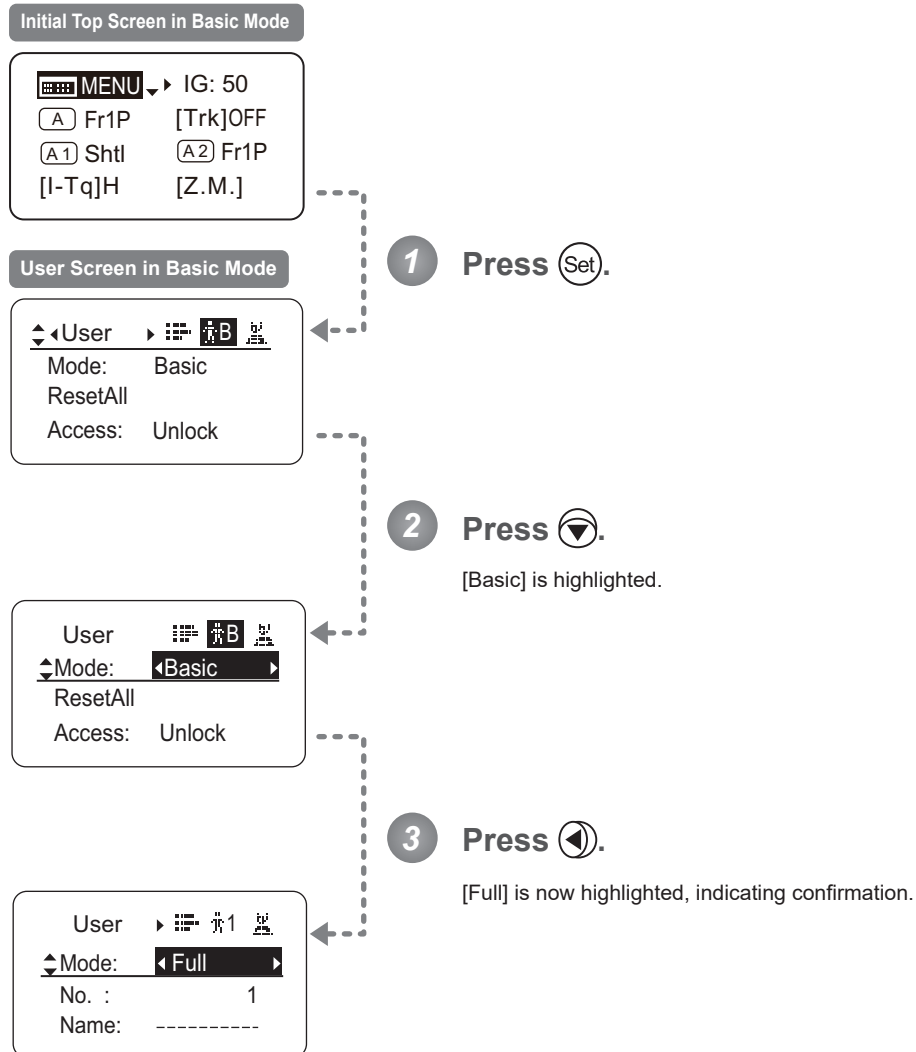
Initial Top Screen in Full Mode



4.1.1 Selecting Full Mode

Basic mode is the default mode, but Full mode can be accessed as follows.

Switching from Basic to Full Mode

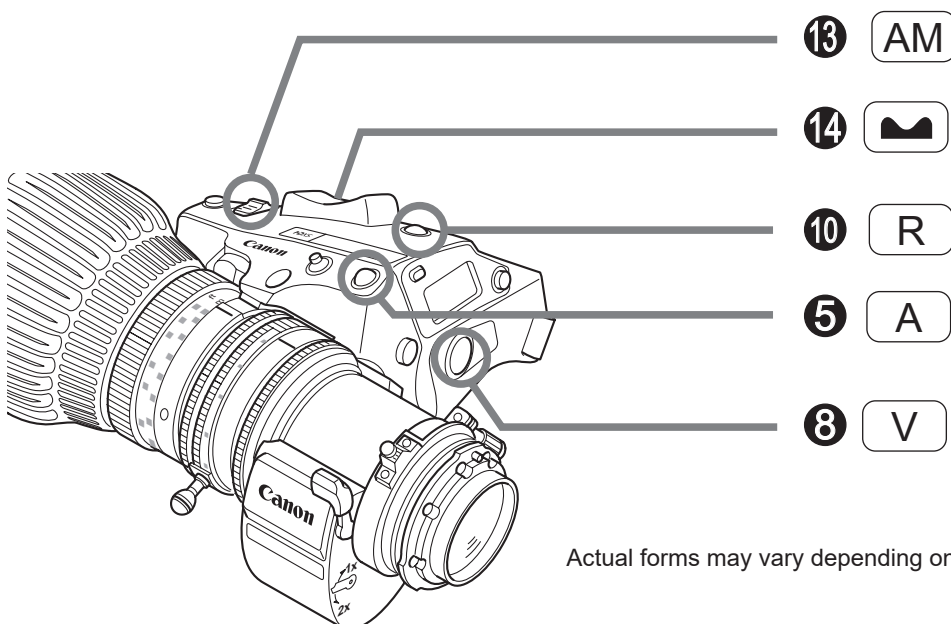
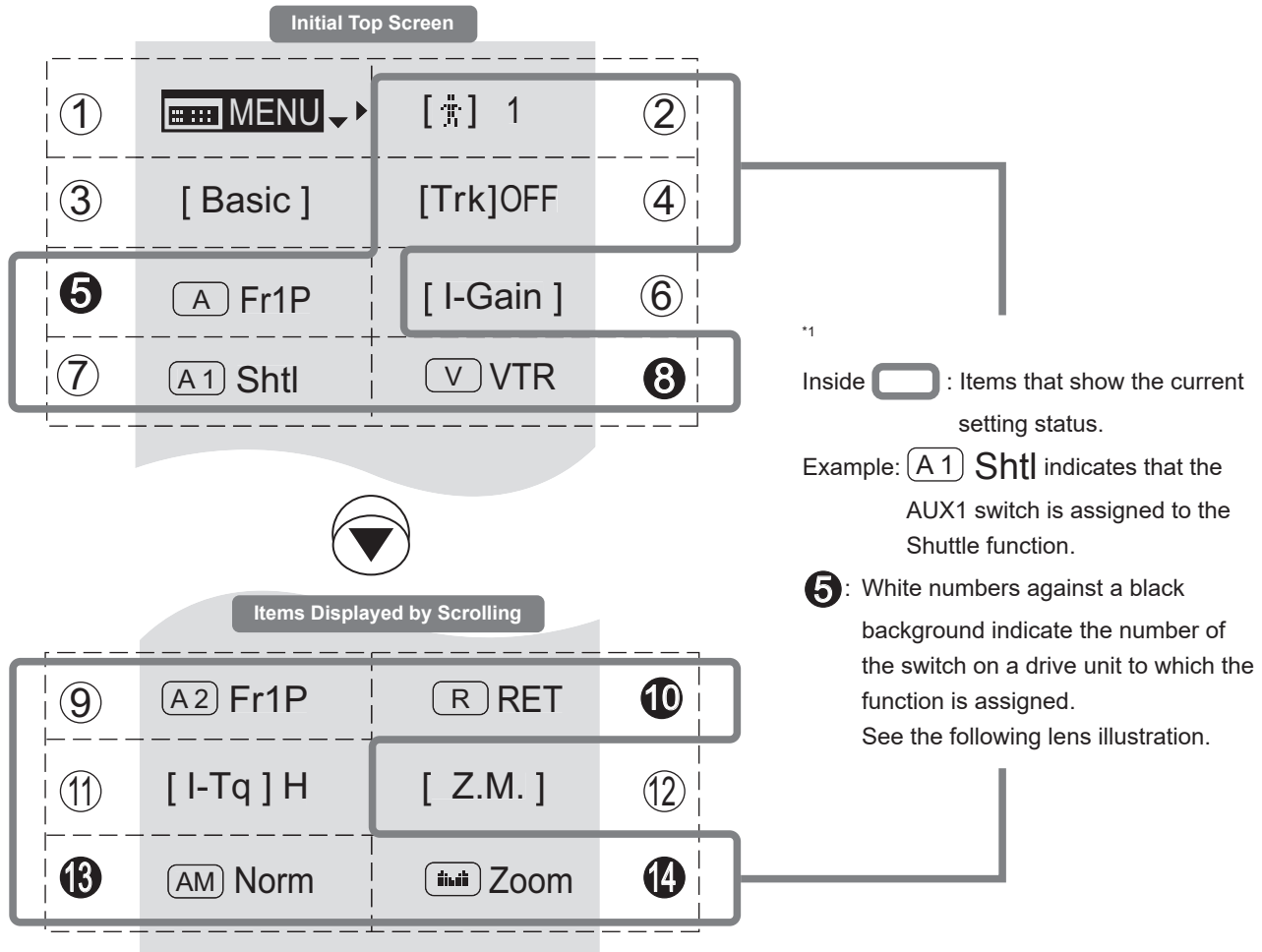


4.1.2 Top Screen

A total of 14 items can be configured on the **Top screen** in Full mode, and 8 items are shown on the **Initial Top screen**. The other 6 can be accessed by pressing down to scroll down the screen.

(See the following figure.)

Status of some items can be checked simply by accessing this screen. (Shown in the figure below.^{*1})



Actual forms may vary depending on models and specifications.

① **Menu screen**

See “4.2 Configuration from the Menu Screen.”

② **User**

Adjust settings for up to ten users (0–9), to distinguish settings by user. Switch users from this screen, either to use or change the settings.

See “4.1.3 Switching Users.”

③ [Basic] **Switching to Basic Mode**

Switch to Basic mode as needed.

See “4.1.4 Switching to Basic Mode.”

④ [Trk] **Zoom tracking**

Switch to ON when using zoom tracking.

See “4.1.5 Zoom Tracking ON/OFF.”

⑤ **AUX switch**

By default, the AUX switch for a drive unit is assigned to the “Frame Preset 1” function, but it can be reassigned as needed.

See “4.1.6 Assigning Functions to the AUX Switch.”

⑥ [I-Gain] **Iris gain**

Adjust the auto iris gain or the remote iris gain value as needed.

See “4.1.7 Specifying Iris Gain.”

⑦ **AUX1 switch**

By default, the AUX1 switch for a zoom demand is assigned to the {Shuttle} function, but it can be reassigned as needed.

See “4.1.8 Assigning Functions to the AUX1 Switch.”

⑧ **VTR switch**

By default, the VTR switch for a drive unit is assigned to the {VTR} function, but it can be reassigned as needed.

See “4.1.9 Assigning Functions to the VTR Switch.”

⑨ **AUX2 switch**

By default, the AUX2 switch for a zoom demand is assigned to the {Frame Preset 1} function, but it can be reassigned as needed.

See “4.1.10 Assigning Functions to the AUX2 Switch.”

⑩ **RET switch**

By default, the RET switch for a drive unit is assigned to the {Return} function, but it can be reassigned as needed.

See “4.1.11 Assigning Functions to the RET Switch.”

⑪ [I-Tq] **Iris torque**

Adjust the level of torque in manual control of the iris ring as needed.

See “4.1.12 Specifying Iris Torque.”

⑫ [Z.M.] **Zoom curve mode**

Adjust zoom speed in response to pressing the zoom seesaw switch or tilting the analog demand thumb ring.

See “4.1.13 Specifying Zoom Curve Mode.”

⑬ **Iris A/M switch**

Adjust movement of the iris A/M switch on the drive unit.

See “4.1.14 Specifying Iris A/M Switch.”

⑭ **Seesaw**

Enable iris control using the zoom seesaw switch.

See “4.1.15 Assigning Functions to the Seesaw.”

4.1.3 Switching Users



Settings for users 0–9 can be configured in Full mode.

User 1–9

Configure advanced settings for each user needed. Settings for the users can then be saved.

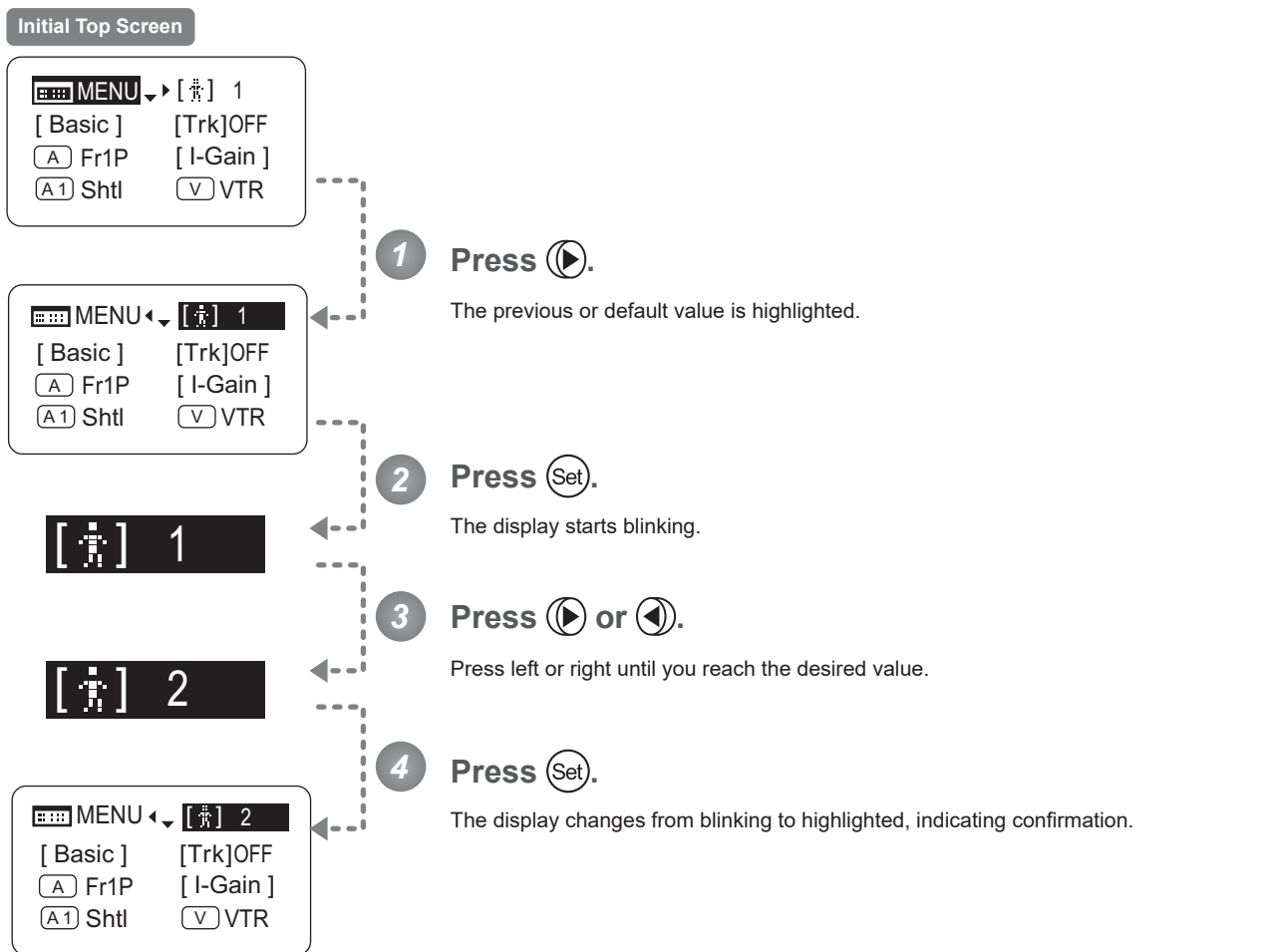
User 0

User 0 is the default user. Thus, for this user you can adjust settings temporarily but not save them.

Setting information is cleared when you switch to users 1–9 or turn the lens off. User 0 is used if you perform an escape operation. For details, see “4.1.16 Escape Operation.” Selecting user 0 restores the default settings, except for the auto and remote iris gain values and encoder output setting.

Switch to the desired user (0–9) from the **Top screen**.

Configure advanced settings for these users from the **Menu screen**. See “4.2 Configuration from the Menu Screen.”



| Options | 0 | (D) 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----------------------|--|----------------------------|---|---|---|---|---|---|---|---|
| Save Settings | Not supported Although settings cannot be saved, they can be changed temporarily. Switching users or turning the lens off will restore default values. | Can be saved for each user | | | | | | | | |

(D): Default value

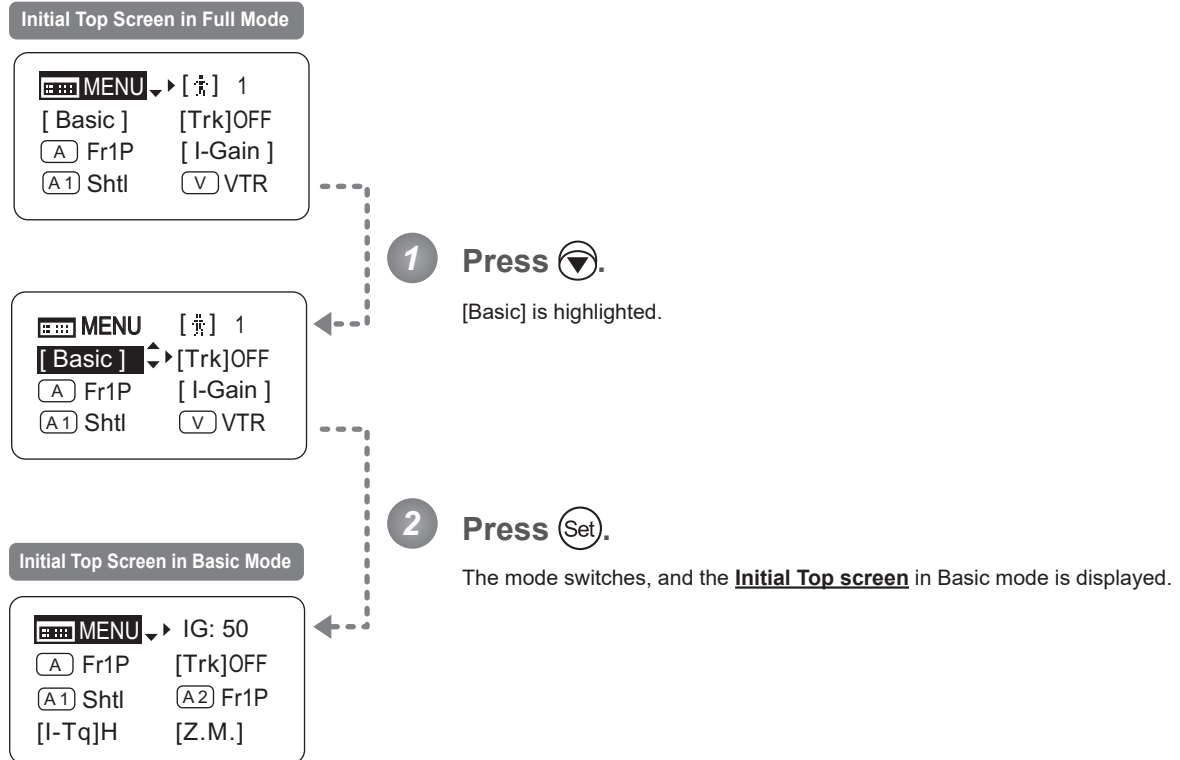


4.1.4 Switching to Basic Mode

[Basic]

Switch to Basic mode from the **Top screen** as needed.

Switching from Full to Basic Mode



4.1.5 Zoom Tracking ON/OFF

[Trk]

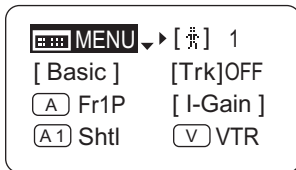
Activate or deactivate zoom tracking as needed.

Important

First, switch to the user for whom the settings apply.

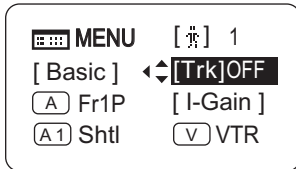
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press and then .

The previous or default value is highlighted.



2 Press .

The display starts blinking.

[Trk]OFF

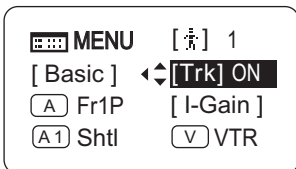
3 Press or .

Press left or right to switch the function {ON} or {OFF}.

[Trk]ON

4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | ^(D) OFF | ON |
|---------|--------------------|----|
|---------|--------------------|----|

(D): Default value



4.1.6 Assigning Functions to the AUX Switch

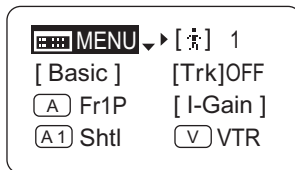
A

Assign your desired functions to the AUX switch.

Important

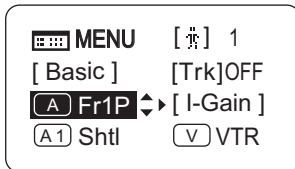
First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press twice.

The previous or default function is highlighted.



2 Press .

The display starts blinking.



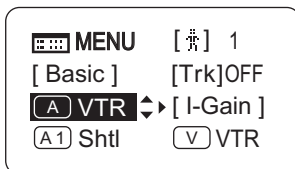
3 Press or .

Press left or right until you reach the desired function.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



4.1.7 Specifying Iris Gain

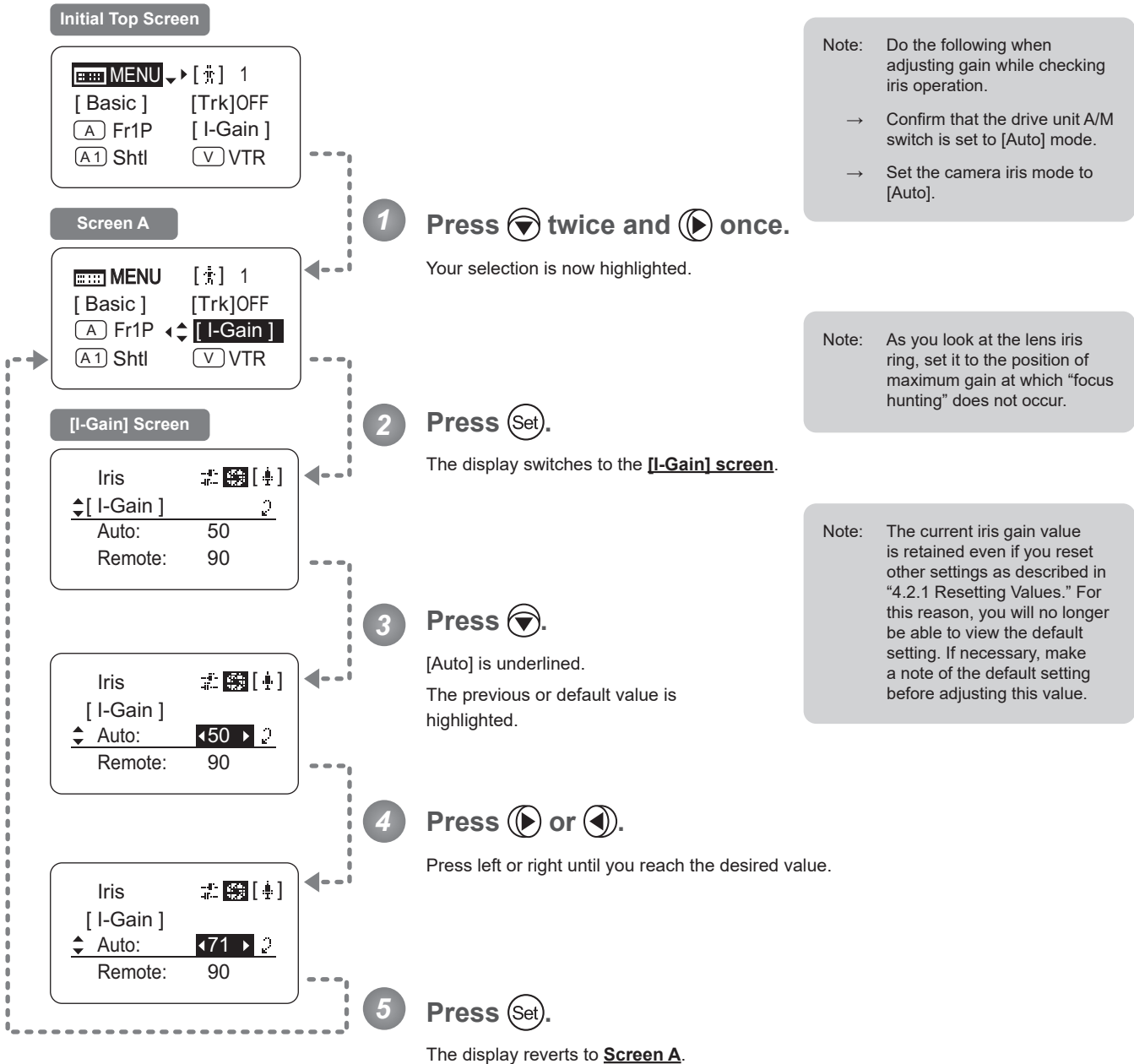
[I-Gain]

Specifying Auto Iris Gain

Although this value is factory-set, it can be adjusted as needed.

To adjust the value, use either the auto iris gain adjustment trimmer (refer to the operation manual “Lens”) or display operations. Regardless of the method of adjustment used, the most recent setting takes precedence.

The same auto iris gain value applies to all users, regardless of the current user. Thus, there is no need to switch users in advance. Unlike most other setting adjustments, any changes to this setting also apply to user 0.



| | | | |
|--------------------|--------------|----|--------------|
| Options | 01 | to | 99 |
| Description | Minimum gain | | Maximum gain |

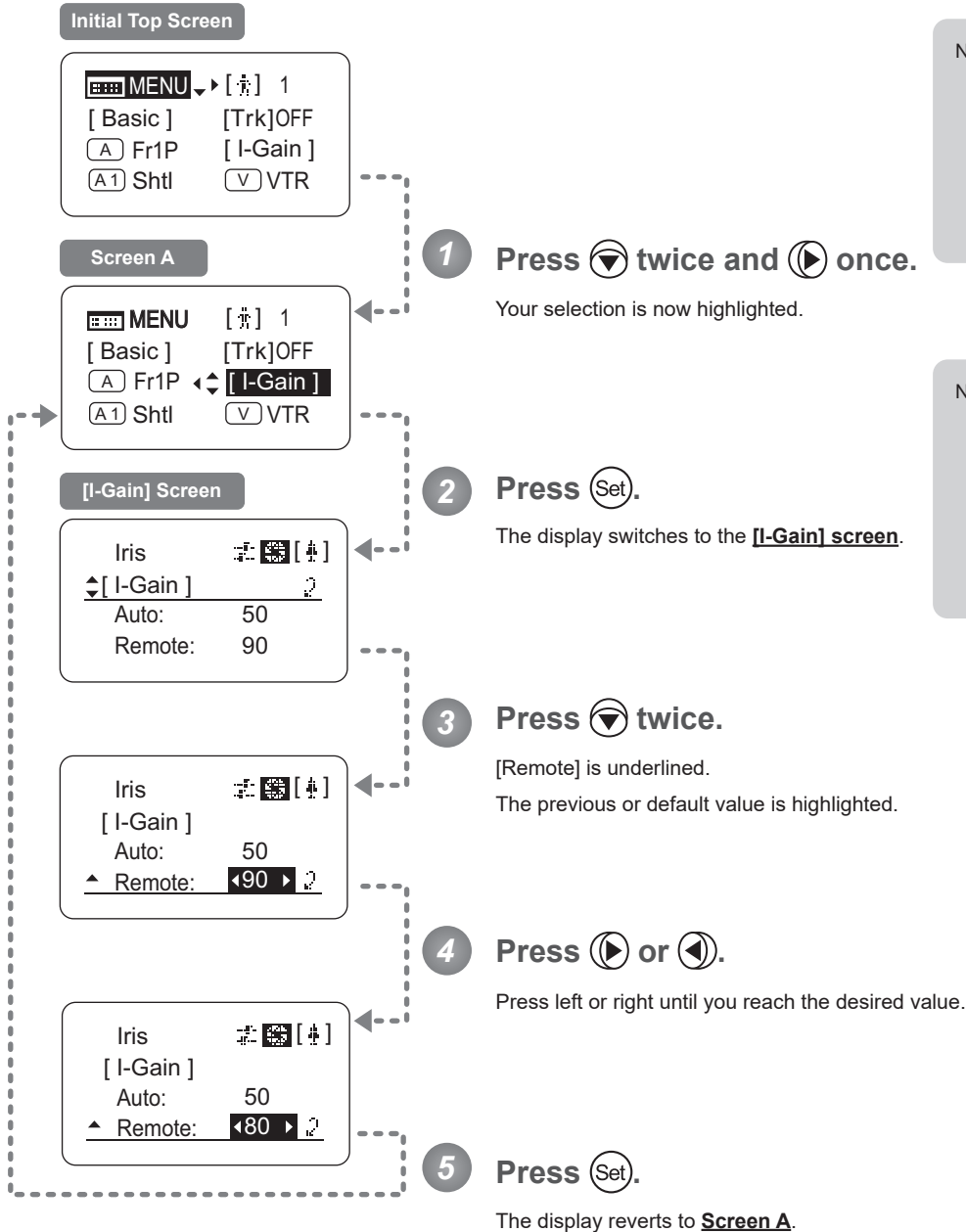
Default: Varies depending on the factory-set value, but corresponds to the value determined with the iris gain adjustment trimmer.



Specifying Remote Iris Gain

Although this value is factory-set, it can be adjusted as needed.

The same remote iris gain value applies to all users, regardless of the current user. Thus, there is no need to switch users in advance. Unlike most other setting adjustments, any changes to this setting also apply to user 0.



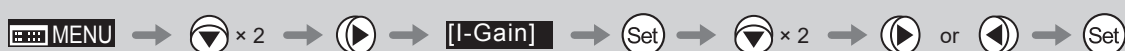
Note: Do the following when adjusting gain while checking iris operation.

- Confirm that the drive unit A/M switch is set to [Auto] mode.
- Set the camera iris mode to [Remote].

Note: The current iris gain value is retained even if you reset other settings as described in "4.2.1 Resetting Values." For this reason, you will no longer be able to view the default setting. If necessary, make a note of the default setting before adjusting this value.

| Options | 01 | to | 99 |
|-------------|--------------|----|--------------|
| Description | Minimum gain | | Maximum gain |

Default value: 90



4.1.8 Assigning Functions to the AUX1 Switch

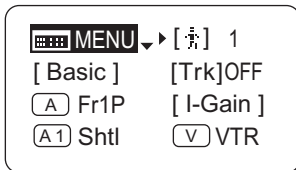
A1

Assign your desired functions to the AUX1 switch.

Important

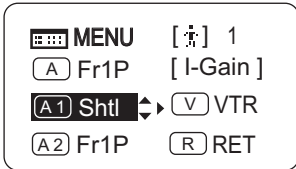
First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press three times.

The previous or default function is highlighted.



2 Press .

The display starts blinking.



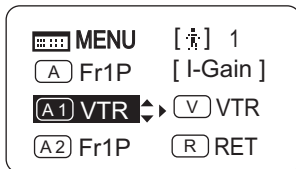
3 Press or .

Press left or right until you reach the desired function.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | Fr1P | Fr1F | Fr2P | Fr2F | Sped | ^(D) Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



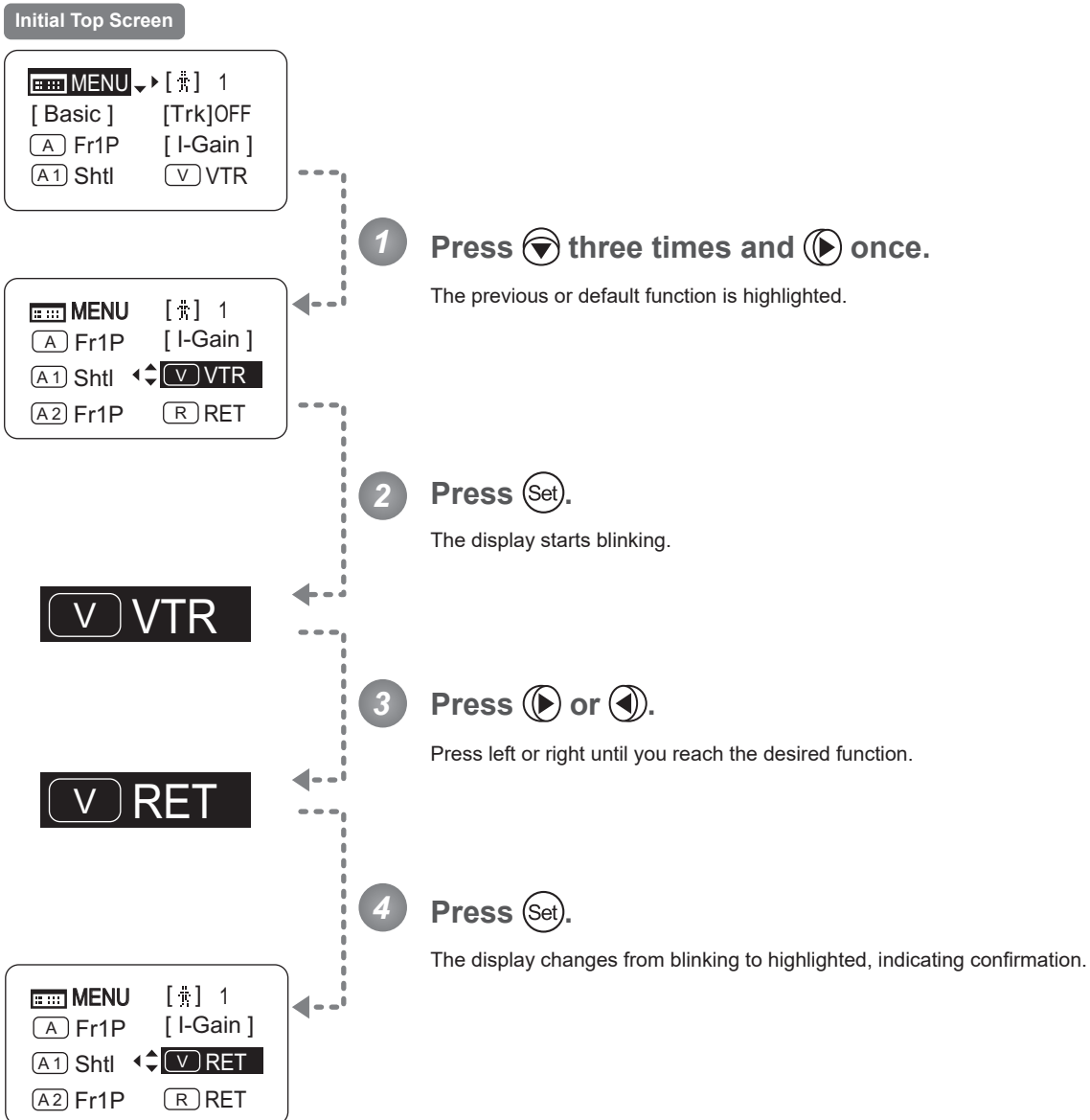
4.1.9 Assigning Functions to the VTR Switch



Assign your desired functions to the VTR switch.

Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| Options | ^(D) VTR | RET | Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl |
|--------------------|--------------------|------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|
| Description | VTR switch | RET switch | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch |

(D): Default value



4.1.10 Assigning Functions to the AUX2 Switch

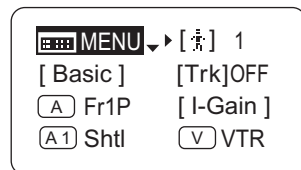
A2

Assign your desired functions to the AUX2 switch.

Important

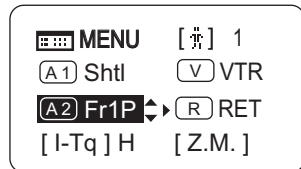
First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press four times.

The previous or default function is highlighted.



2 Press .

The display starts blinking.



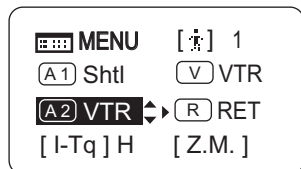
3 Press or .

Press left or right until you reach the desired function.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



4.1.11 Assigning Functions to the RET Switch

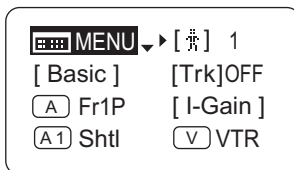
Assign your desired functions to the RET switch.

Important

First, switch to the user for whom the settings apply.

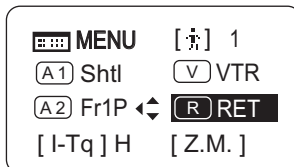
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press four times and once.

The previous or default function is highlighted.



2 Press .

The display starts blinking.



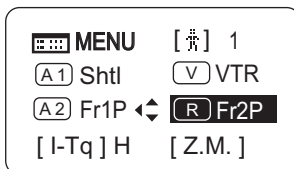
3 Press or .

Press left or right until you reach the desired function.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | VTR | ^(D) RET | Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl |
|-------------|------------|--------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|
| Description | VTR switch | RET switch | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch |

(D): Default value



4.1.12 Specifying Iris Torque

[I-Tq]

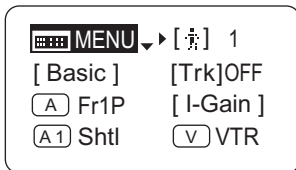
Specify the desired level of torque in manual control of the iris ring.

Important

First, switch to the user for whom the settings apply.

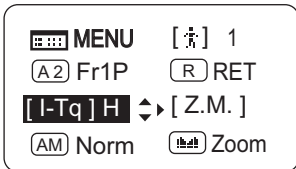
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press five times.

The previous or default function is highlighted.



2 Press .

The display starts blinking.

[I-Tq] H

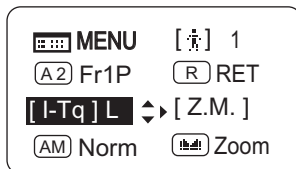
3 Press or .

Press left or right to switch the function to {H} or {L}.

[I-Tq] L

4 Press .

The display changes from blinking to highlighted, indicating confirmation.



| Options | ^(D) H | L |
|-------------|------------------|------------|
| Description | High torque | Low torque |

(D): Default value



4.1.13 Specifying Zoom Curve Mode

[Z.M.]

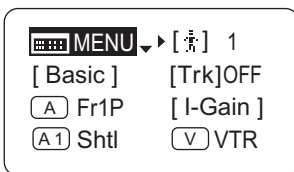
Specifying Seesaw Switch Responsiveness

Configure the responsiveness of zoom speed adjustment in response to pressing the zoom seesaw switch.
(Note: Another screen is displayed when this setting is configured.)

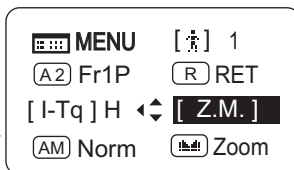
Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

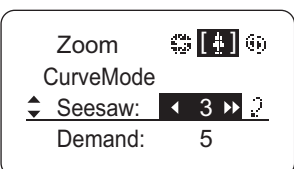
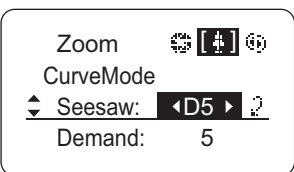
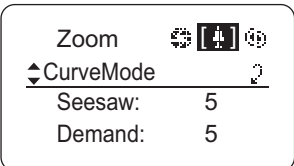
Initial Top Screen



Screen A



CurveMode Screen



1 Press five times and once.

Your selection is now highlighted.

2 Press .

The display switches to the **CurveMode screen**.

3 Press .

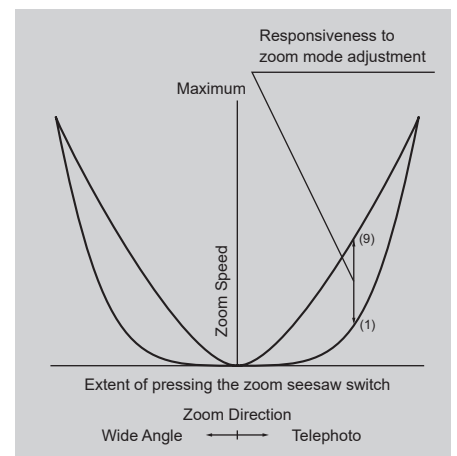
[Seesaw] is underlined.
The previous or default value is highlighted.

4 Press or .

Press left or right until you reach the desired value.

5 Press .

The display reverts to **Screen A**.



| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

(D): Default value

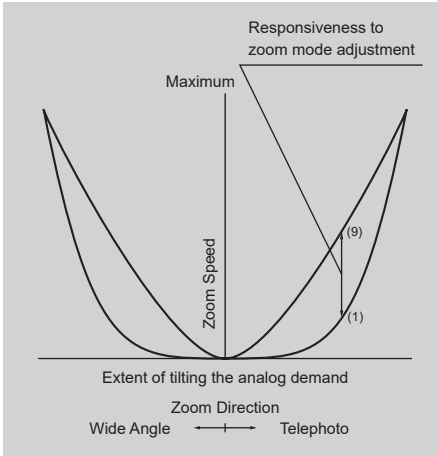
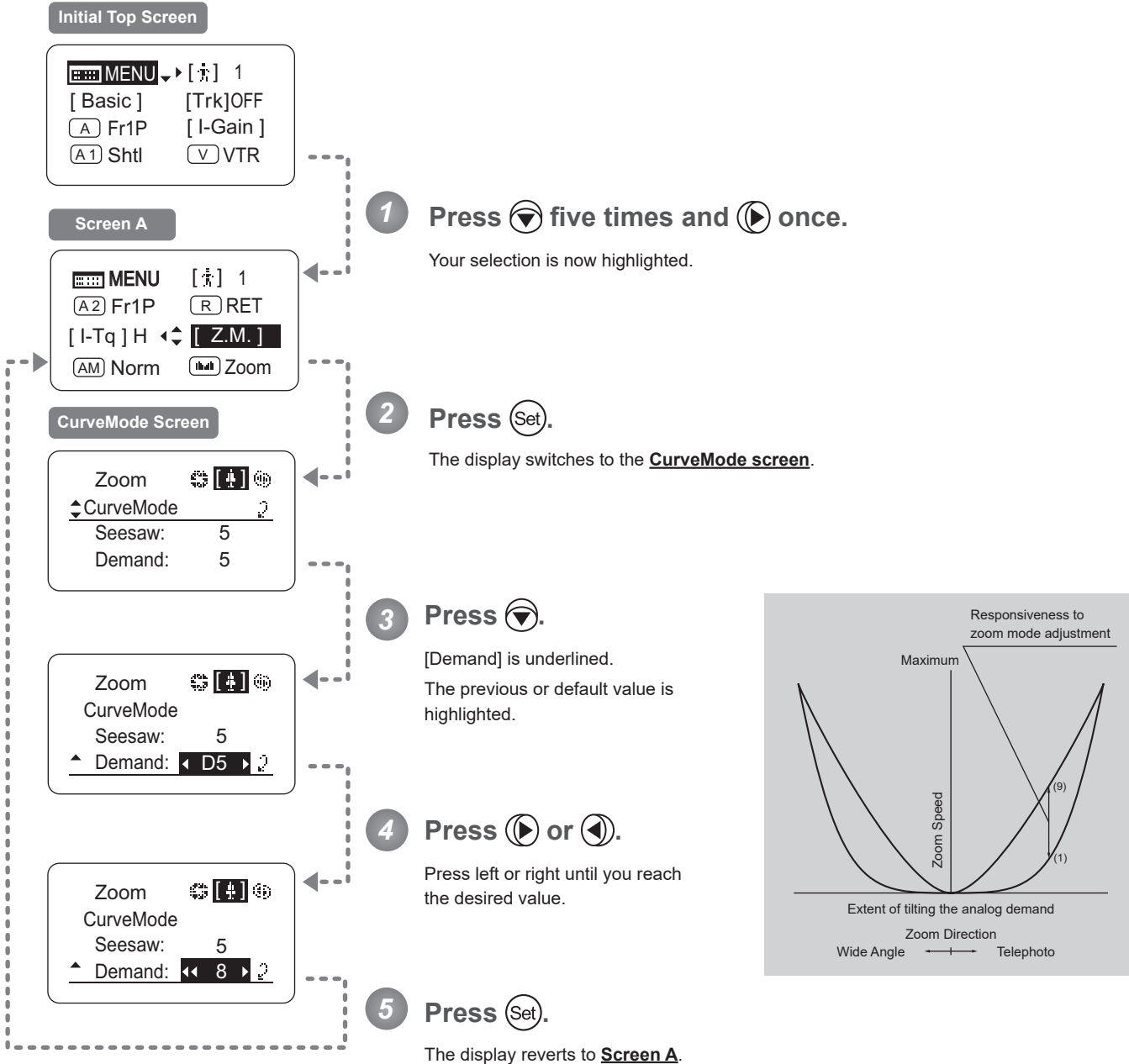


Specifying Analog Demand Responsiveness

Configure the responsiveness of zoom speed adjustment in response to pressing the analog demand thumb ring.
 (Note: Another screen is displayed when this setting is configured.)

Important

First, switch to the user for whom the settings apply.
 (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

(D): Default value



4.1.14 Specifying Iris A/M Switch

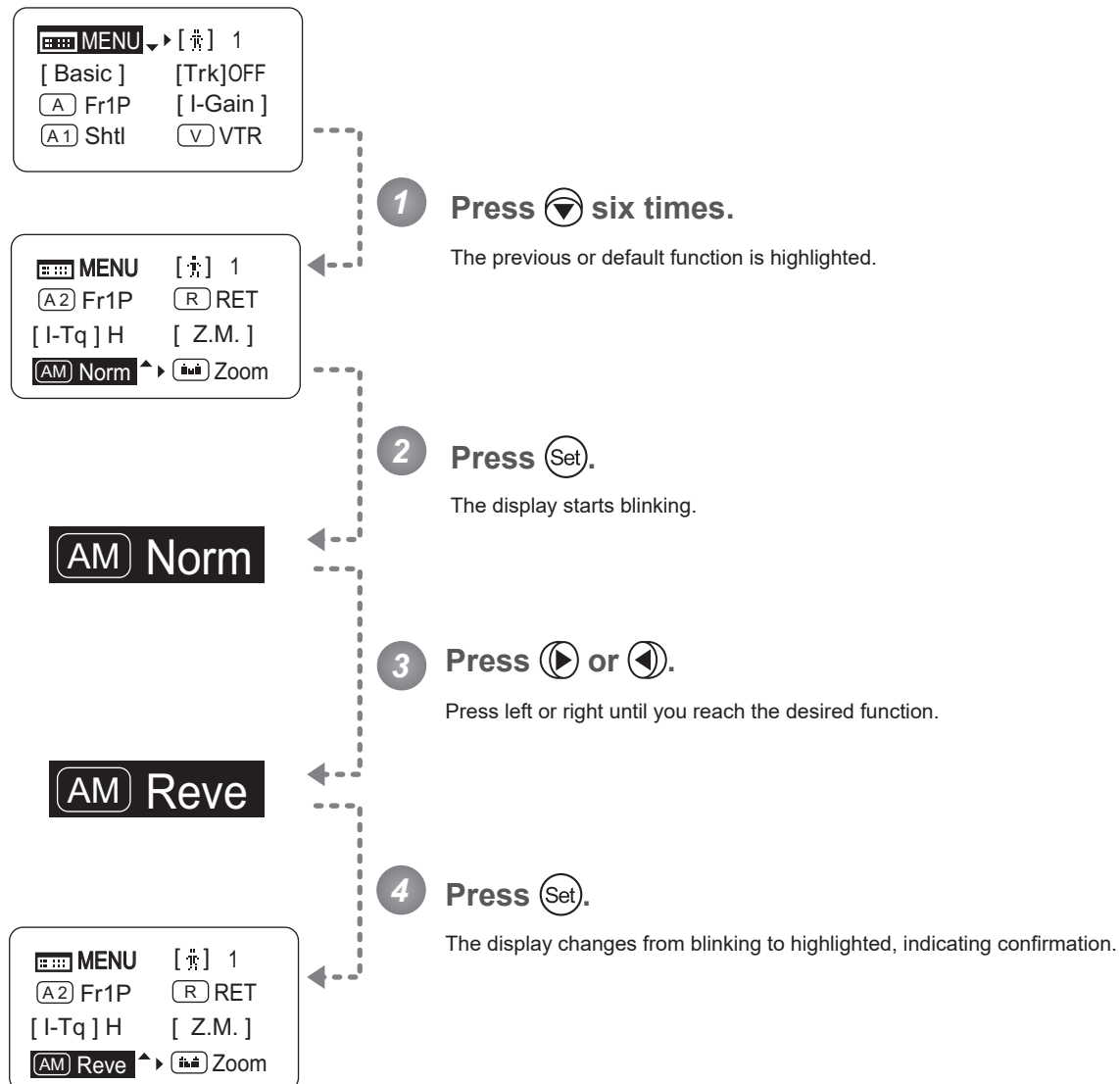
The iris A/M switch on the top of the drive unit can be programmed to activate a function of your choice.

Important

First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



| Options | ^(D) Norm | Reve | Auto | Manu |
|-------------|---|--|----------------------------------|--|
| Description | Normal operation A : Auto / M : Manual | Reverse operation A : Manual / M : Auto | Auto only A : Auto / M : Auto | Manual only A : Manual / M : Manual |

(D): Default value



4.1.15 Assigning Functions to the Seesaw

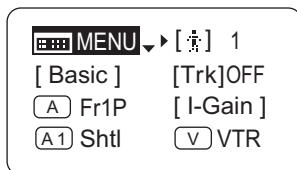


The zoom seesaw switch can be programmed to control either the {Zoom} or {Iris}.

Important

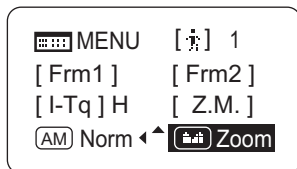
First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



1 Press six times and once.

The previous or default function is highlighted.



2 Press .

The display starts blinking.



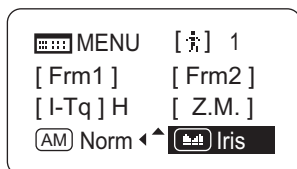
3 Press or .

Press left or right to switch the function to {Zoom} or {Iris}.



4 Press .

The display changes from blinking to highlighted, indicating confirmation.



Note: Note on Iris Assignment

1. The seesaw switch will no longer control zooming.
2. To control the iris with the rocker switch, you must set the iris mode to manual.
3. Press the Telephoto side to open the iris, or press the Wide end side to close it.
4. Zoom speed control adjustments also apply to iris control, and you can specify the maximum iris speed. (See “4.2.5 Zoom Screen Settings: Specifying Maximum Zoom Speed Control.”)

| Options | ^(D) Zoom | Iris |
|-------------|---------------------|----------------|
| Description | Zoom operation | Iris operation |

(D): Default value



4.1.16 Escape Operation

Instantly jump to user 0, with default settings, from the current user (0–9).

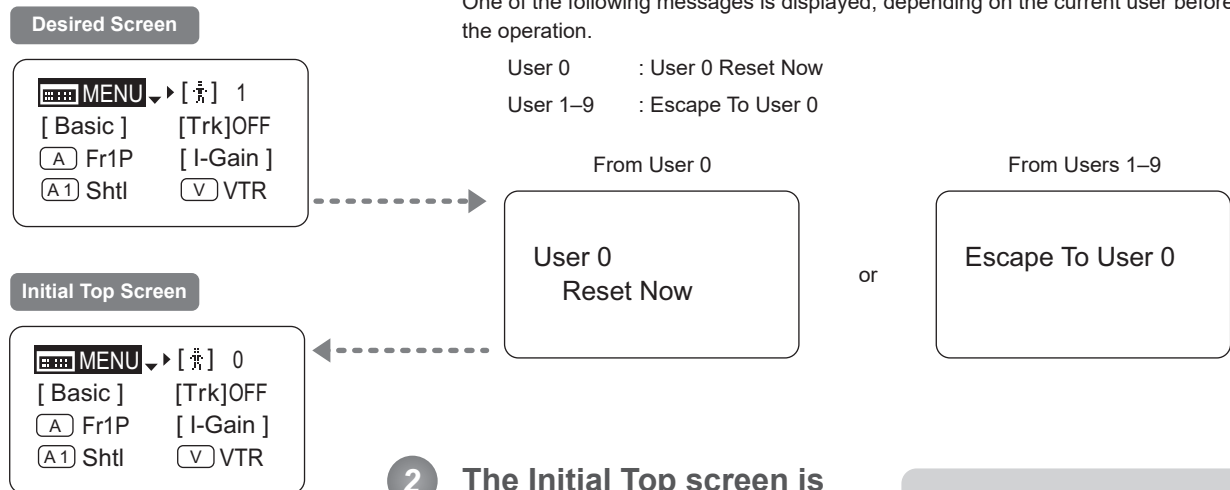
Note

1. Not available when settings are locked.
2. The following settings remain the same even after jumping to user 0.
Auto and remote iris gain values, encoder output setting, and camera follow voltage adjustments

1 Hold down both the Display switch and (Set) for at least 2 seconds.

One of the following messages is displayed, depending on the current user before the operation.

User 0 : User 0 Reset Now
User 1–9 : Escape To User 0



2 The Initial Top screen is displayed.

Note: Initial User When Restarted
After restarting, control reverts to the user before this operation.
However, if you switched users after this operation, control reverts to that user.

[(DISPLAY) and (Set)] 2 seconds

4.2 Configuration from the Menu Screen

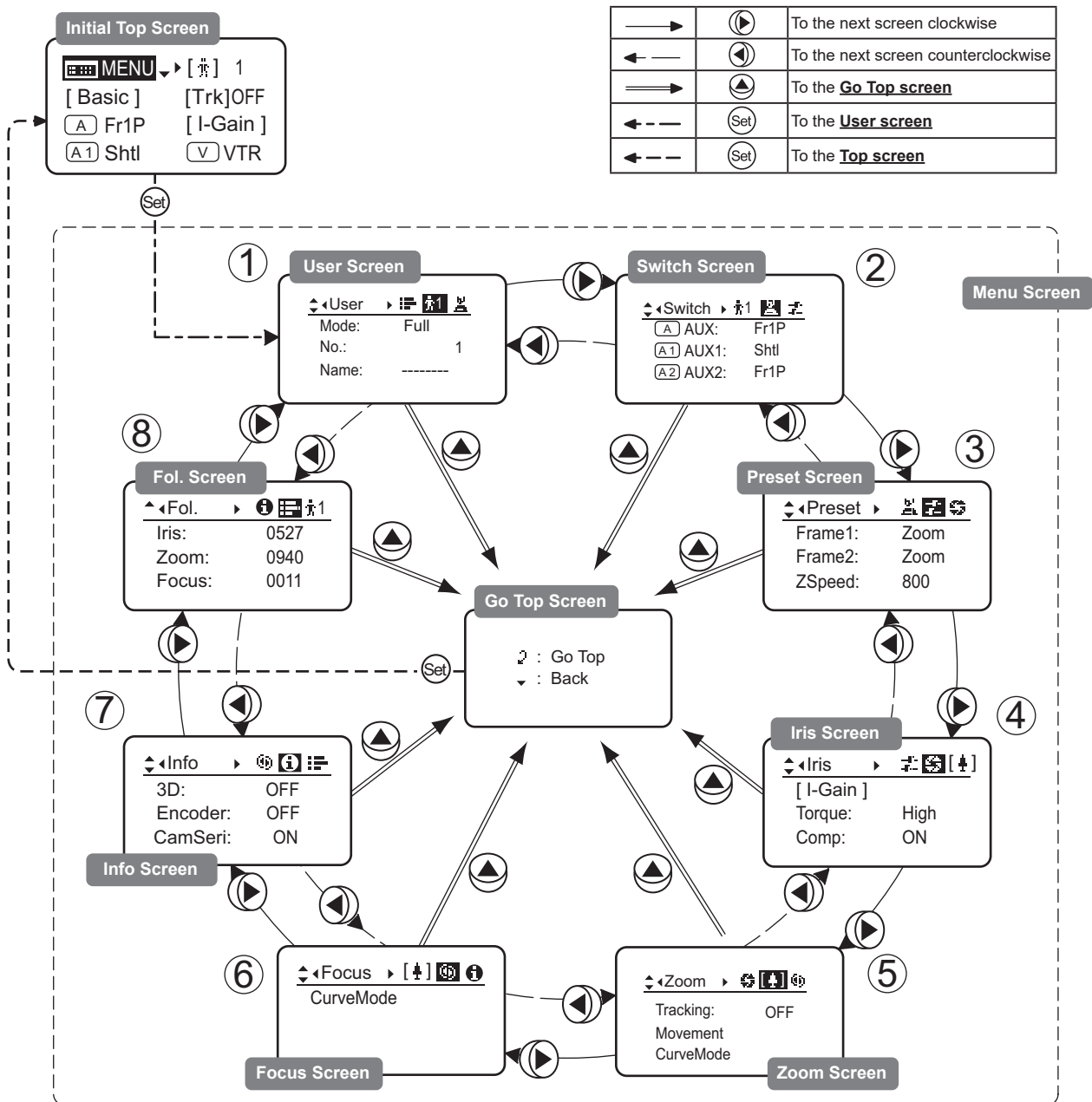
In Full mode, you can view and configure 34 setting items and a “follow” screen with three setting items that have relative values from the **Menu screen**.*

Specifically, the **Menu screen** in Full mode is organized into 8 (or for “R” type lenses, 7) screens by function: **User screen**, **Switch screen**, **Preset screen**, **Iris screen**, **Zoom screen**, **Focus screen** (only for “A” type lenses), **Info screen**, and **Fol. screen**.

Select [MENU] on the **Top screen** and press the Set key to access the **User screen** initially. Press left or right to access the 7 other screens. (See the following figure.)

*: There is no single **Menu screen**. Instead, these 8 screens are collectively referred to as the **Menu screen**.

Setting items labeled **Top** next to the function title can also be configured from the **Top screen**.



| | | |
|---|--------------------|-------|
| ① | User Screen..... | 4.2.1 |
| ② | Switch Screen..... | 4.2.2 |
| ③ | Preset Screen..... | 4.2.3 |
| ④ | Iris Screen | 4.2.4 |
| ⑤ | Zoom Screen..... | 4.2.5 |
| ⑥ | Focus Screen | 4.2.6 |
| ⑦ | Info Screen | 4.2.7 |
| ⑧ | Fol. Screen | 4.2.8 |

4.2.1 User Screen Settings

For details on users available in Full mode, see “4.1.3 Switching Users.”

The following setting items can be configured on the User screen.

Switching Modes

Switching Users **Top**

Naming Users

Resetting Values

- (1) Resetting One User’s Settings
- (2) Resetting All Users’ Settings

Copying Settings Between Individual Users

Copying Settings Between Lenses

- (1) Copying One User’s Settings to Another Lens
- (2) Copying All Users’ Settings to Another Lens
- (3) Responding to Errors

Locking Functions

Items labeled **Top** can also be modified from the Top screen.

User Screen in Full Mode

| | | | |
|--------|---|-------|---|
| ◀User▶ | ⋮ | 1 | ⋮ |
| Mode: | | Full | |
| No.: | | 1 | |
| Name: | | ----- | |

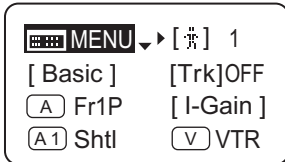
Switching Modes

Switch to Basic or Analog mode as needed.

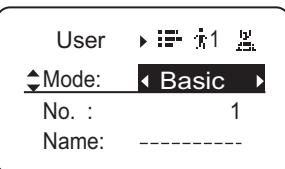
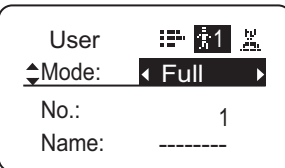
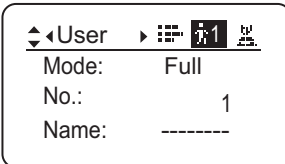
Important

The new mode setting is retained even after the lens is turned off.

Initial Top Screen



User Screen



1 Press .

The display switches to the **User screen**.

2 Press .

[Mode] is underlined.
The previous mode is highlighted.

3 Press or .

Press left or right until you reach the desired mode.

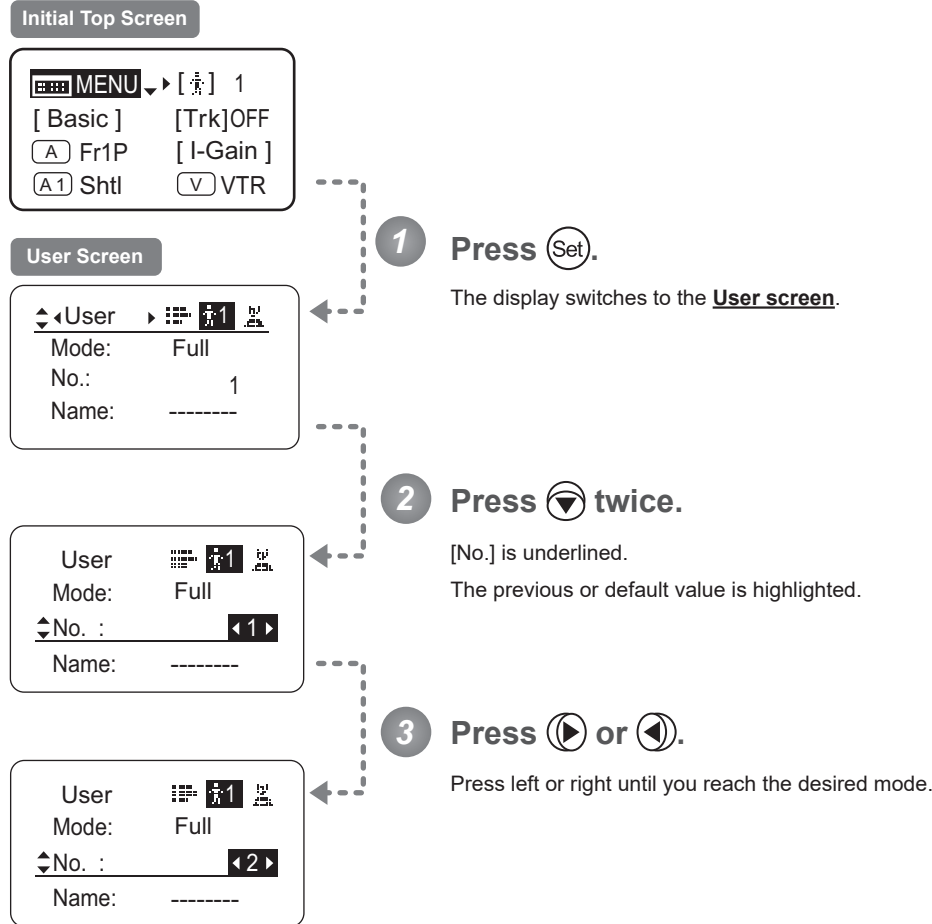
| Options | ^(D) Basic | Full | Analog |
|---------------|----------------------|-----------|-------------|
| Save Settings | Basic Mode | Full Mode | Analog Mode |

(D): Default value



Switching Users Top

Switch Users (0–9) as needed. To configure settings for individual users, switch to that user number.



| Options | 0 | ^(D) 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----------------------|--|----------------------------|---|---|---|---|---|---|---|---|
| Save Settings | Not supported Although settings cannot be saved, they can be changed temporarily. Switching users or turning the lens off will restore default values. | Can be saved for each user | | | | | | | | |

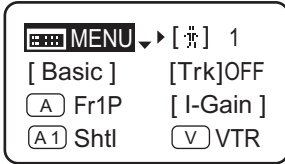
(D): Default value



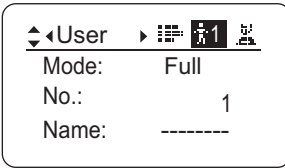
Naming Users

Users can be named, as needed.

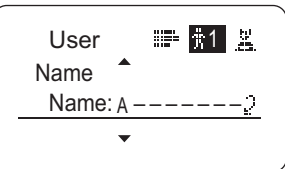
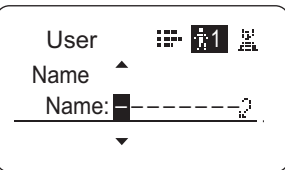
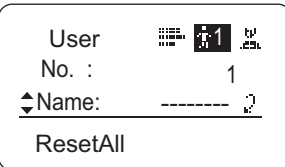
Initial Top Screen



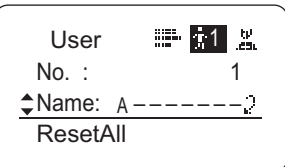
User Screen



Title: Name



Title: Name



Important

First, switch to the user for whom the settings apply.
(For instructions, see "4.1.3 Switching Users" or "4.2.1 User Screen Settings: Switching Users.")

1 Press **(Set)**.

The display switches to the **User screen**.

2 Press **(Down Arrow)** three times.

[Name] is underlined.

3 Press **(Set)**.

The first dash is highlighted, indicating that you can edit it.

4 Enter the name.

Entering Name

Press up/down to find characters and left/right to move the cursor or make corrections.

5 Press the **(Set)** to confirm the name.

The display reverts to **Title: Name**.

| | |
|--------------------|--|
| Options | (D) - ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789 |
| Max. Digits | 8 |

(D) : Default value
_ : Space

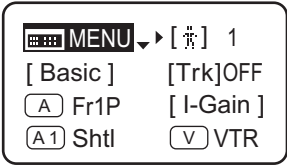


Resetting Values

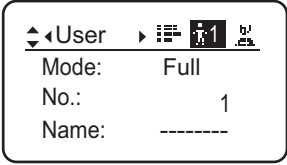
(1) Resetting One User's Settings

Reset a user's settings to default values as needed.

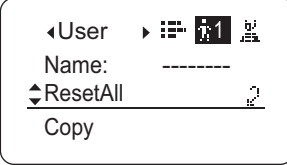
Initial Top Screen



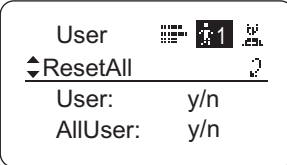
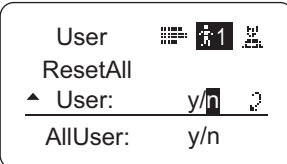
User Screen



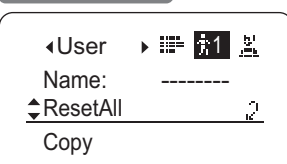
Title: Reset



Reset Screen










Title: Reset





Important

First, switch to the user for whom the settings apply.
(For instructions, see "4.1.3 Switching Users" or "4.2.1 User Screen Settings: Switching Users.")

- 1 Press .**
The display switches to the **User screen**.
- 2 Press  four times.**
[ResetAll] is underlined.
- 3 Press .**
The display switches to the **Reset screen**.
- 4 Press .**
A confirmation message is displayed about resetting information for the selected user.
- 5 Press  and then .**
After a message is displayed indicating that resetting is in progress, the display reverts to **Title: Reset**.
The settings have now been reset.

Note: Iris gain values, encoder output setting, and camera follow voltage adjustments are not reset. The current value is retained.

Note: You can cancel resetting and restore the original values at any time before pressing  in step 5. To return to the previous screen, press up. To cancel resetting and turn off the display, press the Display switch.



(2) Resetting All Users' Settings

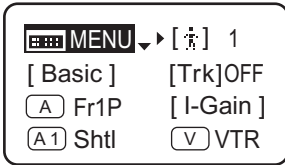
Reset all users' settings to default values as needed.

Note: There is no need to switch users.

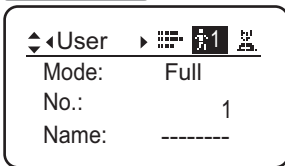
Note: Iris gain values, encoder output setting, and camera follow voltage adjustments are not reset. The current value is retained.

Note: You can cancel resetting and restore the original values at any time before pressing **Set** in step 5. To return to the previous screen, press up. To cancel resetting and turn off the display, press the Display switch.

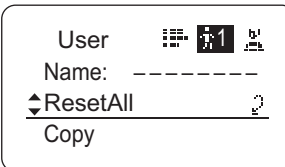
Initial Top Screen



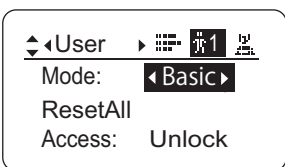
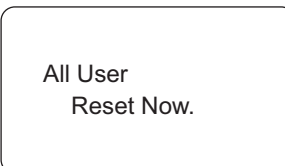
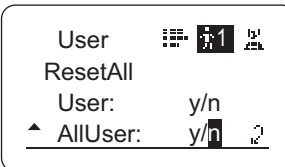
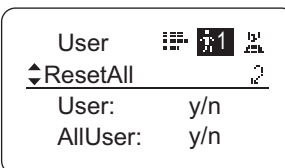
User Screen



Title: Reset



Reset Screen



1 Press **Set.**
The display switches to the **User screen**.

2 Press **Down Arrow four times.**
[ResetAll] is underlined.

3 Press **Set.**
The display switches to the **Reset screen**.

4 Press **Down Arrow twice.**
A confirmation message is displayed about resetting information for the all users.

5 Press **Left Arrow and then **Set**.**

Resetting is finished once the message during resetting is no longer displayed.



Copying Settings Between Individual Users

Settings configured for one user can be copied to another user.

Initial Top Screen

```

MENU [ ] 1
[ Basic ] [Trk]OFF
[A] Fr1P [ I-Gain ]
[A1] Shtl [V] VTR

```

User Screen

```

User [ ] 1
Mode: Full
No.: 1
Name: -----

```

Screen A

```

User [ ] 1
ResetAll
Copy [ ] 2
ToOtherLens

```

Copy Screen

```

User [ ] 1
Copy [ ] 2
To No. : 1
Copy: y/n

```

```

User [ ] 1
Copy [ ] 2
To No. : 1
Copy: y/n

```

```

User [ ] 1
Copy [ ] 2
To No. : 3
Copy: y/n

```

Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

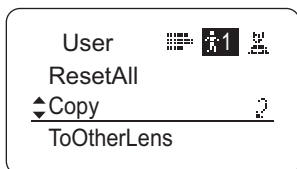
- 1 Press (Set).**
The display switches to the User screen.
- 2 Press (Down Arrow) five times.**
[Copy] is underlined.
- 3 Press (Set).**
The display switches to the Copy screen.
- 4 Press (Down Arrow).**
[To No.] is underlined.
- 5 Press (Right Arrow) or (Left Arrow).**
Press left or right until you reach the user to copy settings to.
- 6 Press (Down Arrow).**
[Copy] is underlined, and you can select {y} (yes) or {n} (no).

Note: You can cancel copying and restore the original values at any time before pressing (Set) in step 7. To return to the previous screen, press up. To cancel copying and turn off the display, press the Display switch.

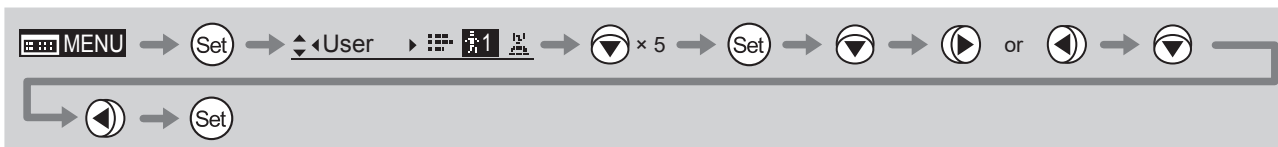
Continued from previous page

7 Press  and then .

Screen A



Settings are copied to the specified user number, and the display reverts to **Screen A**.

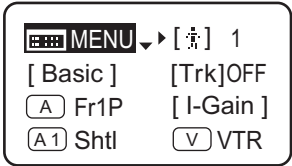


Copying Settings Between Lenses

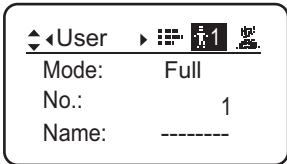
Setting information can be copied between information displays of drive units mounted on the display. You can copy either settings for individual users or for all users. Copying requires a dedicated cable, sold separately. For details, contact Canon or your dealer.

(1) Copying One User's Settings to Another Lens

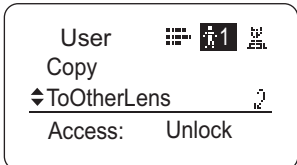
Initial Top Screen



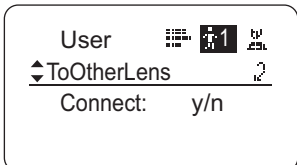
User Screen



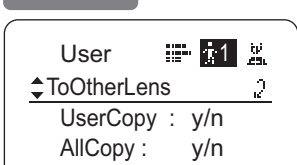
Screen A



ToOtherLens Screen



Screen B



Note: Required Preparation

1. Plug one end of the dedicated cable (20 pin–20 pin) into the source lens and the other end into the 20-pin connector of the zoom/focus remote of the target lens.
2. Turn on the source and target lenses.
3. Press the Display switch on the source lens to turn on the display. (Leave the source lens display off.)

1 Press (Set).
The display switches to the User screen.

2 Press (Down Arrow) six times.
[ToOtherLens] is underlined.

3 Press (Set).
The display switches to the ToOtherLens screen.

4 Press (Down Arrow).
[Connect] is underlined, and you can select {y} (yes) or {n} (no).

5 Press (Left Arrow) and then (Set).
The display switches to Screen B.

6 Press (Down Arrow).

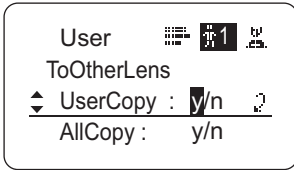
Important

First, switch to the user for whom the settings apply. (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Note: You can cancel copying and restore the original values at any time before pressing (Set) in step 11. To return to the previous screen, press up. To cancel copying and turn off the display, press the Display switch.

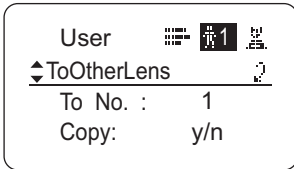
Continued from previous page

Copy Selection Screen



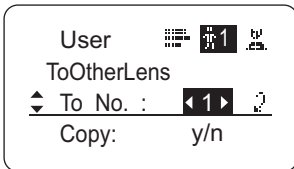
The display switches to the Copy selection screen.

Target User Selection Screen



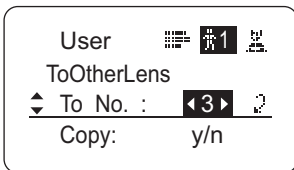
7 Press **Set**.

The display switches to the Target user selection screen.



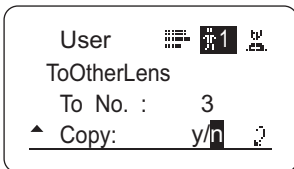
8 Press **Down Arrow**.

[To No.] is underlined.



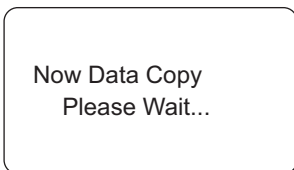
9 Press **Left Arrow** or **Right Arrow**.

Press left or right until you reach the number of the user on the target lens to copy settings to.



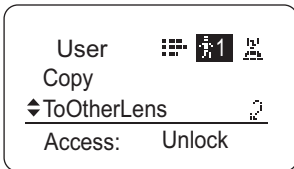
10 Press **Down Arrow**.

[Copy] is underlined, and you can select {y} (yes) or {n} (no).



11 Press **Left Arrow** and then **Set**.

Screen A



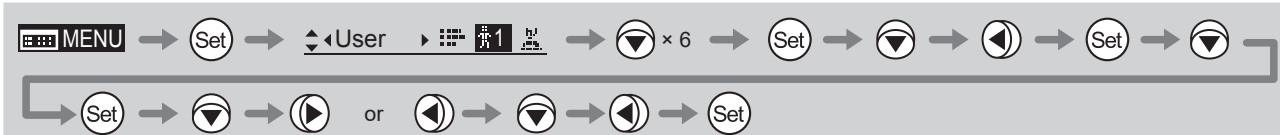
After a message is displayed indicating that copying is in progress, the display reverts to Screen A.

The settings have now been copied between lenses. ²

*1: Pressing the Set key in this step begins the copying process. Note that once copying begins, you cannot restore the original settings.

*2: To avoid problems during copying, do not operate controls or press the Display switch on the source or target lenses. Do not perform other operations.

Note: If copying fails, an error message is displayed. Respond as described in "(3) Responding to Errors."



(2) Copying All Users' Settings to Another Lens

Copying requires a dedicated cable, sold separately. For details, contact Canon or your dealer.

Note: Required Preparation

1. Plug one end of the dedicated cable (20 pin–20 pin) into the source lens and the other end into the 20-pin connector of the zoom/focus remote of the target lens.
2. Turn on the source and target lenses.
3. Press the Display switch on the source lens to turn on the display. (Leave the source lens display off.)

Initial Top Screen

```

MENU ▾ [ # ] 1
[ Basic ] [Trk]OFF
(A) Fr1P [ I-Gain ]
(A1) Shtl (V) VTR

```

User Screen

```

◀ User ▶ [ # ] [ 1 ]
Mode: Full
No.: 1
Name: -----

```

Screen A

```

User [ # ] [ 1 ] [ A ]
Copy
◀ ToOtherLens ▶ [ # ] [ 2 ]
Access: Unlock

```

ToOtherLens Screen

```

User [ # ] [ 1 ] [ A ]
◀ ToOtherLens ▶ [ # ] [ 2 ]
Connect: y/n

```

User Screen (Final)

```

User [ # ] [ 1 ] [ A ]
ToOtherLens
^ Connect: y/n [ # ] [ 2 ]

```

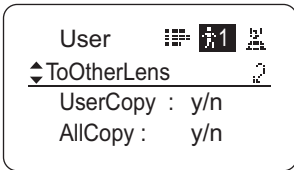
- 1 Press (Set).**
The display switches to the User screen.
- 2 Press (Down Arrow) six times.**
[ToOtherLens] is underlined.
- 3 Press (Set).**
The display switches to the ToOtherLens screen.
- 4 Press (Down Arrow).**
[Connect] is underlined, and you can select {y} (yes) or {n} (no).
- 5 Press (Left Arrow) and then (Set).**

Note: You can cancel copying and restore the original values at any time before pressing (Set) in step 9. To return to the previous screen, press up. To cancel copying and turn off the display, press the Display switch.

Continued on next page

Continued from previous page

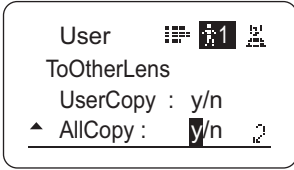
Screen B



The display switches to **Screen B**.

6 Press twice.

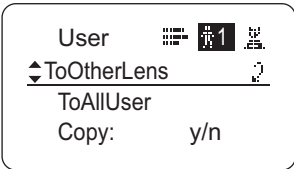
[AllCopy] is underlined, and you can select {y} (yes) or {n} (no).



7 Press .

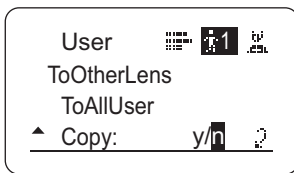
The display switches to the **AllCopy screen**.

AllCopy Screen

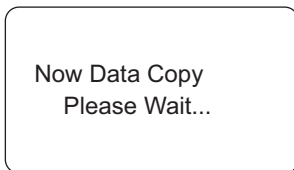


8 Press .

[Copy] is underlined, and you can select {y} (yes) or {n} (no).



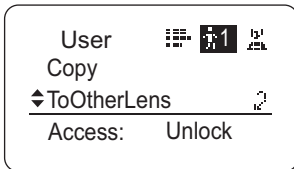
9 Press and then .



After a message is displayed indicating that copying is in progress, the display reverts to **Screen A**.

The settings have now been copied between lenses. *2

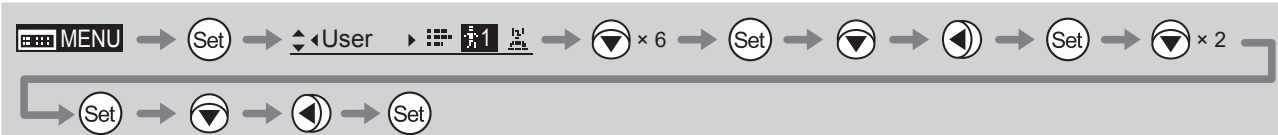
Screen A



*1: Pressing the Set key in this step begins the copying process. Note that once copying begins, you cannot restore the original settings.

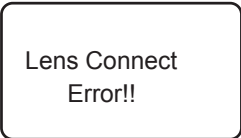
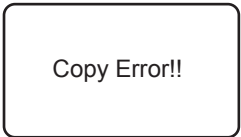




*2: To avoid problems during copying, do not operate controls or press the Display switch on the source or target lenses. Do not perform other operations.

Note: If copying fails, an error message is displayed. Respond as described in "(3) Responding to Errors."



(3) Responding to Errors

If copying between lenses fails, check the following.

| Error Screen | Checking Item | Problem | Responding |
|---|---|--|--|
|  | Confirm that the dedicated cable (20 pin–20 pin) is connected. | Settings cannot be copied between lenses unless the cable is connected. | Securely connect the cable between the source and target lenses, and follow the steps to copy again, from the start. |
| | Confirm that the target lens is on. | Settings cannot be copied unless both the source and target lenses are on. | Turn on both the source and target lenses, and follow the steps to copy again, from the start. |
| | Confirm that the drive unit of the target lens is the same model. | Settings cannot be copied between lenses of different generations of drive units. | Contact Canon or your dealer for details on models of drive unit that can be used to copy settings. |
|  | Confirm that the dedicated cable (20 pin–20 pin) is connected. | The message at left is displayed if the lenses are disconnected during copying, if a power outage occurs, or if a lens is turned off. In this case, copying is interrupted, which prevents the settings from being copied correctly. | Confirm that the source and target lenses are on, and that the cable is securely connected. Press the Display switch to return to Screen A , and follow the steps to copy again, from the start. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; background-color: #cccccc; margin: 0;">Screen A</p> <p>User  </p> <p>Copy</p> <p> ToOtherLens </p> <p>Access: Unlock</p> </div> |
| | Confirm that the source and target lenses are on. | | |

Lock Functions

To ensure that configured functions cannot easily be changed, you can lock the settings of certain functions. Once functions are locked, they are locked for all users.

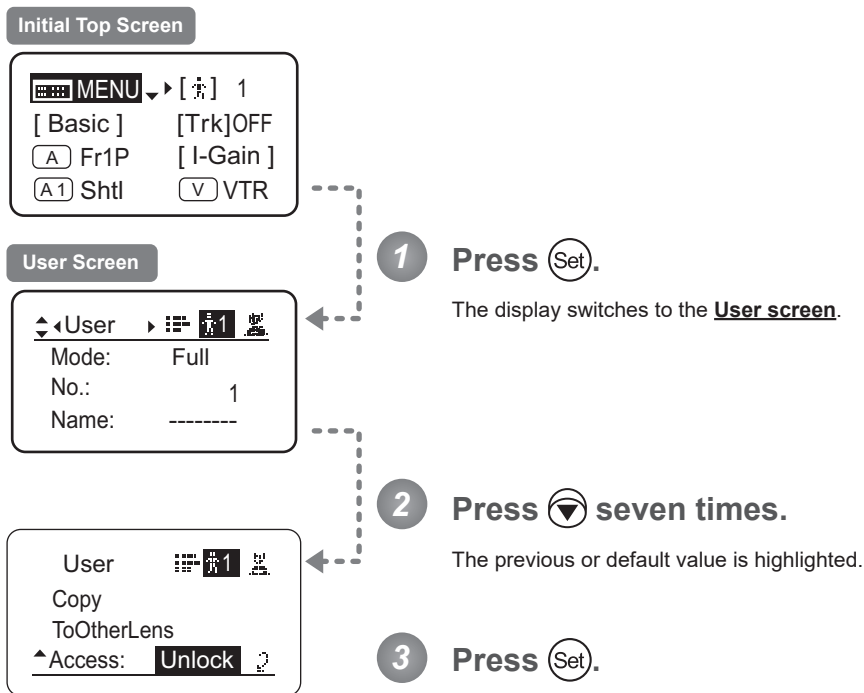
For instructions on locking settings in Analog mode, see “5. Operation in Analog Mode.”



Note

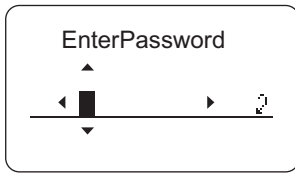
1. User numbers 0–9 in the user number field indicate users that are unlocked.
“Lock” in the user number field indicate users that are locked.
2. In lock mode, only the following items can still be configured, and other settings are locked.
 - Preset data (Shuttle shot position, Frame preset position, Preset speed)
 - Zoom tracking position, on/off
 - Auto iris gain setting
 - Specifying encoder output
 - Camera follow voltage adjustments

(1) Locking Settings



Continued on next page

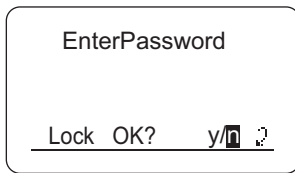
Continued from previous page



4 Enter the password and press (Set).

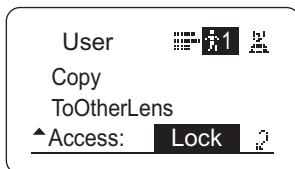
Entering Passwords

Press up/down to find characters and left/right to move the cursor or make corrections. Be careful not to press the Set key until you are finished entering the password.



5 Press (Left Arrow) and then (Set).

The settings are now locked.



Note

Passwords

No master password is used on this model. The password you enter each time to lock settings is the password used to unlock them. For this reason, we recommend making a note of the password each time. If you forget the password, contact Canon or your dealer. Passwords can be blank or up to 8 digits.

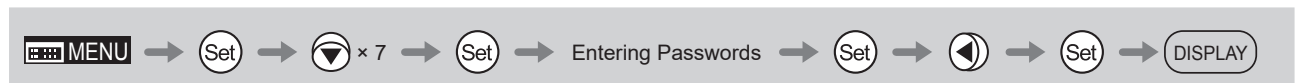
Characters supported in passwords

| | |
|--------------------|--|
| Options | ^(D) _-ABCDEFGHIJKLMN OPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789 |
| Max. Digits | 8 |

(D) : Default value
_ : Space

| | | |
|----------------|-----------------------|------|
| Options | ^(D) Unlock | Lock |
|----------------|-----------------------|------|

(D): Default value

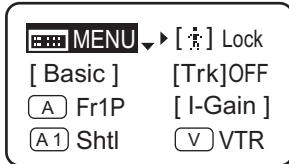


(2) Unlocking Settings

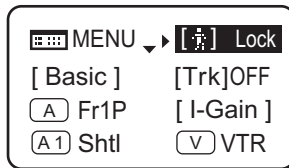
Settings can be unlocked in two ways, as follows.

(Unlocking Setting 1)

Initial Top Screen



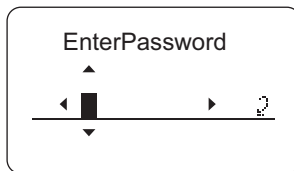
1 Press



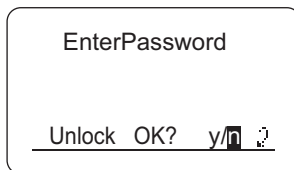
2 Press .
The display starts blinking.



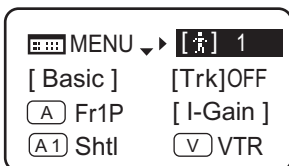
3 Press or .



4 Enter the password and press .
The password you entered to lock settings is the password used to unlock them.



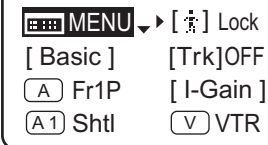
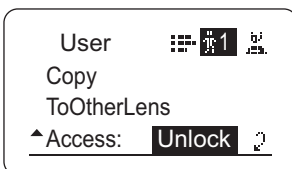
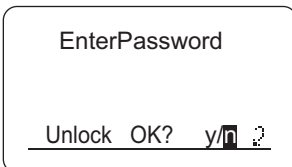
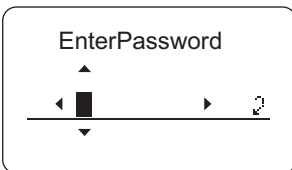
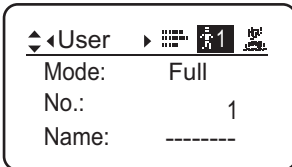
5 Press and then .
"Lock" changes to the user number.
(The previously locked user number is displayed.)



| Options | ^(D) Unlock | Lock |
|---------|-----------------------|------|
|---------|-----------------------|------|

(D): Default value

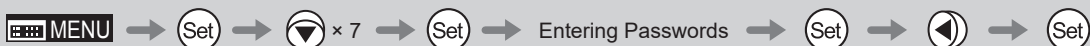


(Unlocking Setting 2)**Initial Top Screen****User Screen****1** Press **Set**.The display switches to the **User screen**.**2** Press **Down Arrow** seven times.**3** Press **Set**.**4** Enter the password and press **Set**.

The password you entered to lock settings is the password used to unlock them.

5 Press **Left Arrow** and then **Set**.

The settings are now unlocked.



4.2.2 Switch Screen Settings

The following setting items can be configured on the **Switch screen**.

Assigning Functions to the AUX Switch **Top**

Assigning Functions to the AUX1 Switch **Top**

Assigning Functions to the AUX2 Switch **Top**

Assigning Functions to the VTR Switch **Top**

Assigning Functions to the RET Switch **Top**

Specifying Iris A/M Switch **Top**

Assigning Functions to the Seesaw **Top**

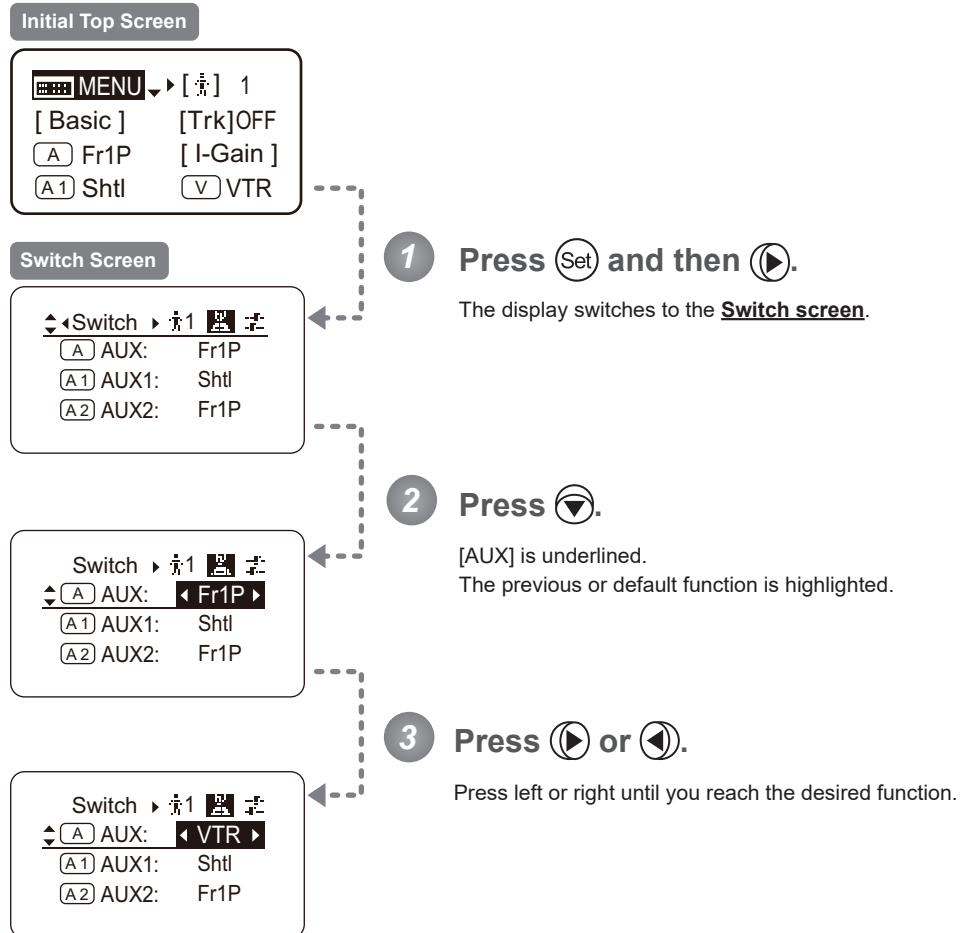
Items labeled **Top** can also be modified from the **Top screen**.

Assigning Functions to the AUX Switch Top

The AUX switch can be programmed to activate a function of your choice.

Important

First, switch to the user for whom the settings apply.
 (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



Assigning Functions to the AUX1 Switch Top

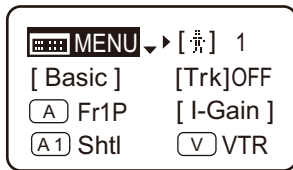
The AUX1 switch can be programmed to activate a function of your choice.

Important

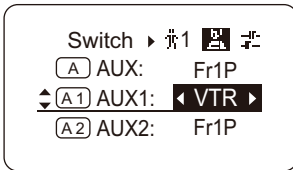
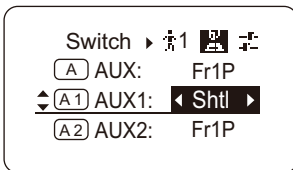
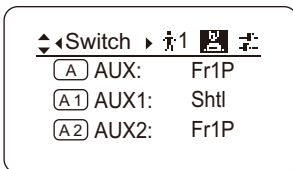
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Switch Screen



1 Press and then .

The display switches to the **Switch screen**.

2 Press twice.

[AUX1] is underlined.

The previous or default function is highlighted.

3 Press or .

Press left or right until you reach the desired function.

| Options | Fr1P | Fr1F | Fr2P | Fr2F | Sped | ^(D) Shtl | NON | VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value



Assigning Functions to the AUX2 Switch Top

The AUX2 switch can be programmed to activate a function of your choice.

Important

First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen

```

MENU ▾ ▶ [ 1
[ Basic ] [Trk]OFF
(A) Fr1P [ I-Gain ]
(A1) Shtl (V) VTR
  
```

Switch Screen

```

◀Switch ▶ 1
(A) AUX: Fr1P
(A1) AUX1: Shtl
(A2) AUX2: Fr1P
  
```

```

Switch ▶ 1
(A) AUX: Fr1P
(A1) AUX1: Shtl
◀(A2) AUX2: ◀Fr1P▶
  
```

```

Switch ▶ 1
(A) AUX: Fr1P
(A1) AUX1: Shtl
◀(A2) AUX2: ◀Sped▶
  
```

1 Press **Set** and then **▶**.

The display switches to the **Switch screen**.

2 Press **▼** three times.

[AUX2] is underlined.

The previous or default function is highlighted.

3 Press **▶** or **◀**.

Press left or right until you reach the desired function.

| Options | ^(D) Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET |
|--------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|-------------|------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | No function | VTR switch | RET switch |

(D): Default value

MENU → **Set** → **▶** → **◀Switch ▶ 1** → **▼** × 3 → **▶** or **◀**

Assigning Functions to the VTR Switch Top

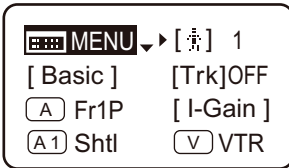
The VTR switch can be programmed to activate a function of your choice.

Important

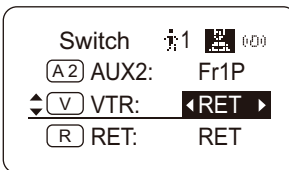
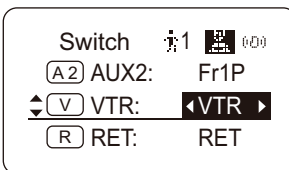
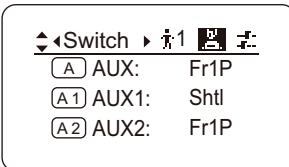
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Switch Screen



1 Press **Set** and then **▶**.

The display switches to the Switch screen.

2 Press **◂** four times.

[VTR] is underlined.

The previous or default function is highlighted.

3 Press **▶** or **◂**.

Press left or right until you reach the desired function.

| Options | Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | ^(D) VTR | RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|--------------------|------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | VTR switch | RET switch |

(D): Default value

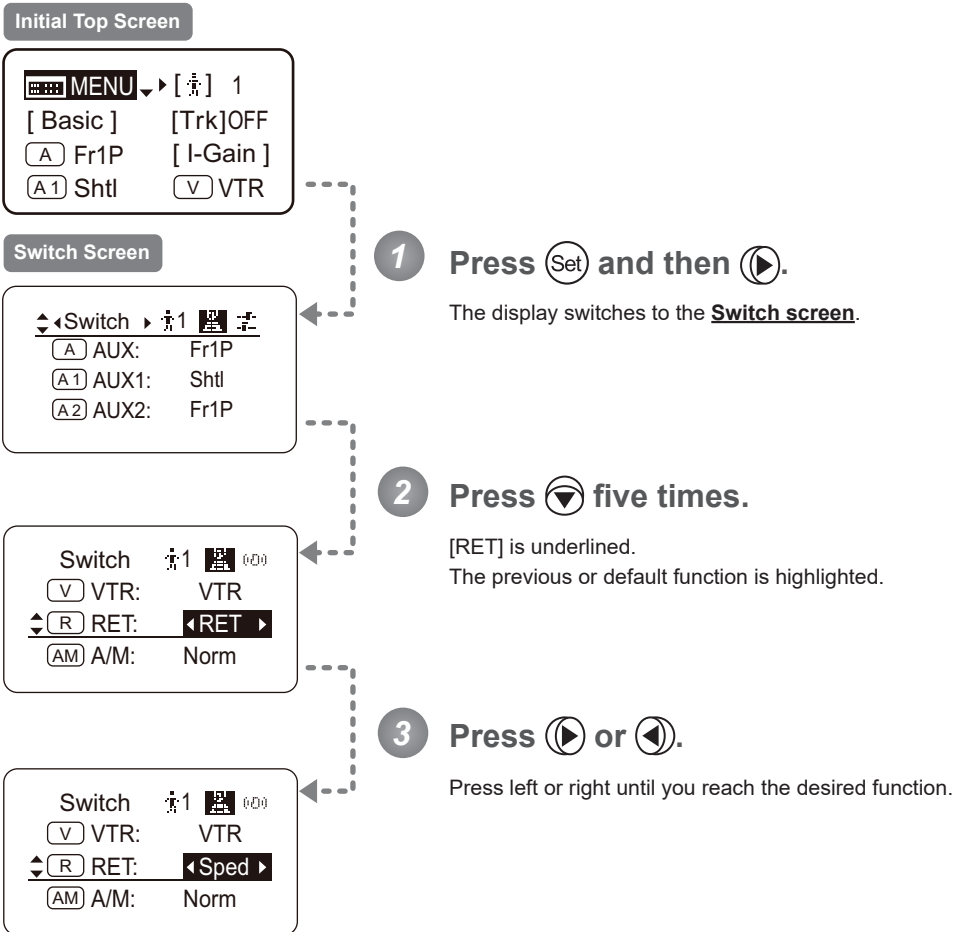


Assigning Functions to the RET Switch Top

The RET switch can be programmed to activate a function of your choice.

Important

First, switch to the user for whom the settings apply.
 (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| Options | Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | VTR | ^(D) RET |
|-------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------|---------------------|------------|--------------------|
| Description | Framing Preset1 switch (preset speed) | Framing Preset1 switch (max. speed) | Framing Preset2 switch (preset speed) | Framing Preset2 switch (max. speed) | Speed Preset switch | Shuttle-Shot switch | VTR switch | RET switch |

(D): Default value



Specifying Iris A/M Switch Top

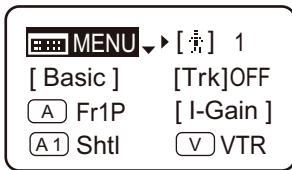
The Iris A/M switch can be programmed to activate a function of your choice.

Important

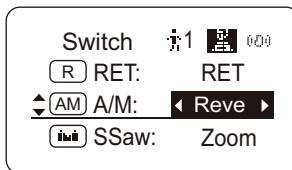
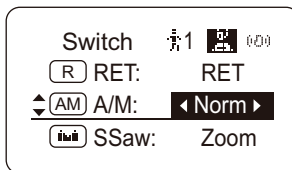
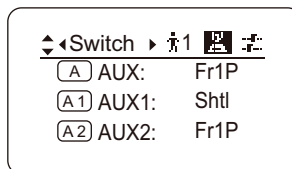
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Switch Screen



1 Press and then .

The display switches to the **Switch screen**.

2 Press six times.

[A/M] is underlined.

The previous or default function is highlighted.

3 Press or .

Press left or right until you reach the desired function.

| Options | ^(D) Norm | Reve | Auto | Manu |
|-------------|---|--|--------------------------------|--------------------------------------|
| Description | Normal operation A: Auto / M: Manual | Reverse operation A: Manual / M: Auto | Auto Only A: Auto / M: Auto | Manual Only A: Manual / M: Manual |

(D): Default value



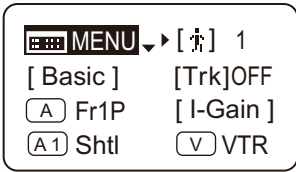
Assigning Functions to the Seesaw Top

The zoom seesaw switch can be programmed to control either the {Zoom} or {Iris}.

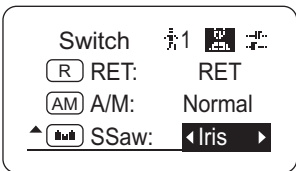
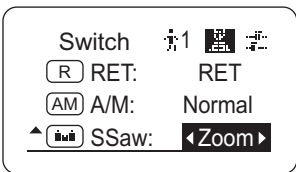
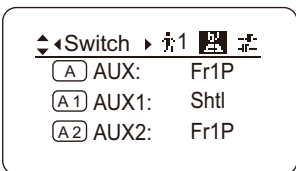
Important

First, switch to the user for whom the settings apply.
 (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Switch Screen



1 Press and then .

The display switches to the **Switch screen**.

2 Press seven times.

[SSaw] is underlined.
 The previous or default function is highlighted.

3 Press or .

Press left or right until you reach the desired function.

Note: Note on Iris Assignment

1. The seesaw switch will no longer control zooming.
2. To control the iris with the rocker switch, you must set the iris mode to manual. Operation is not possible in Auto or Remote mode.
3. Press the Telephoto side to open the iris, or press the Wide end side to close it.
4. Zoom speed control adjustments also apply to iris control, and you can specify the maximum iris speed. (See “4.2.5 Zoom Screen Settings: Specifying Maximum Zoom Speed Control”.)

| Options | ^(D) Zoom | Iris |
|--------------------|---------------------|----------------|
| Description | Zoom operation | Iris operation |

(D): Default value



4.2.3 Preset Screen Settings

The following setting items can be configured on the **Preset screen**.

Switching What Frame Preset 1 Controls

Switching What Frame Preset 2 Controls

Specifying the Preset Mode Zoom Speed

Specifying Zoom Start Responsiveness for Presets

Specifying Zoom Stop Responsiveness for Presets

Switching What Frame Preset 1 Controls

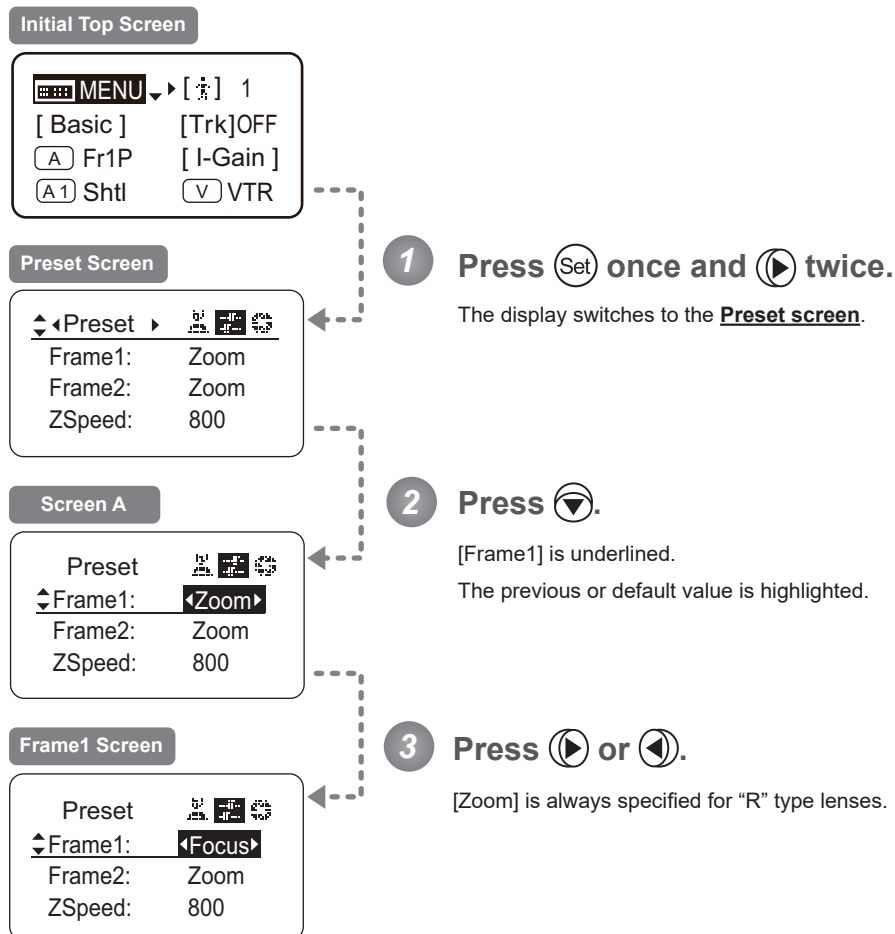
Switch what frame preset 1 controls, as needed.

- Zoom : Move the zoom position to the position in memory
- Focus : Move the focus position to the position in memory
- Z+F : Move the zoom and focus position to the position in memory

Important

First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| Options | ^(D) Zoom | Focus | Z+F |
|-------------|---------------------|------------------|------------------------------|
| Description | Control zooming | Control focusing | Control zooming and focusing |

(D): Default value



Switching What Frame Preset 2 Controls

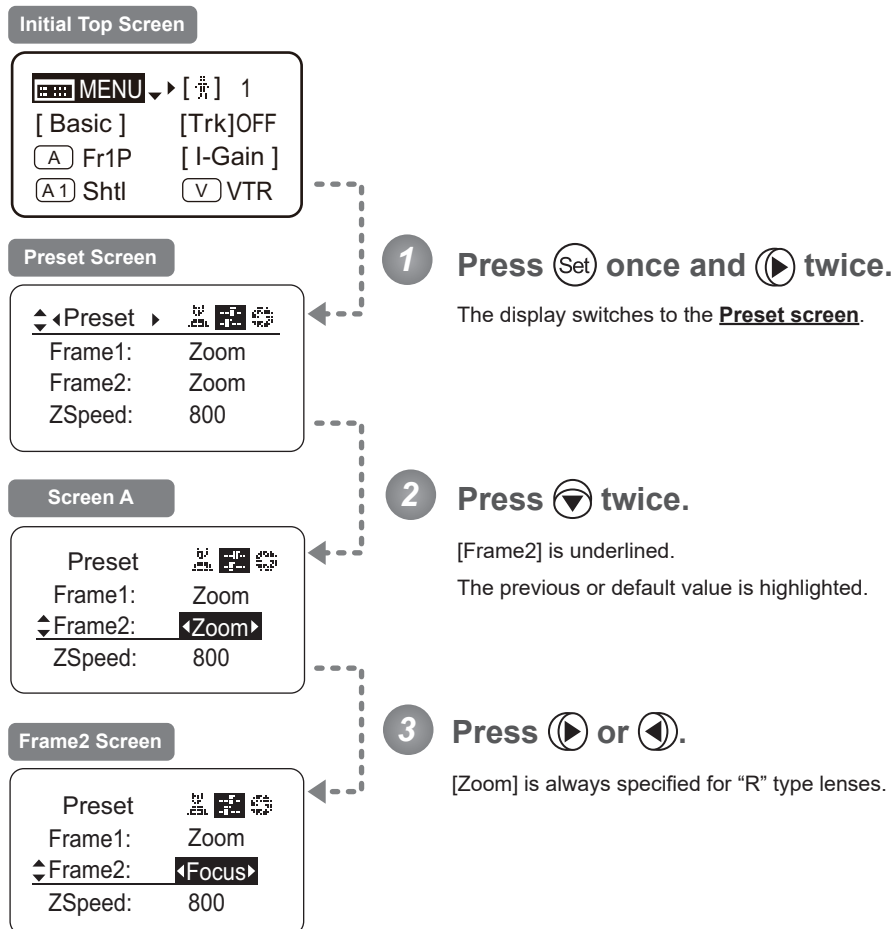
Switch what frame preset 2 controls, as needed.

- Zoom : Move the zoom position to the position in memory
- Focus : Move the focus position to the position in memory
- Z+F : Move the zoom and focus position to the position in memory

Important

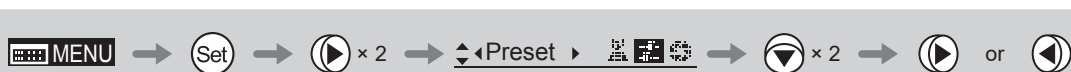
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| Options | ^(D) Zoom | Focus | Z+F |
|--------------------|---------------------|------------------|------------------------------|
| Description | Control zooming | Control focusing | Control zooming and focusing |

(D): Default value



Specifying the Preset Mode Zoom Speed

Configure the zoom speed from any position to the position in memory, as needed.

To adjust the value, use either the Memo button (refer to the operation manual “Lens”) or display operations.

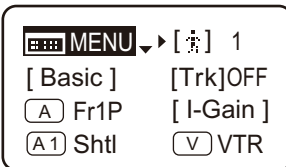
Regardless of the method of adjustment used, the most recent setting takes precedence.

Important

First, switch to the user for whom the settings apply.

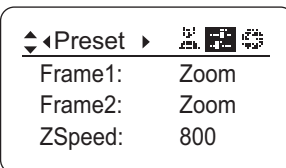
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Note: Your specified values apply to both Fr1P and Fr2P.

Preset Screen



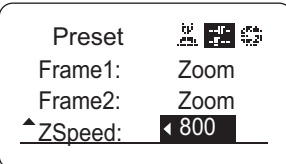
1 Press once and twice.

The display switches to the **Preset screen**.

2 Press three times.

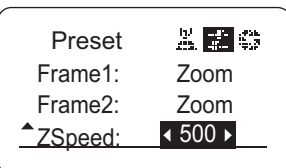
[ZSpeed] is underlined.

The previous or default value is highlighted.



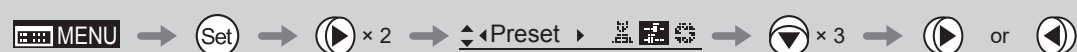
3 Press or .

Press left or right until you reach the desired value.



| | | | |
|-------------|---------|----|--------------------|
| Options | 1 | to | ^(D) 800 |
| Description | Slowest | | Fastest |

(D): Default value

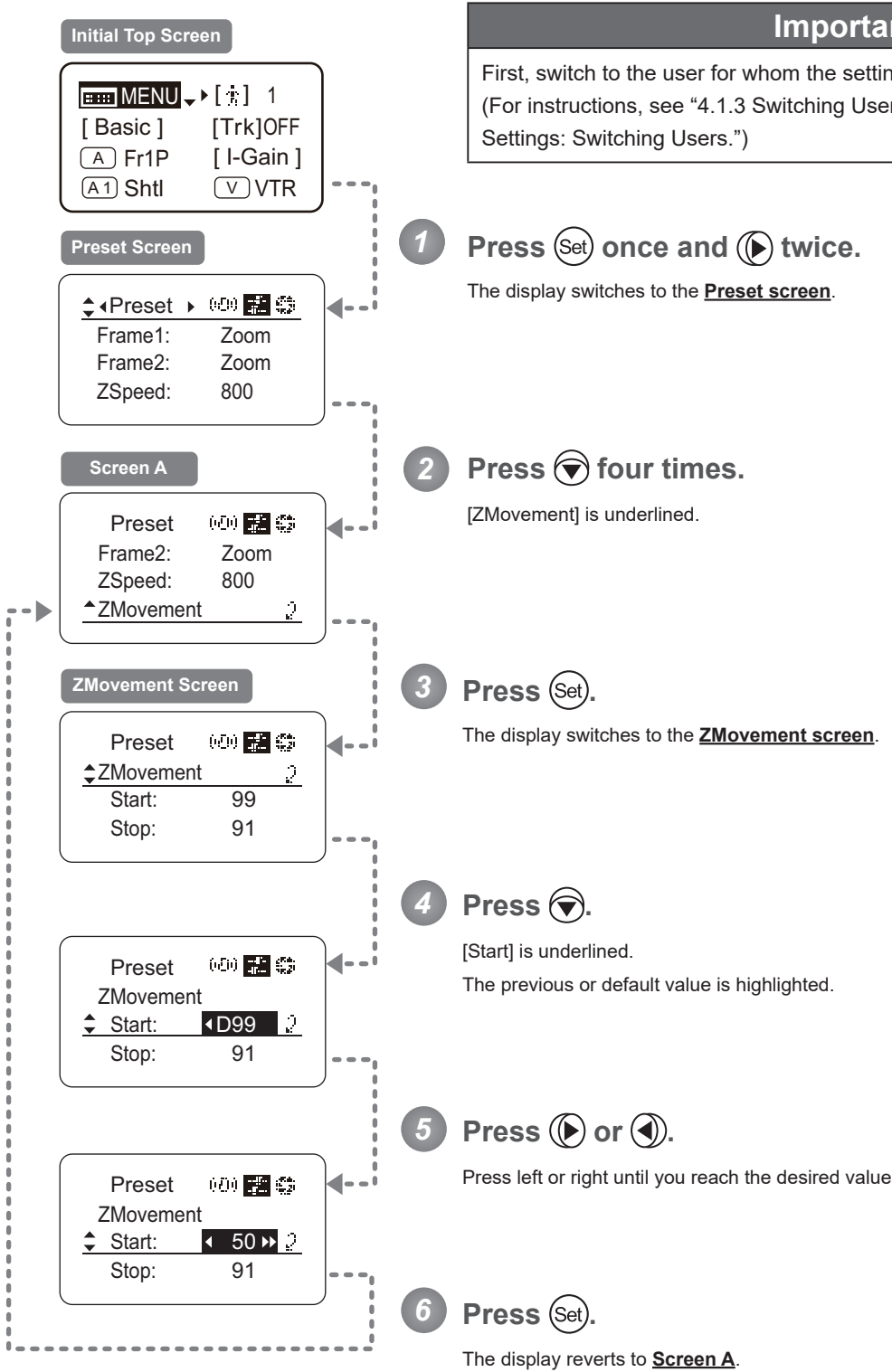


Specifying Zoom Start Responsiveness for Presets

Specify initial responsiveness in zooming for preset operations.

Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



1 Press once and twice.

The display switches to the **Preset screen**.

2 Press four times.

[ZMovement] is underlined.

3 Press .

The display switches to the **ZMovement screen**.

4 Press .

[Start] is underlined.
The previous or default value is highlighted.

5 Press or .

Press left or right until you reach the desired value.

6 Press .

The display reverts to **Screen A**.

| | | | |
|--------------------|-----------------|----|---------------|
| Options | 00 | to | (D) 99 |
| Description | Start gradually | | Start quickly |

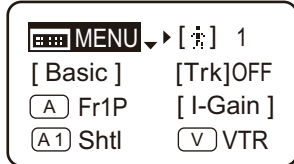
(D): Default value



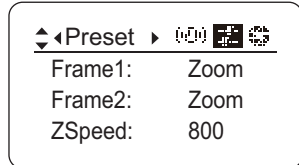
Specifying Zoom Stop Responsiveness for Presets

Specify final responsiveness in zooming for preset operations.

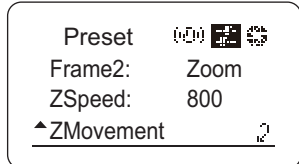
Initial Top Screen



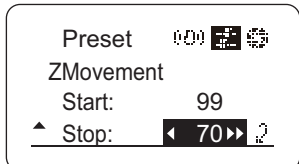
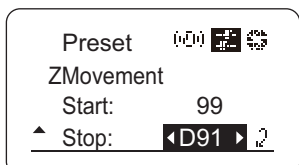
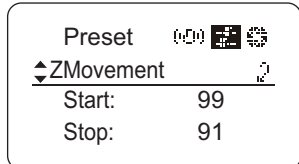
Preset Screen



Screen A



ZMovement Screen



Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

1 Press **Set** once and **Play** twice.

The display switches to the **Preset screen**.

2 Press **Down Arrow** four times.

[ZMovement] is underlined.

3 Press **Set**.

The display switches to the **ZMovement screen**.

4 Press **Down Arrow** twice.

[Stop] is underlined.

The previous or default value is highlighted.

5 Press **Play** or **Left Arrow**.

Press left or right until you reach the desired value.

6 Press **Set**.

The display reverts to **Screen A**.

| | | | |
|--------------------|----------------|----|--------------|
| Options | 00 | to | 99 |
| Description | Stop gradually | | Stop quickly |

Default value: 91



4.2.4 Iris Screen Settings

The following setting items can be configured on the Iris screen.

Specifying Iris Gain

(1) Specifying Auto Iris Gain

Top

(2) Specifying Remote Iris Gain

Top

Specifying Iris Torque

Top

Iris Compensation ON/OFF

Iris Close Detection ON/OFF

Items labeled **Top** can also be modified from the Top screen.

Specifying Iris Gain

(1) Specifying Auto Iris Gain Top

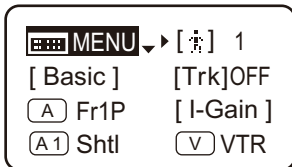
Although this value is factory-set, it can be adjusted as needed.

To adjust the value, use either the auto iris gain adjustment trimmer (refer to the operation manual “Lens”) or display operations.

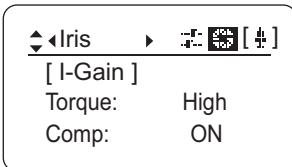
Regardless of the method of adjustment used, the most recent setting takes precedence.

The same auto iris gain value applies to all users, regardless of the current user. Thus, there is no need to switch users in advance. Unlike most other setting adjustments, any changes to this setting also apply to user 0.

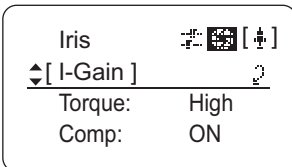
Initial Top Screen



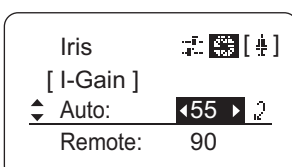
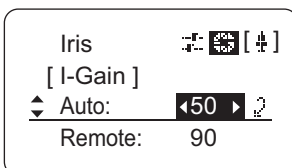
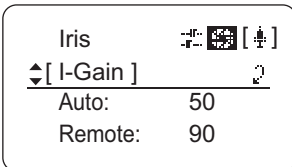
Iris Screen



Screen A



[I-Gain] Screen



1 Press Set once and ▶ three times.

The display switches to the Iris screen.

2 Press ▼.

[I-Gain] is underlined.

3 Press Set.

The display switches to the [I-Gain] screen.

4 Press ▼.

[Auto] is underlined.
The previous or default value is highlighted.

5 Press ▶ or ◀.

Press left or right until you reach the desired function.

6 Press Set.

The display reverts to Screen A.

Note: Do the following when adjusting gain while checking iris operation.

- Confirm that the drive unit A/M switch is set to [Auto] mode.
- Set the camera iris mode to [Auto].

Note: As you look at the lens iris ring, set it to the position of maximum gain at which “focus hunting” does not occur.

Note: The current iris gain value is retained even if you reset other settings as described in “4.2.1 Resetting Values.” For this reason, you will no longer be able to view the default setting. If necessary, make a note of the default setting before adjusting this value.

| | | | |
|--------------------|--------------|----|--------------|
| Options | 01 | to | 99 |
| Description | Minimum gain | | Maximum gain |

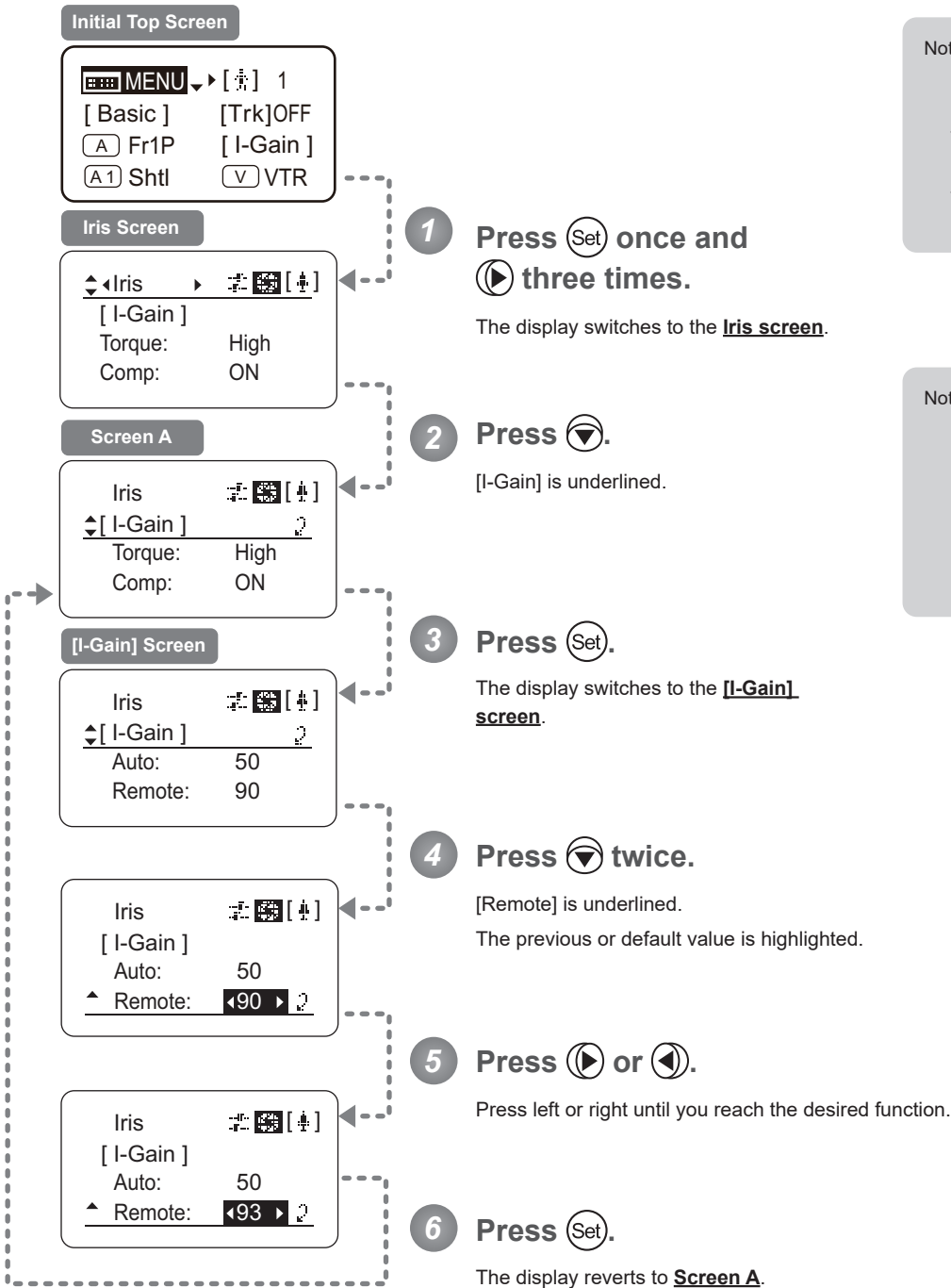
Default: Varies depending on the factory-set value, but corresponds to the value determined with the iris gain adjustment trimmer.



(2) Specifying Remote Iris Gain Top

Although this value is factory-set, it can be adjusted as needed.

The same remote iris gain value applies to all users, regardless of the current user. Thus, there is no need to switch users in advance. Unlike most other setting adjustments, any changes to this setting also apply to user 0.



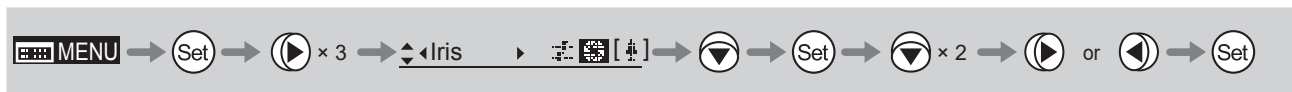
Note: Do the following when adjusting gain while checking iris operation.

- Confirm that the drive unit A/M switch is set to [Auto] mode.
- Set the camera iris mode to [Remote].

Note: The current iris gain value is retained even if you reset other settings as described in "4.2.1 Resetting Values." For this reason, you will no longer be able to view the default setting. If necessary, make a note of the default setting before adjusting this value.

| | | | |
|--------------------|--------------|----|--------------|
| Options | 01 | to | 99 |
| Description | Minimum gain | | Maximum gain |

Default value: 90



Specifying Iris Torque Top

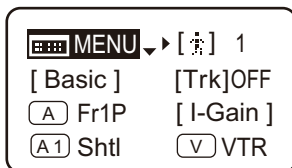
Specify the desired level of torque in manual control of the iris ring.

Important

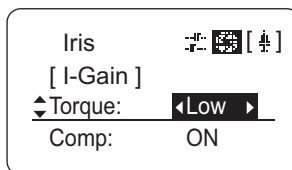
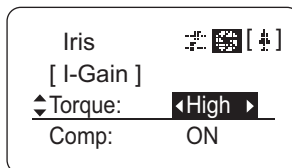
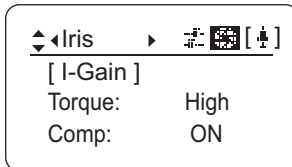
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Iris Screen



- 1 Press **Set** once and **▶** three times.

The display switches to the Iris screen.

- 2 Press **▼** twice.

[Torque] is underlined.

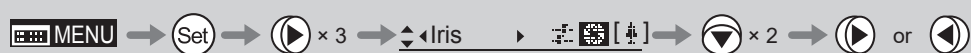
The previous or default function is highlighted.

- 3 Press **▶** or **◀**.

Press left or right to switch the function to {High} or {Low}.

| Options | ^(D) High | Low |
|-------------|---------------------|------------|
| Description | High torque | Low torque |

(D): Default value



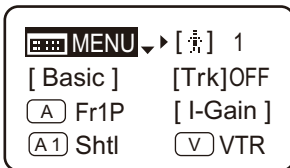
Iris Compensation ON/OFF

The amount of light decreases when an extender (2.0×) is used. Therefore, you can set a function that corrects the iris to the open side so as to maintain the amount of light.

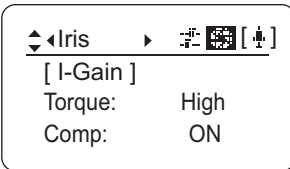
Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Iris Screen



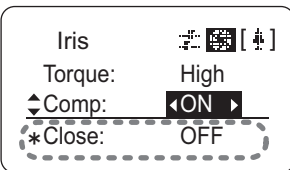
1 Press **Set** once and **▶** three times.

The display switches to the **Iris screen**.

2 Press **▼** three times.

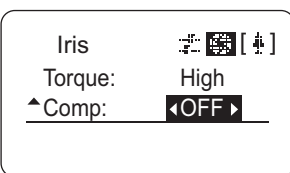
[Comp] is underlined.
The previous or default function is highlighted.

*: Displayed when {Comp} is set to ON.



3 Press **▶** or **◀**.

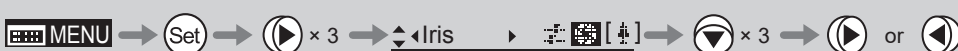
Press left or right to switch the function {ON} or {OFF}.



Note: The iris may not fully close in some cases when the iris compensation is set to ON while an extender (2.0×) is used. If so, activate detection as described in “Iris Close Detection ON/OFF.”

| Options | ^(D) ON | OFF |
|-------------|-------------------|----------------------|
| Description | Iris compensation | No iris compensation |

(D): Default value

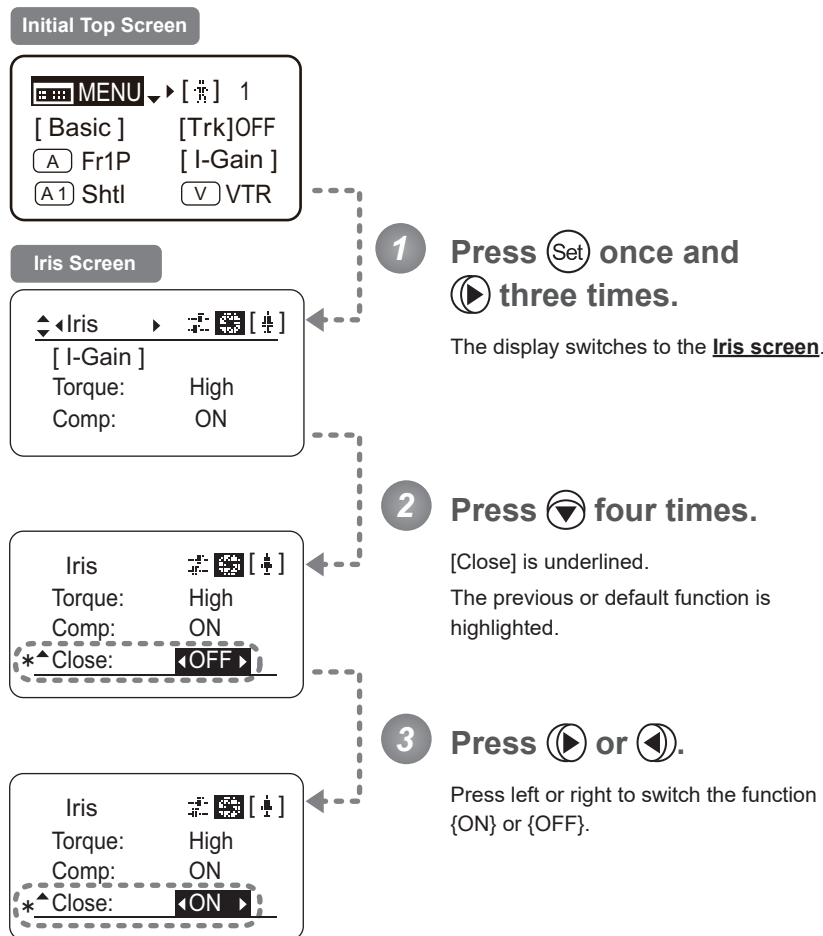


Iris Close Detection ON/OFF

The iris cannot be fully closed when correction is active and an extender (2.0×) is used. As a countermeasure, you can specify a function to detect iris close and close the iris as needed.

Important

First, switch to the user for whom the settings apply.
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



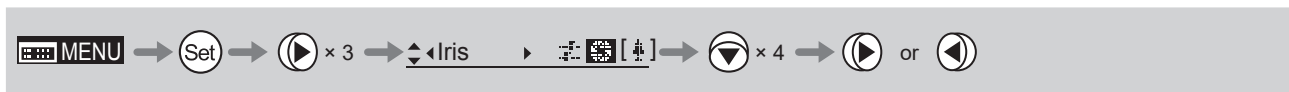
Note: With some cameras, iris compensation may conflict with iris control by the camera, preventing correct iris operation. If so, deactivate iris close detection.

*: Displayed when {Comp} is set to ON.

Note: Iris close is detected only when iris compensation is enabled.

| Options | ^(D) OFF | ON |
|-------------|--------------------|-----------------|
| Description | No close detection | Close detection |

(D): Default value



4.2.5 Zoom Screen Settings

The following setting items can be configured on the Zoom screen.

- Zoom Tracking ON/OFF **Top**
- Specifying Zoom Servo Start Responsiveness
- Specifying Zoom Servo Stop Responsiveness
- Specifying Zoom Mechanical End Stop Responsiveness
- Specifying Seesaw Switch Responsiveness **Top**
- Specifying Analog Demand Responsiveness **Top**
- Specifying Maximum Zoom Speed Control
- Specifying Minimum Zoom Speed Control
- Specifying Servo Type from Zoom Demand
- Demand-Based Zoom Speed Adjustment ON/OFF
- Specifying Zoom Demand Specifications

Items labeled **Top** can also be modified from the Top screen.

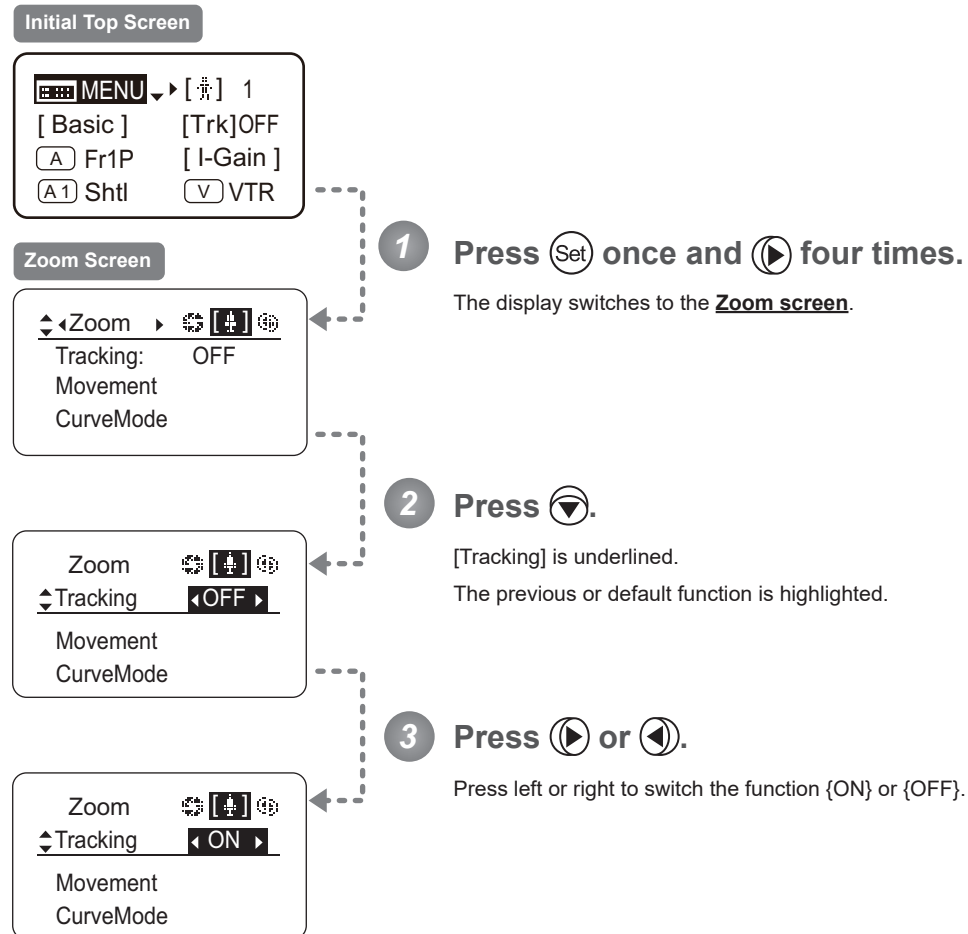
Zoom Tracking ON/OFF Top

Activate or deactivate zoom tracking as needed.

Important

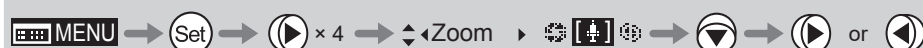
First, switch to the user for whom the settings apply.

(For instructions, see "4.1.3 Switching Users" or "4.2.1 User Screen Settings: Switching Users.")



| Options | ^(D) OFF | ON |
|-------------|------------------------|-----------------------|
| Description | Zoom tracking disabled | Zoom tracking enabled |

(D): Default value



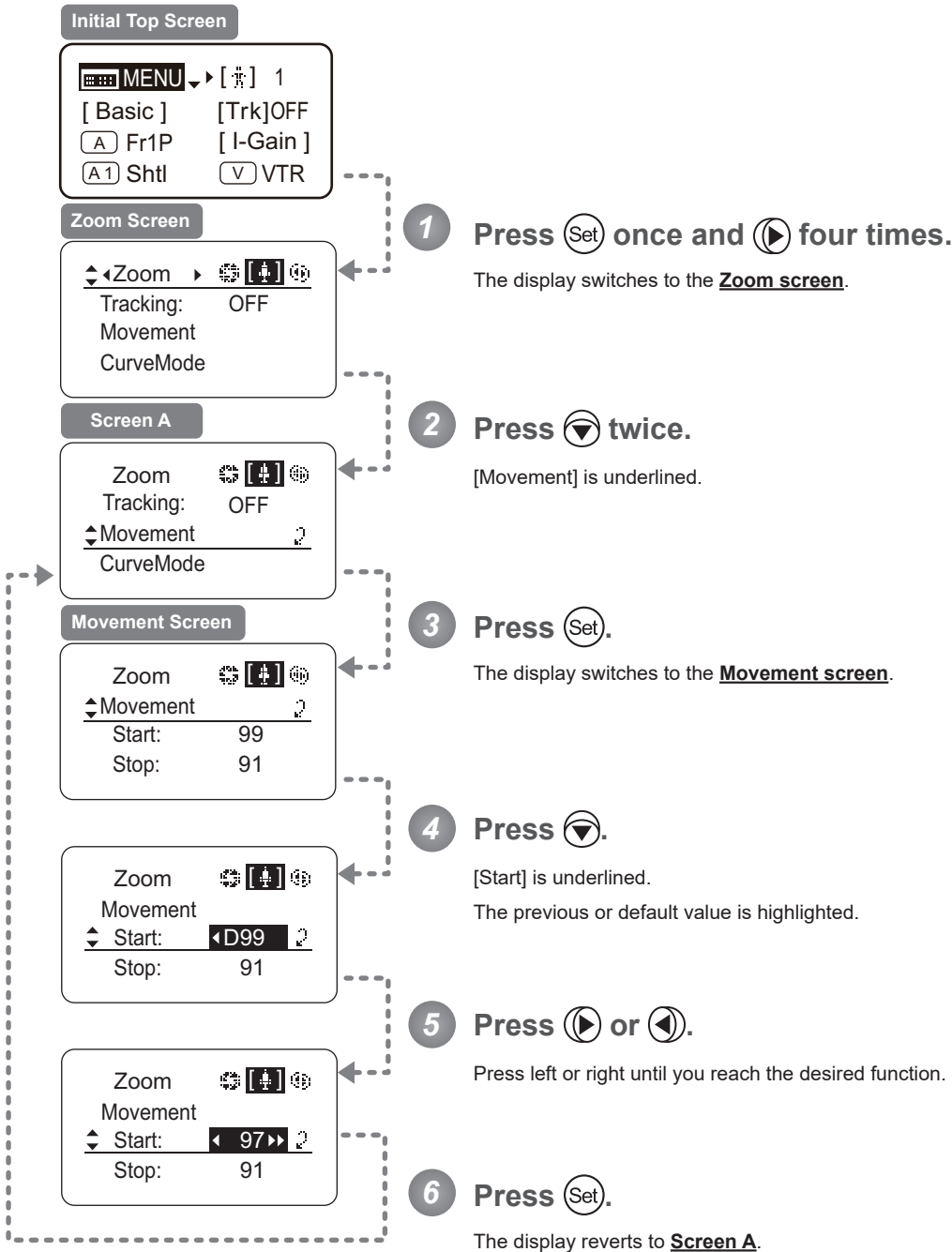
Specifying Zoom Servo Start Responsiveness

Specify initial responsiveness in zooming (using seesaw switch, for example) as needed.

Important

First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| | | | |
|--------------------|-----------------|----|-------------------|
| Options | 00 | to | ^(D) 99 |
| Description | Start gradually | | Start quickly |

(D): Default value



Specifying Zoom Servo Stop Responsiveness

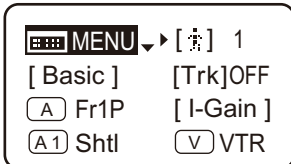
Specify final responsiveness in zooming (using seesaw switch, for example) as needed.

Important

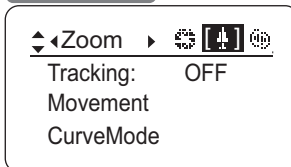
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

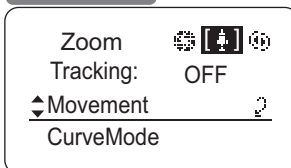
Initial Top Screen



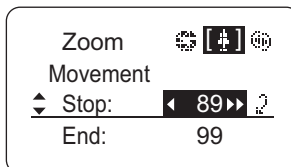
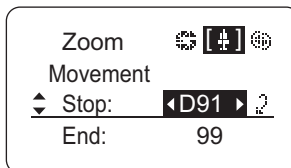
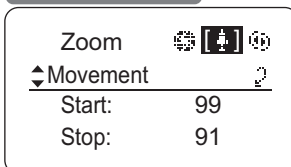
Zoom Screen



Screen A



Movement Screen



1 Press **Set** once and **▶** four times.

The display switches to the **Zoom screen**.

2 Press **▼** twice.

[Movement] is underlined.

3 Press **Set**.

The display switches to the **Movement screen**.

4 Press **▼** twice.

[Start] is underlined.

The previous or default value is highlighted.

5 Press **▶** or **◀**.

Press left or right until you reach the desired function.

6 Press **Set**.

The display reverts to **Screen A**.

| | | | |
|--------------------|----------------|----|--------------|
| Options | 00 | to | 99 |
| Description | Stop gradually | | Stop quickly |

Default value: 91



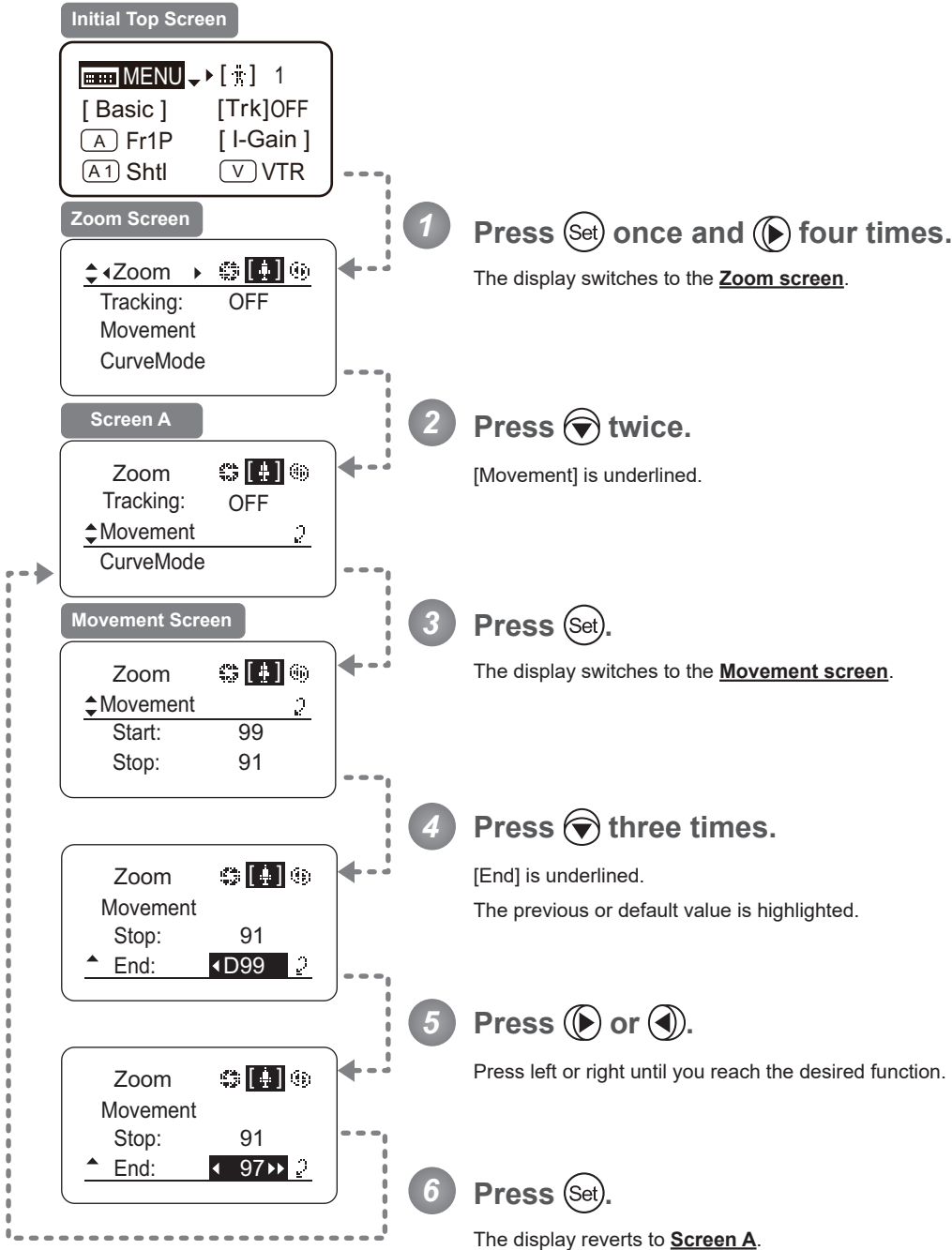
Specifying Zoom Mechanical End Stop Responsiveness

Specify final responsiveness at the mechanical end in zooming (using the seesaw switch, for example) as needed.

Important

First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



| | | | |
|--------------------|----------------|----|-------------------|
| Options | 00 | to | ^(D) 99 |
| Description | Stop gradually | | Stop quickly |

(D): Default value



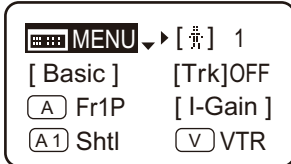
Specifying Seesaw Switch Responsiveness Top

Configure the responsiveness of zoom speed adjustment in response to pressing the zoom seesaw switch.
 (Note: Another screen is displayed when this setting is configured.)

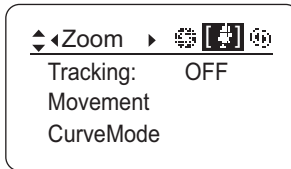
Important

First, switch to the user for whom the settings apply.
 (For instructions, see "4.1.3 Switching Users" or "4.2.1 User Screen Settings: Switching Users.")

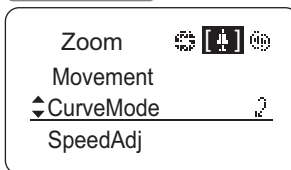
Initial Top Screen



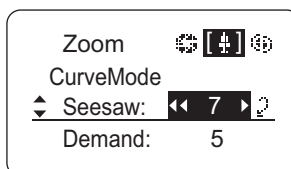
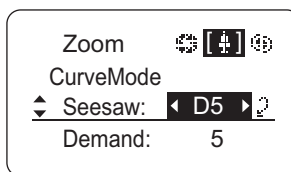
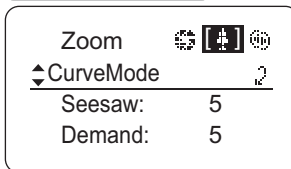
Zoom Screen



Screen A



CurveMode Screen



1 Press **Set** once and **▶** four times.

The display switches to the **Zoom screen**.

2 Press **▼** three times.

[CurveMode] is underlined.

3 Press **Set**.

The display switches to the **CurveMode screen**.

4 Press **▼**.

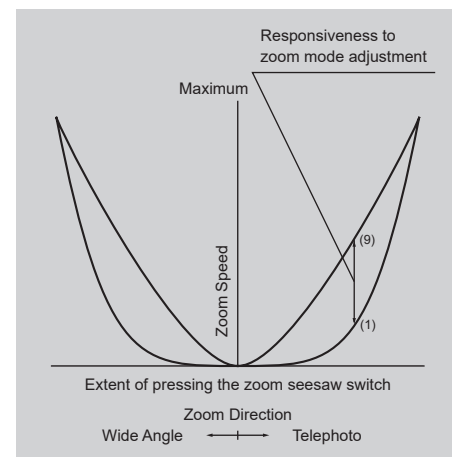
[Seesaw] is underlined.
 The previous or default value is highlighted.

5 Press **▶** or **◀**.

Press left or right until you reach the desired function.

6 Press **Set**.

The display reverts to **Screen A**.



| | | | | | | | | | |
|---------|---|---|---|---|-------|---|---|---|---|
| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|

(D): Default value



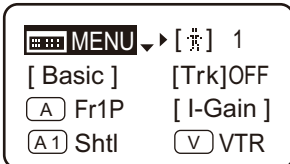
Specifying Analog Demand Responsiveness Top

Configure the responsiveness of zoom speed adjustment in response to pressing the analog demand thumb ring.
 (Note: Another screen is displayed when this setting is configured.)

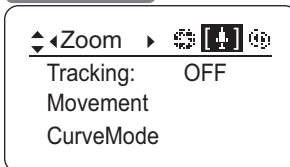
Important

First, switch to the user for whom the settings apply.
 (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

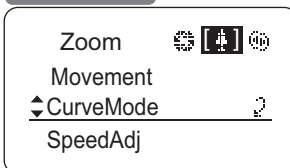
Initial Top Screen



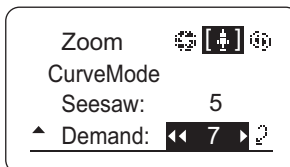
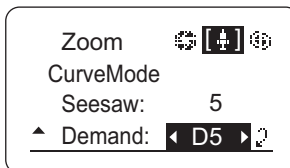
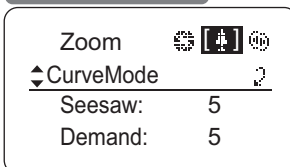
Zoom Screen



Screen A



CurveMode Screen



1 Press **Set** once and **▶** four times.

The display switches to the Zoom screen.

2 Press **▼** three times.

[CurveMode] is underlined.

3 Press **Set**.

The display switches to the CurveMode screen.

4 Press **▼** twice.

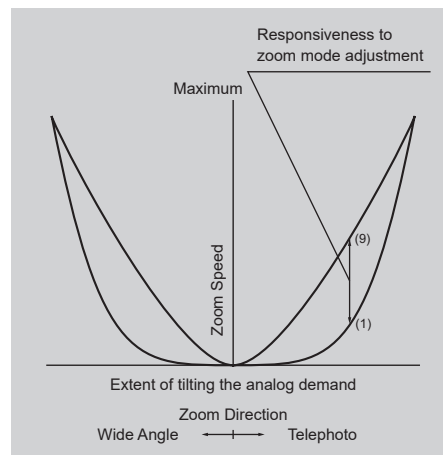
[Demand] is underlined.
 The previous or default value is highlighted.

5 Press **▶** or **◀**.

Press left or right until you reach the desired function.

6 Press **Set**.

The display reverts to Screen A.



| Options | 1 | 2 | 3 | 4 | (D) 5 | 6 | 7 | 8 | 9 |
|---------|---|---|---|---|-------|---|---|---|---|
|---------|---|---|---|---|-------|---|---|---|---|

(D): Default value



Specifying Maximum Zoom Speed Control

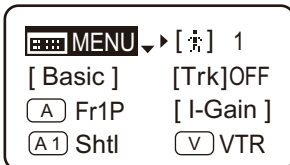
Specify the maximum speed to which the zoom speed can be adjusted using the drive unit knob.

Important

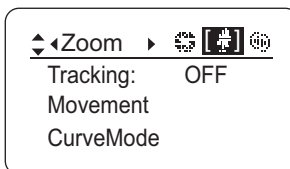
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

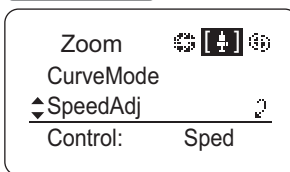
Initial Top Screen



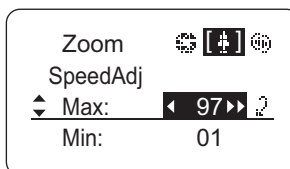
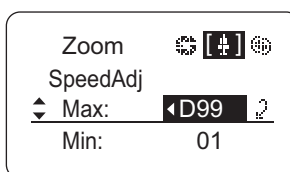
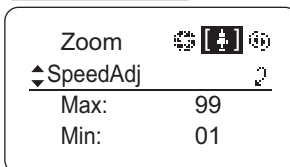
Zoom Screen



Screen A



SpeedAdj Screen



- 1 Press **Set** once and **▶** four times.

The display switches to the **Zoom screen**.

- 2 Press **▼** four times.

[SpeedAdj] is underlined.

- 3 Press **Set**.

The display switches to the **SpeedAdj screen**.

- 4 Press **▼**.

[Max] is underlined.

The previous or default value is highlighted.

- 5 Press **▶** or **◀**.

Press left or right until you reach the desired function.

- 6 Press **Set**.

The display reverts to **Screen A**.

| Options | Min. value ^(D) 99 |
|---------|------------------------------|
|---------|------------------------------|

(D): Default value



Specifying Minimum Zoom Speed Control

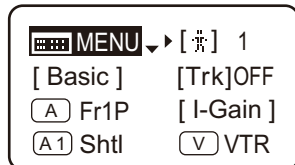
Specify the minimum speed to which the zoom speed can be adjusted using the drive unit knob.

Important

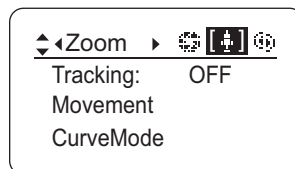
First, switch to the user for whom the settings apply.

(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

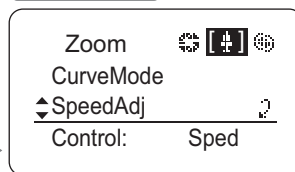
Initial Top Screen



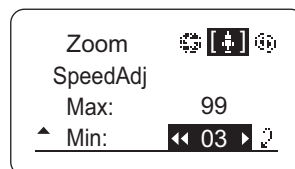
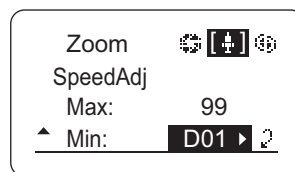
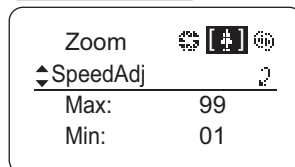
Zoom Screen



Screen A



SpeedAdj Screen



1 Press **Set** once and **Play** four times.

The display switches to the **Zoom screen**.

2 Press **Down** four times.

[SpeedAdj] is underlined.

3 Press **Set**.

The display switches to the **SpeedAdj screen**.

4 Press **Down** twice.

[Min] is underlined.

The previous or default value is highlighted.

5 Press **Play** or **Left**.

Press left or right until you reach the desired function.

6 Press **Set**.

The display reverts to **Screen A**.

| Options | 01–Max. value |
|---------|---------------|
|---------|---------------|

Default value: 01



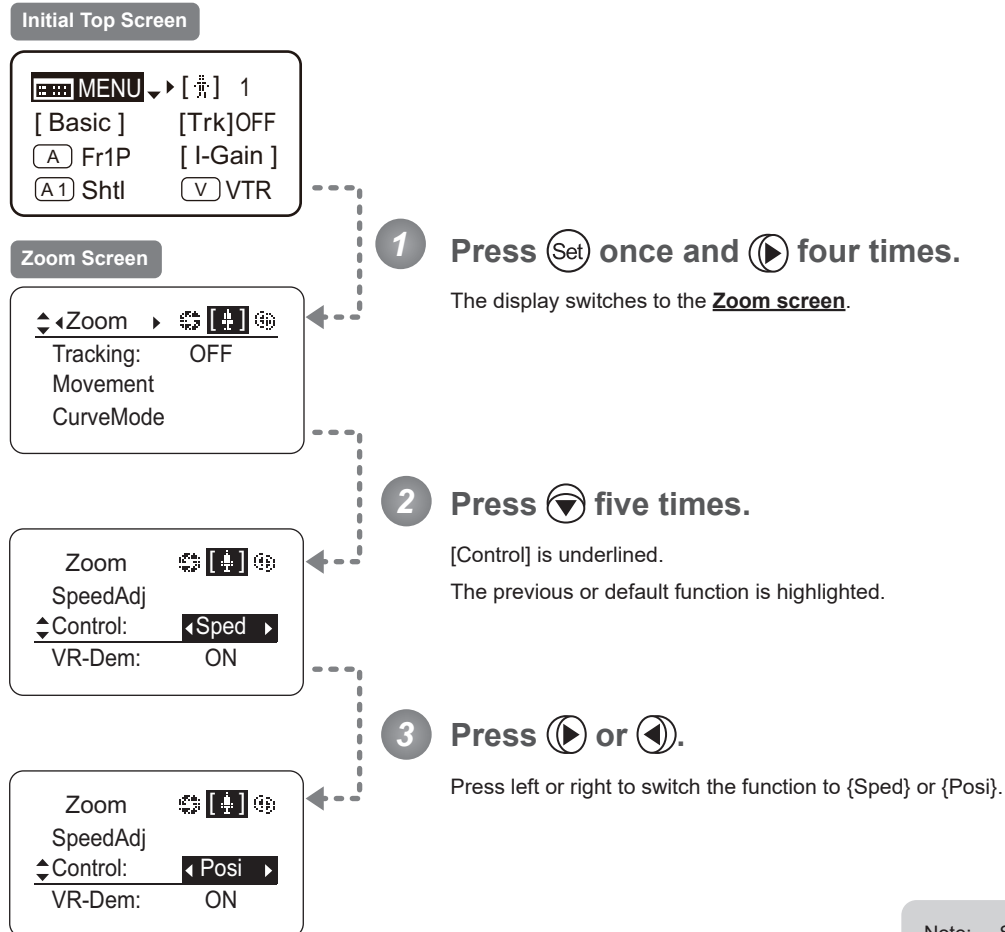
Specifying Servo Type from Zoom Demand

Specify either the speed or position servo as the type of servo to use from the zoom demand.

Important

First, switch to the user for whom the settings apply.

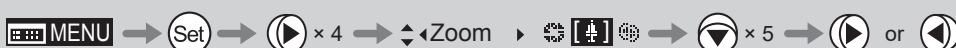
(For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)



Note: Selecting {Posi} will disable the seesaw switch. Additionally, only one demand connector can be connected when {Posi} is selected. Normally, select {Sped}.

| Options | ^(D) Sped | Posi |
|-------------|---------------------|----------------|
| Description | Speed servo | Position servo |

(D): Default value



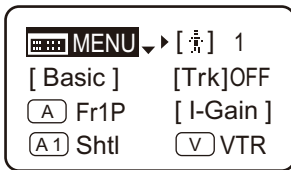
Demand-Based Zoom Speed Adjustment ON/OFF

Enable or disable adjustment of the maximum drive unit zoom speed based on the zoom demand.

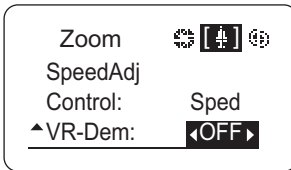
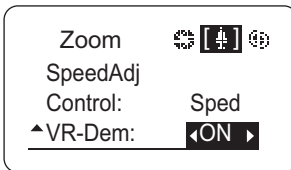
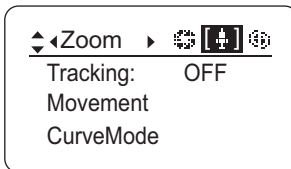
Important

First, switch to the user for whom the settings apply.
 (For instructions, see “4.1.3 Switching Users” or “4.2.1 User Screen Settings: Switching Users.”)

Initial Top Screen



Zoom Screen



1 Press **Set** once and **▶** four times.

The display switches to the **Zoom screen**.

2 Press **▼** six times.

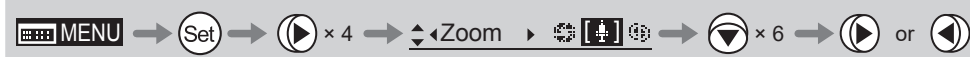
[VR-Dem] is underlined.
 The previous or default function is highlighted.

3 Press **▶** or **◀**.

Press left or right to switch the function {ON} or {OFF}.

| Options | ^(D) ON | OFF |
|-------------|-------------------|----------|
| Description | Enabled | Disabled |

(D): Default value



4.2.6 Focus Screen Settings

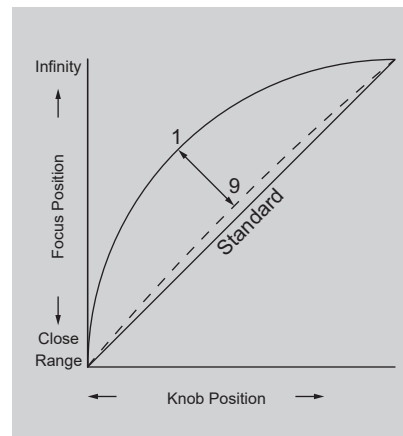
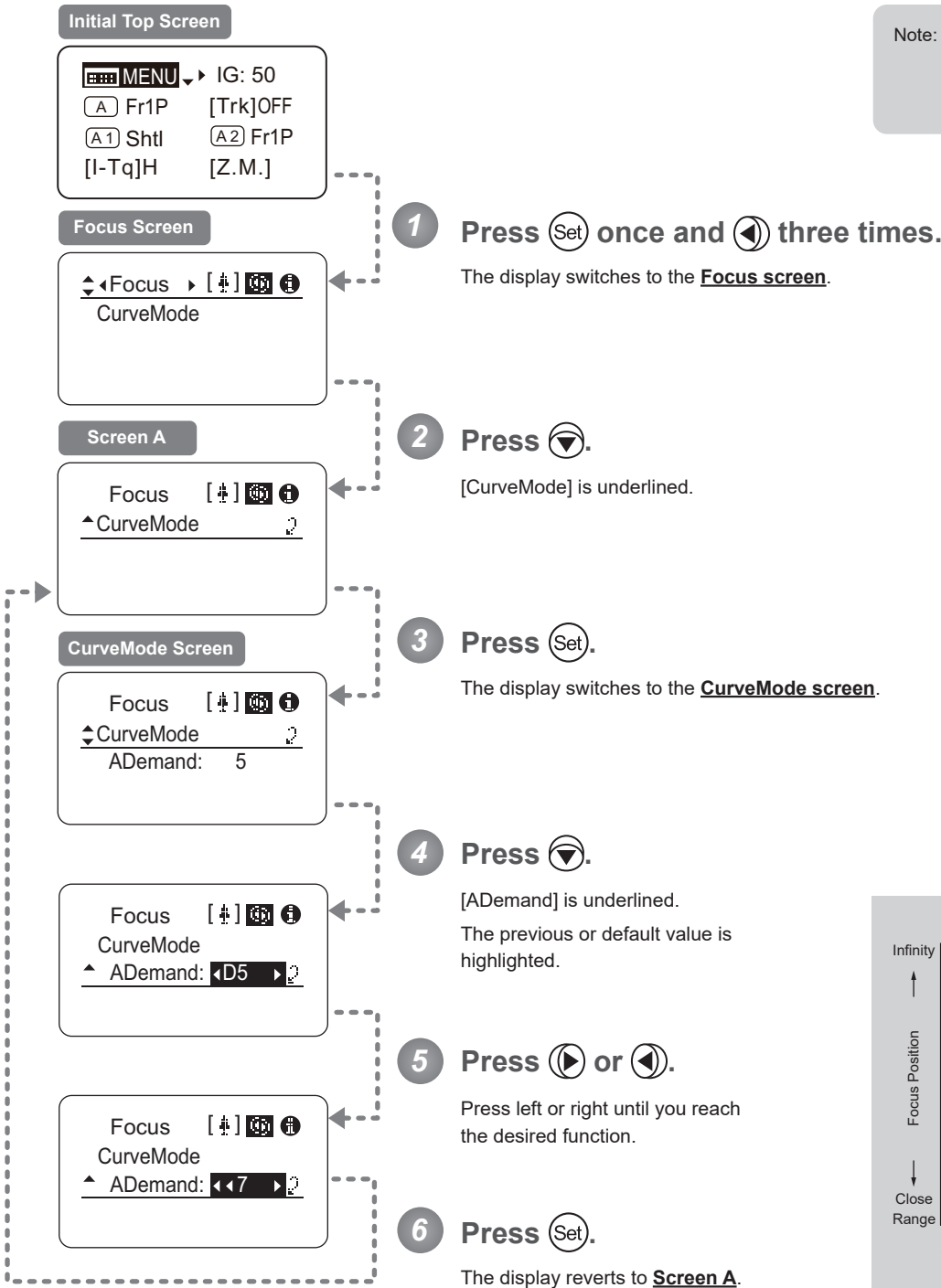
The following setting items can be configured on the **Focus screen**.

Specifying Focus Demand Responsiveness (“A” Type Lenses Only)

Specifying Focus Demand Responsiveness (“A” Type Lenses Only)

Specify responsiveness in analog focus demand operations as needed.

Note: These settings take effect when the curve selection switch on the focus demand is set toward FAR.



| Options | 1 | to | 9 |
|-------------|-------------|----|-------------|
| Description | Large curve | | Small curve |

Default value: 5



4.2.7 Info Screen Settings

The following setting items can be configured on the **Info screen**.

Specifying the 3D Function (For information on specifying the 3D function, see the instruction manual of the BC-100 3D cable.)

Specifying Encoder Output

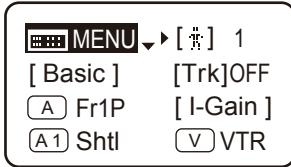
Serial Communication with Camera ON/OFF

Configuring Settings in System Mode (Used by Canon Service Technicians Only)

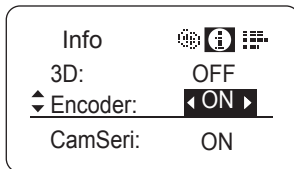
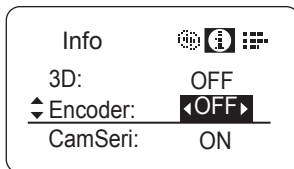
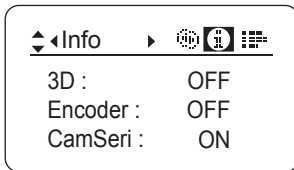
Specifying Encoder Output

Enable or disable encoder output as needed. Enabling output enables virtual connector output. For details, contact Canon or your dealer.

Initial Top Screen



Info Screen



1 Press **Set** once and **Left Arrow** twice.

The display switches to the Info screen.

2 Press **Down Arrow** twice.

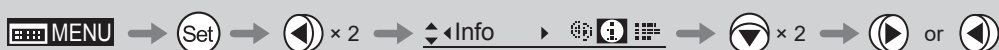
[Encoder] is underlined.

3 Press **Right Arrow** or **Left Arrow**.

Press left or right to switch the function {ON} or {OFF}.

| Options | ^(D) OFF | ON |
|-------------|--------------------|----------------|
| Description | Output disabled | Output enabled |

(D): Default value

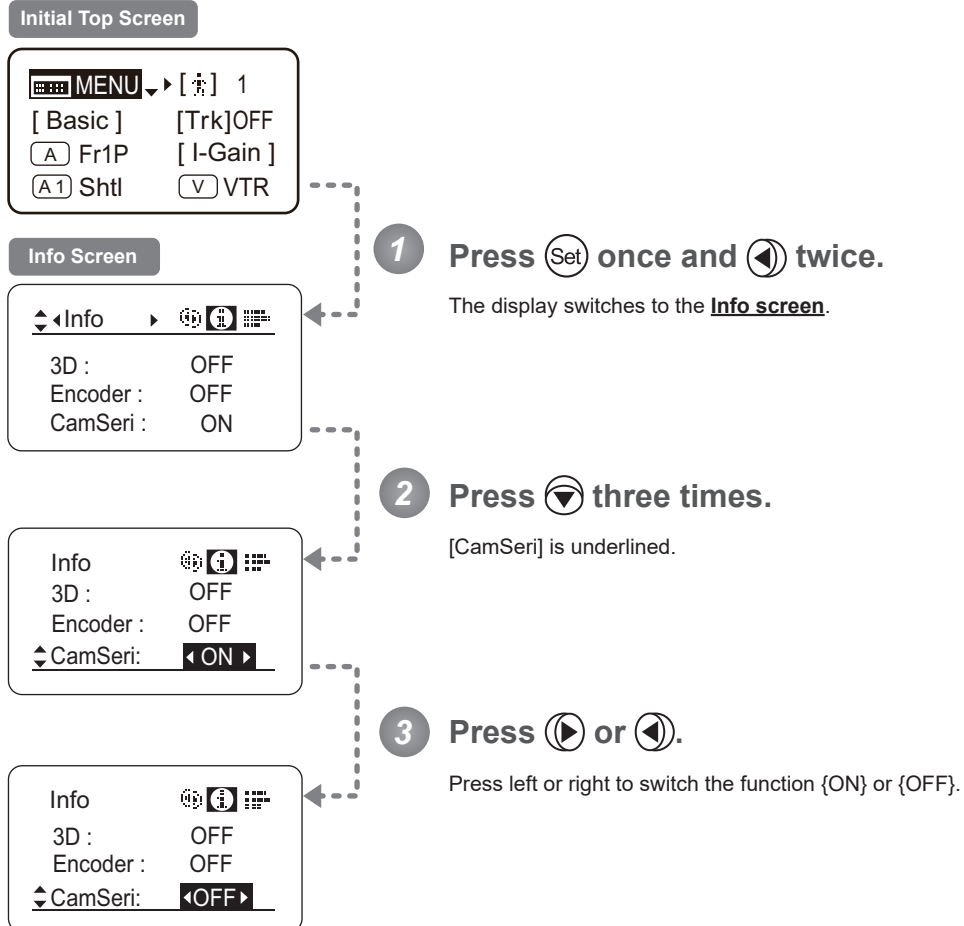


Serial Communication with Camera ON/OFF

Two types of camera–lens interfaces are available: analog control or control via serial communication. This setting enables you to switch between auto control detection and analog control.

By default, this setting is ON, enabling auto detection of whether serial or analog control is used.

To restrict the interface to analog control, set it to OFF.



| Options | ^(D) ON | OFF |
|-------------|--|---|
| Description | Serial communication with the camera Enabled | Serial communication with the camera Disabled |

(D): Default value



4.2.8 Fol. Screen Settings

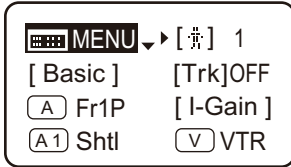
The following setting items can be configured on the **Fol. screen**.

Viewing Lens Follow Settings (Iris, Zoom, Focus)

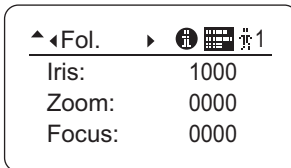
Viewing Lens Follow Settings (Iris, Zoom, Focus)

Indicates values in the full range of mechanical iris, zoom, and focus operations, expressed as relative values in the range of 0–1000.

Initial Top Screen



Fol. Screen





1 Press **Set** and then **◀**.

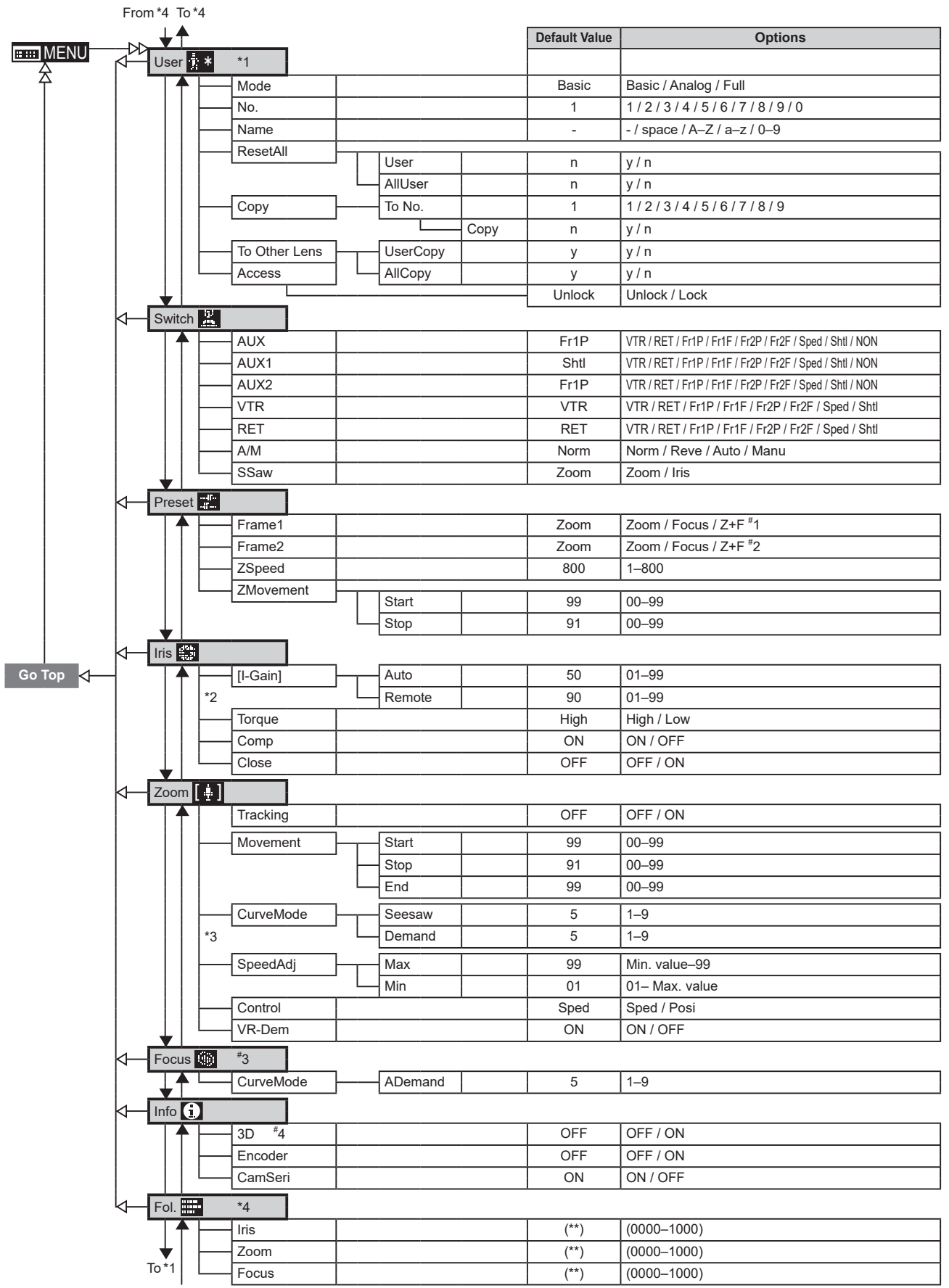
The display switches to the **Fol. screen**, showing relative follow iris, zoom, and focus values.

Note: As long as the **Fol. screen** is shown, the display will not turn off automatically after 2 minutes if left idle. To turn off the display, press the Display switch.



4.3 List of Settings

| | Default Value | Options |
|---|-------------------------------|---|
| Top | | |
| MENU | | To *1 on the next page |
| [] | 1 | 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 0 |
| [Basic] | | Basic |
| [Trk] | OFF | OFF / ON |
| (A) | Fr1P | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl / NON |
| [I-Gain] | | |
| To *2 on the next page | | |
| (A1) | Shtl | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl / NON |
| (V) | VTR | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl |
| (A2) | Fr1P | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl / NON |
| (R) | RET | VTR / RET / Fr1P / Fr1F / Fr2P / Fr2F / Sped / Shtl |
| [I-Tq] | H | H / L |
| [Z.M.] | | |
| To *3 on the next page | | |
| (AM) | Norm | Norm / Reve / Auto / Manu |
| () | Zoom | Zoom / Iris |
| Escape Operation | Jump to user 0 setting status | Hold down both the Display switch and Set key for at least 2 seconds. |



<<- : Set key operation ↓ : Right key operation
 ← : Up key operation ↑ : Left key operation

#1-2 : Only Zoom is shown for "R" type lenses.
 #3 : Not shown for "R" type lenses.
 #4 : For information on specifying the 3D communication, see the "3D Cable Instruction Manual."
 () : Indicates values that cannot be changed.

Memo

5

Operation in Analog Mode

5. Operation in Analog Mode

5.1 Configuration from the Top Screen

To access the **Top screen**, press the Display switch.

A total of 3 items can be configured on the **Top screen** in Analog mode. The first screen displayed is referred to as the **Initial Top screen**. Status of some items can be checked simply by accessing this screen.

Initial Top Screen in Analog Mode



⌨ MENU ▾ ▶ IG: 50
[Basic]

The screenshot shows a rectangular display area with a black border. At the top left, there is a keyboard icon followed by the word 'MENU' and a downward-pointing arrow. To the right of this is 'IG: 50'. Below this line, the text '[Basic]' is displayed.

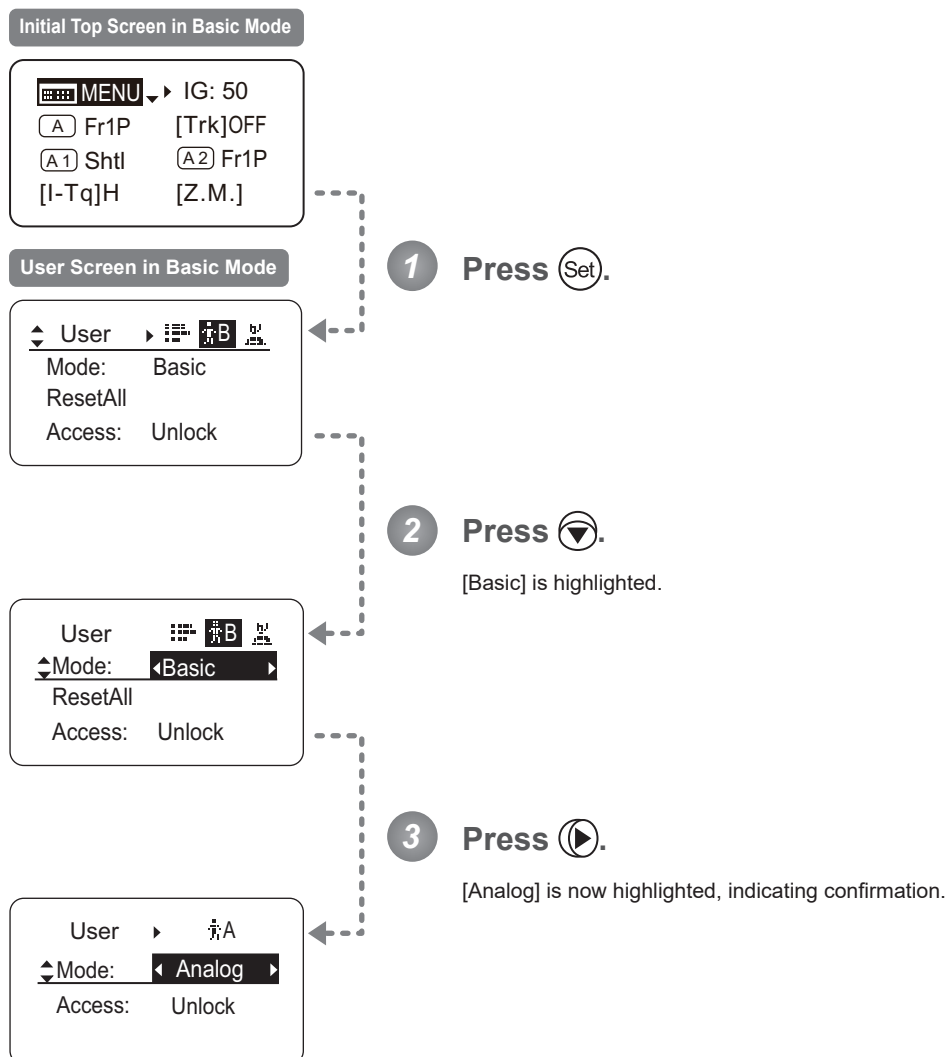
5.1.1 Selecting Analog Mode

Basic mode is the default mode, but Analog mode can be accessed as follows.

Use this mode for operation of a conventional analog drive unit. Digital functions are not available in this mode.

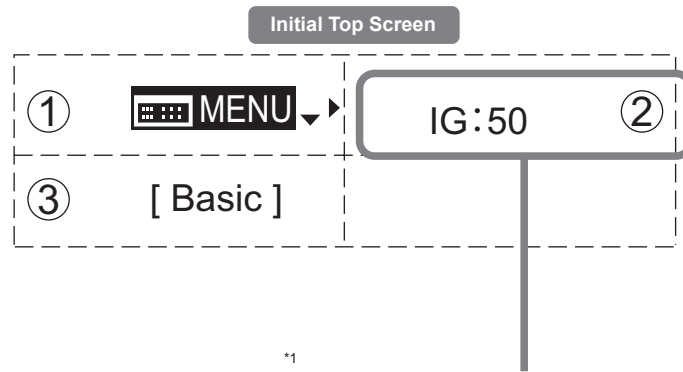
- Switches labeled VTR, RET, IRIS A/M, and IRIS INST control the respective functions. The rocker switch serves as a regular zoom switch.
- AUX and MEMO switches are disabled.
- To set auto iris gain adjustment, use either display or trimmer operations.
- Shuttle shot, frame preset, speed preset, and zoom tracking are not available.

Switching from Basic to Analog Mode




5.1.2 Top Screen

A total of 3 items can be configured on the **Top screen** in Analog mode, as shown on the **Initial Top screen**. Status of some items can be checked simply by accessing this screen. (Shown in the figure below.^{*1})



*1

Inside : Items that show the current setting status.
Example: [IG:50] indicates a value of 50 for auto iris gain.

① **Menu screen**

See "5.2 Configuration from the Menu Screen."

② **IG Auto iris gain**

Adjust the auto iris gain value as needed.

See "5.1.3 Specifying Auto Iris Gain."

③ **[Basic] Switching to Basic Mode**

Switch to Basic mode as needed.

See "5.1.4 Switching to Basic Mode."

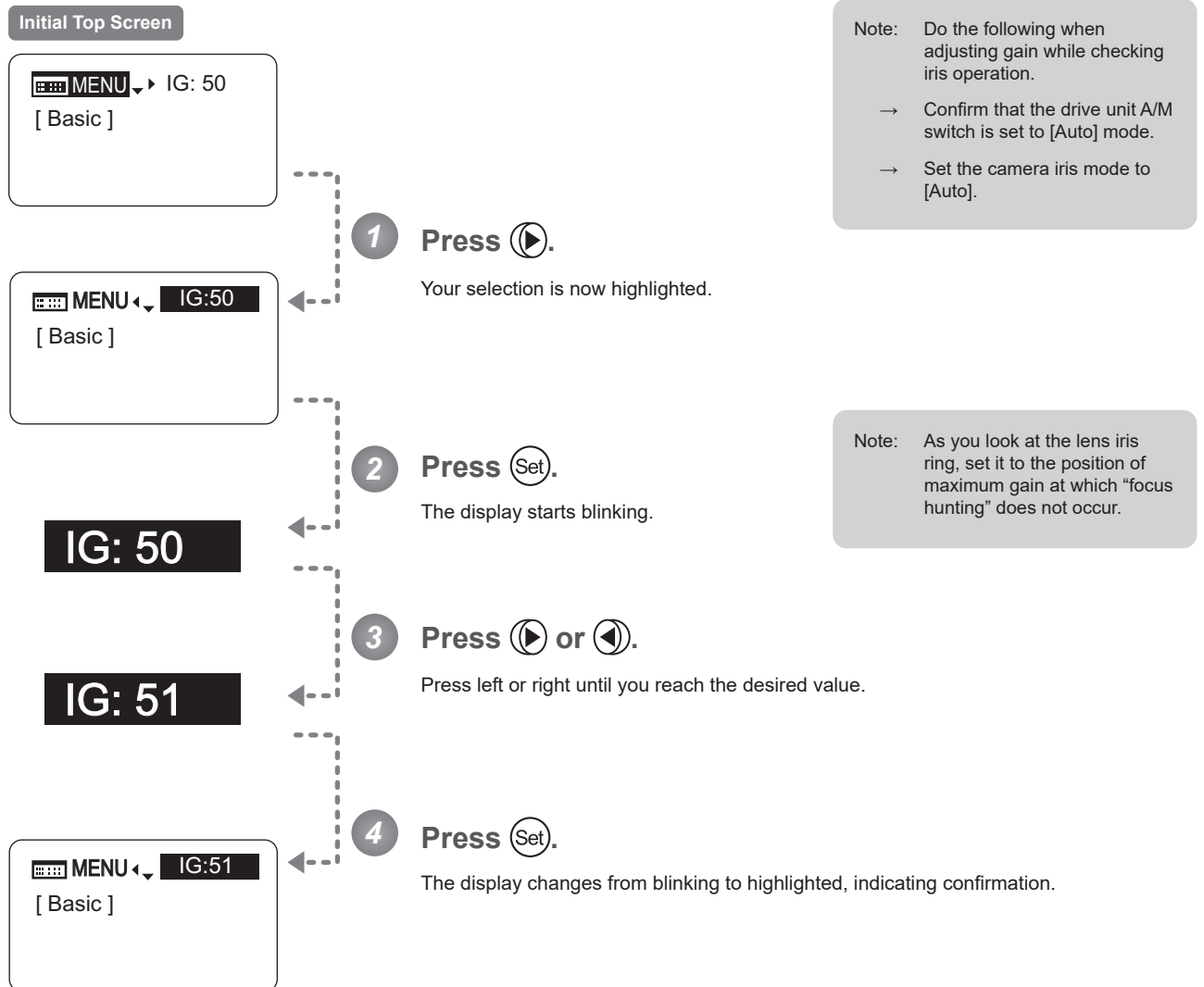
5.1.3 Specifying Auto Iris Gain

[IG]

Although this value is factory-set, it can be adjusted as needed.

To adjust the value, use either the auto iris gain adjustment trimmer (refer to the operation manual “Lens”) or display operations. Regardless of the method of adjustment used, the most recent setting takes precedence.

The same auto iris gain value applies to all users.



| Options | 01 | to | 99 |
|-------------|--------------|----|--------------|
| Description | Minimum gain | | Maximum gain |

Default: Varies depending on the factory-set value, but corresponds to the value determined with the iris gain adjustment trimmer.



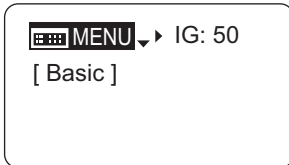
5.1.4 Switching to Basic Mode

[Basic]

Switch to Basic mode from the **Top screen** as needed.

Switching from Analog to Basic Mode

Initial Top Screen in Analog Mode



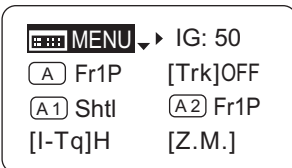
- 1 Press .
[Basic] is highlighted.



- 2 Press .

The mode switches, and the **Initial Top screen** in Basic mode is displayed.

Initial Top Screen in Basic Mode



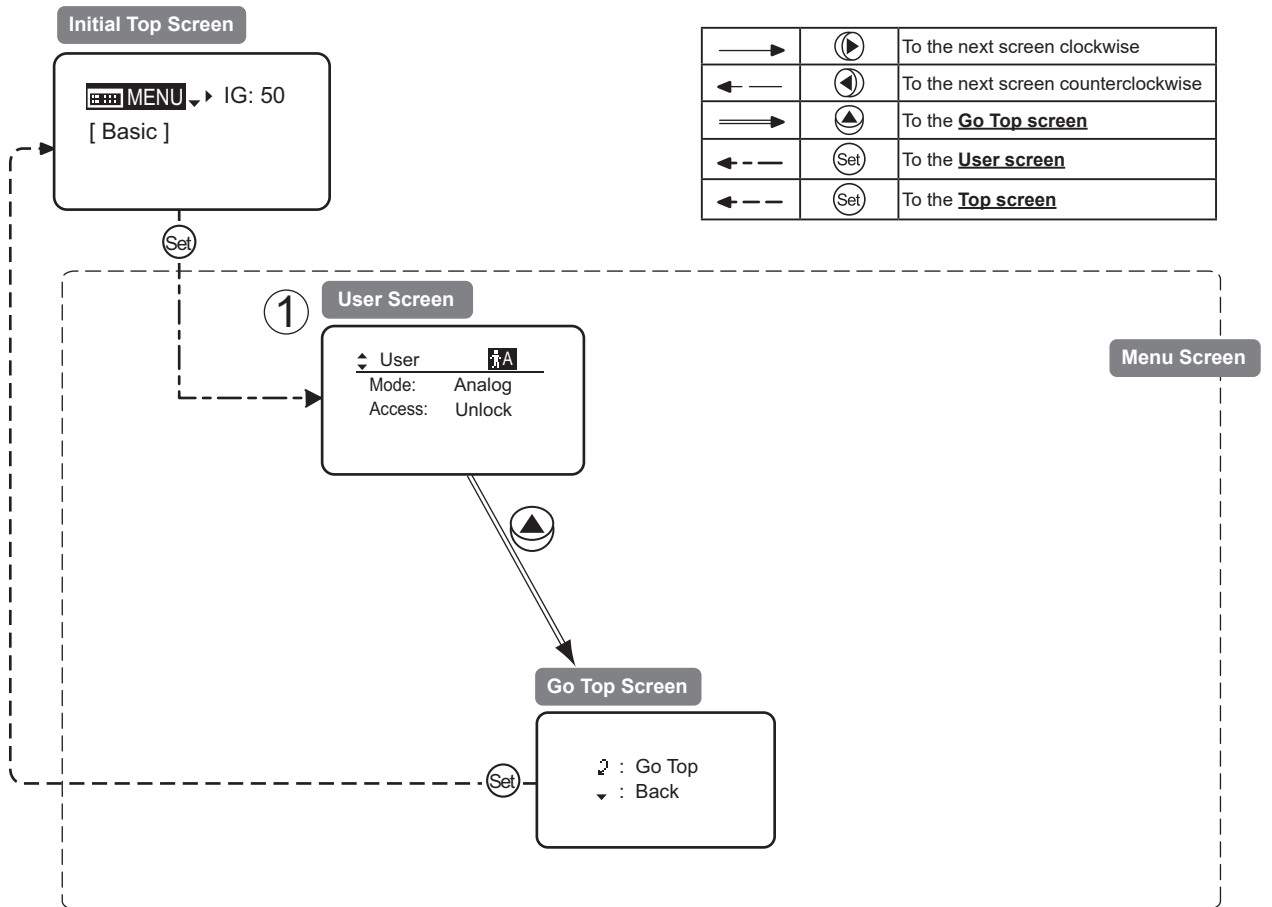
5.2 Configuration from the Menu Screen

In Analog mode, you can view and configure 2 setting items from the **Menu screen**.*

From the **Menu screen** in Analog mode, you can access a **User screen**.

Select [MENU] on the **Top screen** and press the Set key to access the **User screen**. (See the following figure.)

*: There is no single **Menu screen**. Instead, screens accessed by selecting [MENU] and pressing the Set key are collectively referred to as the **Menu screen**.



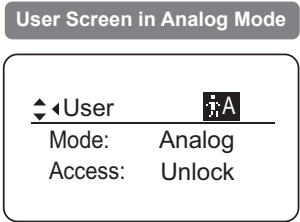
| | | |
|---|------------------|-------|
| ① | User Screen..... | 5.2.1 |
|---|------------------|-------|

5.2.1 User Screen Settings

The following setting items can be configured on the **User screen**.

Switching Modes

Locking Functions

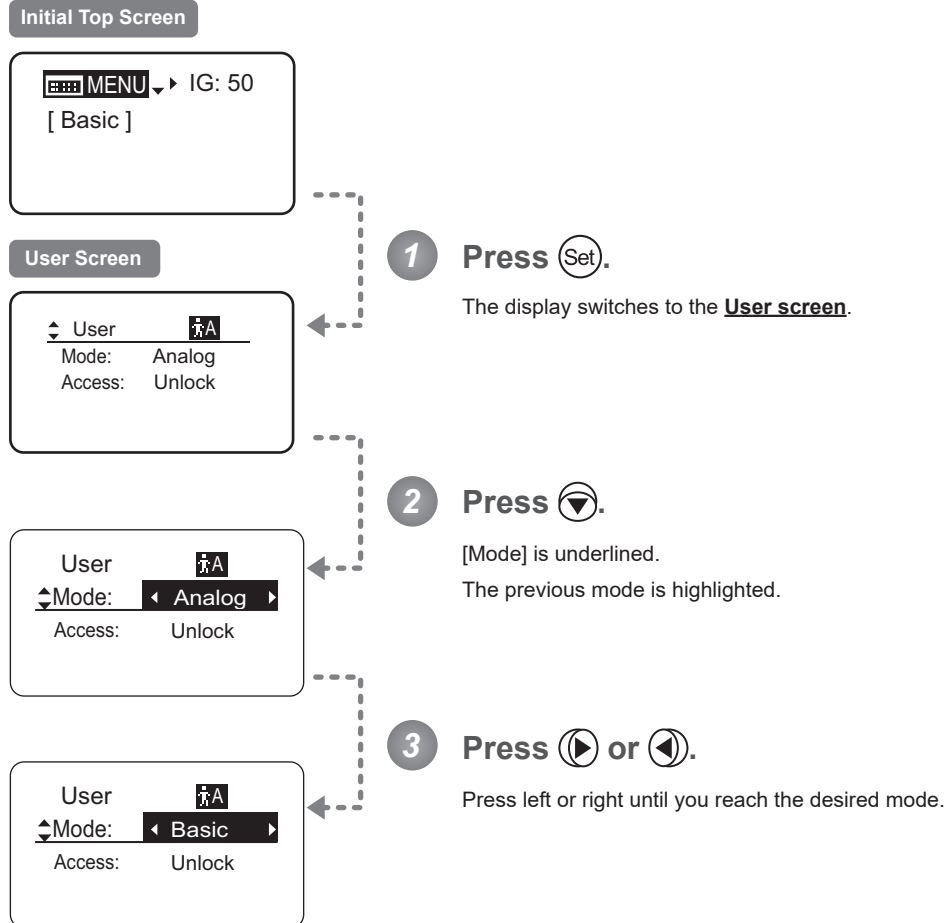


Switching Modes

Switch to Basic or Full mode, as needed.

Important

The new mode setting is retained even after the lens is turned off.



| Options | ^(D) Basic | Full | Analog |
|---------------|----------------------|-----------|-------------|
| Save Settings | Basic Mode | Full Mode | Analog Mode |

(D): Default value

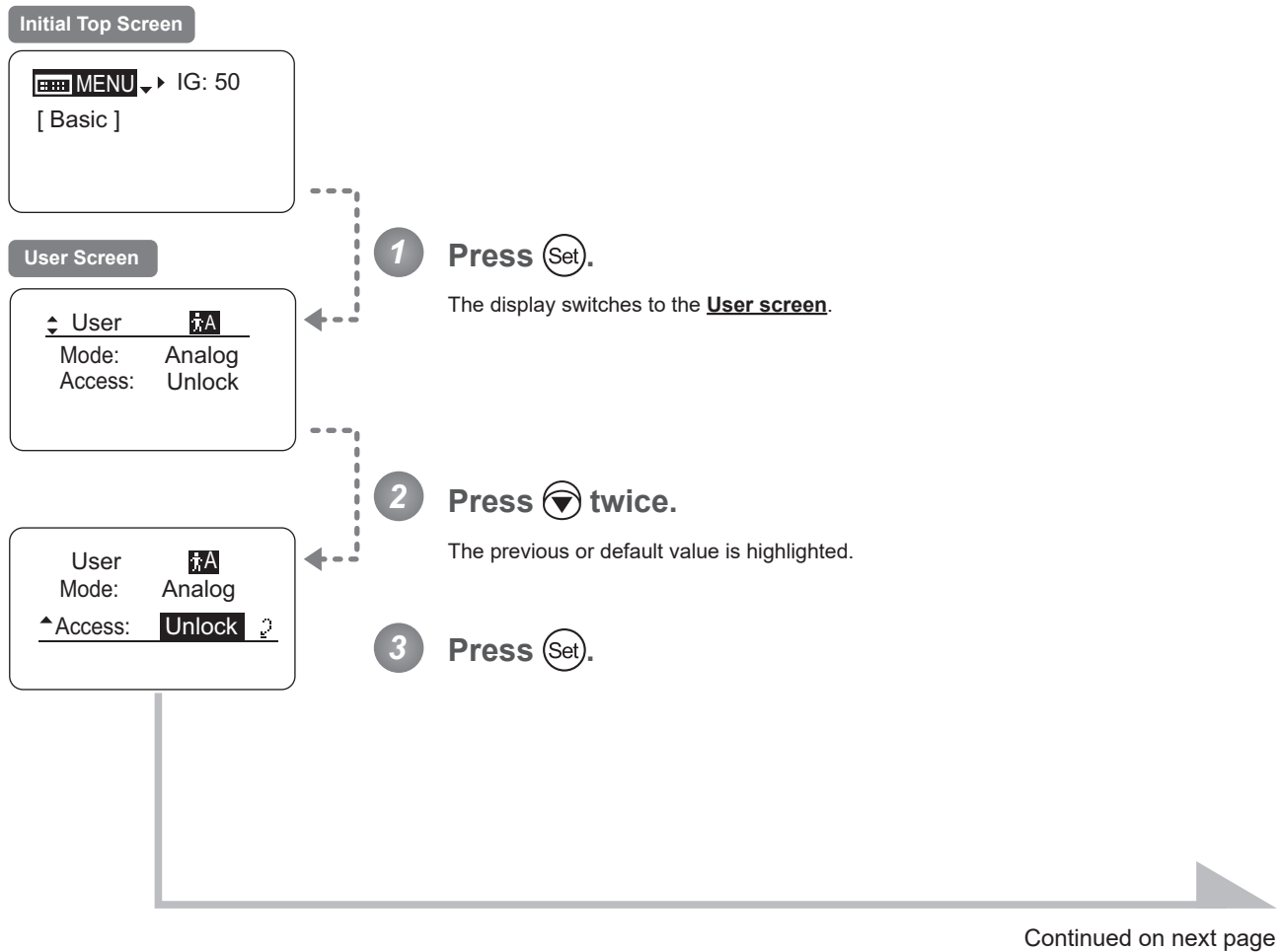


Locking Functions

To ensure that configured functions cannot easily be changed, you can lock the settings of certain functions. Once functions are locked, they are locked for all users.

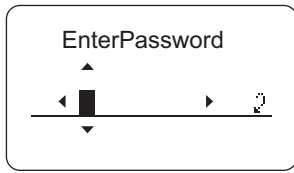
Two display operations are available in Analog mode: auto iris gain adjustment and user switching. However, you cannot switch users when functions are locked, because this function is also locked. Unlocking functions requires the password used to lock them.

(1) Locking Settings



Continued on next page

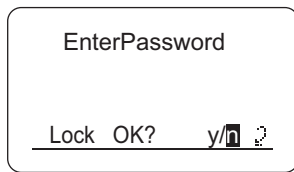
Continued from previous page



4 Enter the password and press (Set).

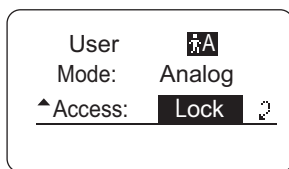
Entering Passwords

Press up/down to find characters and left/right to move the cursor or make corrections. Be careful not to press the Set key until you are finished entering the password.



5 Press (Left Arrow) and then (Set).

The settings are now locked.



Note

Passwords

No master password is used on this model. The password you enter each time to lock settings is the password used to unlock them. For this reason, we recommend making a note of the password each time. If you forget the password, contact Canon or your dealer. Passwords can be blank or up to 8 digits.

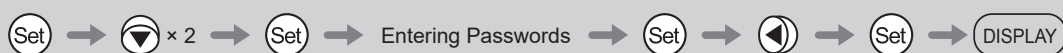
Characters supported in passwords

| | |
|--------------------|---|
| Options | ^(D) _-ABCDEFGHIJKLMN O P Q R S T U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z 0 1 2 3 4 5 6 7 8 9 |
| Max. Digits | 8 |

(D): Default value
_ : Space

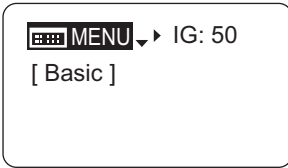
| | | |
|----------------|-----------------------|------|
| Options | ^(D) Unlock | Lock |
|----------------|-----------------------|------|

(D): Default value

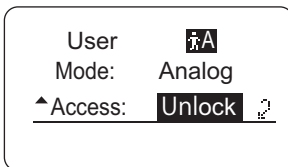
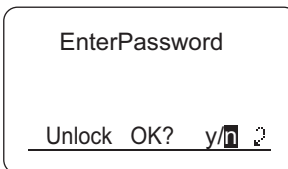
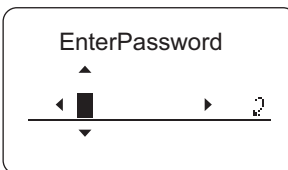
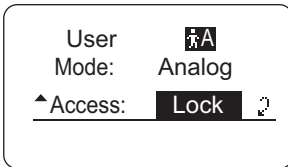
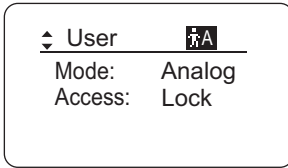


(2) Unlocking Settings

Initial Top Screen



User Screen



1 Press **Set**.

The display switches to the **User screen**.

2 Press **Down Arrow** twice.

The previous or default value is highlighted.

3 Press **Set**.

4 Enter the password and press **Set**.

Entering Passwords

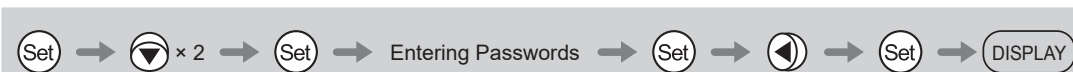
Press up/down to find characters and left/right to move the cursor or make corrections. Be careful not to press the Set key until you are finished entering the password.

5 Press **Left Arrow** and then **Set**.

The settings are now unlocked.

| Options | (D) Unlock | Lock |
|---------|------------|------|
|---------|------------|------|

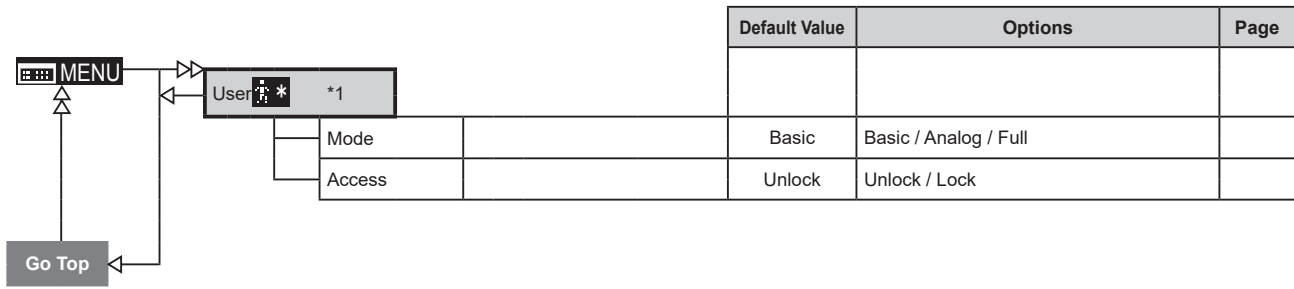
(D): Default value



5.3 List of Settings

| | | Default Value | Options | Page |
|---|-------------------------------|---|------------------------|------|
| <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">Top</div> <div style="margin-left: 10px;"> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">MENU</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">IG</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">[Basic]</div> </div> | | | | |
| | | | To *1 on the next page | |
| | | 50 | 01-99 | |
| | | | Basic | |
| Escape Operation | Jump to user 0 setting status | Hold down both the Display switch and Set key for at least 2 seconds. | | |

5. Operation in Analog Mode



| | |
|-----------------------|-------------------------|
| ⏪ : Set key operation | ⏩ : Right key operation |
| ⏴ : Up key operation | ⏵ : Left key operation |

memo



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Canon

BCTV Zoom Lens

UHDXS LENSES

CJ15ex4.3B

CJ20ex5B

CJ20ex7.8B

CJ25ex7.6B

UHDGC LENSES

CJ14ex4.3B

CJ17ex6.2B

CJ18ex7.6B

CJ18ex28B

CJ24ex7.5B

HDGC LENSES

KJ10ex4.5B

KJ17ex7.7B II

KJ22ex7.6B II

OPERATION MANUAL " Lens "

Read this operation manual before using the product.

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— FOREWORD —

Thank you for purchasing the Canon BCTV zoom lens.

This product comes with the following documents for the models mentioned below:

- Operation Manual "Before Using The Product" (Included with the product)
- Operation Manual "Regulations" (Included with the product)
- Operation Manual "Lens" (Web)
- Operation Manual "Information display" (Web)
- Quick guide "Information display" (Web)

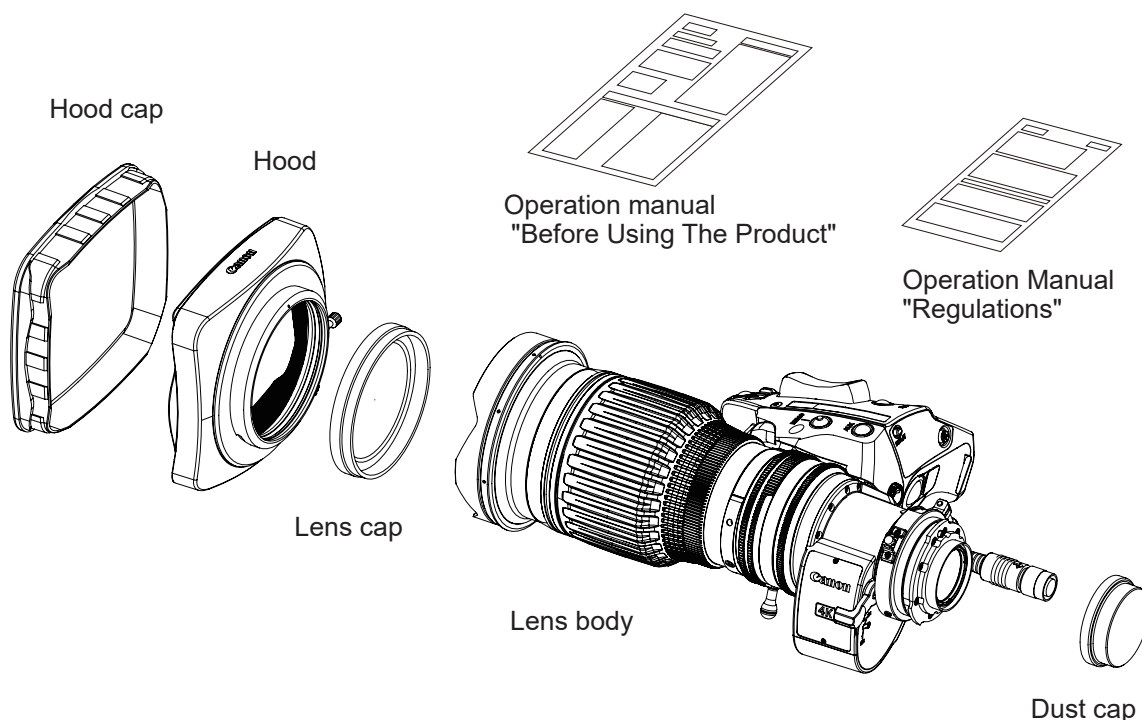
| | | IASE S | IRSE S | IASE-C S | IRSE-C S | IASE II S | IRSE II S | KASE S |
|-----------------|------------|--------|--------|----------|----------|-----------|-----------|--------|
| UHDxs LENSES | CJ15ex4.3B | ● | ● | ● | ● | | | |
| | CJ20ex5B | ● | ● | ● | ● | | | |
| | CJ20ex7.8B | ● | | ● | | | | |
| | CJ25ex7.6B | ● | ● | ● | ● | | | |
| UHDGC LENSES | CJ14ex4.3B | ● | ● | ● | ● | | | |
| | CJ17ex6.2B | ● | ● | ● | ● | | | |
| | CJ18ex7.6B | ● | ● | ● | ● | | | ● |
| | CJ18ex28B | ● | | ● | | | | |
| | CJ24ex7.5B | ● | ● | ● | ● | | | |
| HDGC LENSES | KJ10ex4.5B | ● | ● | | | | | |
| | KJ17ex7.7B | | | | | ● | ● | |
| | KJ22ex7.6B | | | | | ● | ● | |

The illustrations in this manual are used as examples.

Actual forms may vary depending on models and specifications.

STANDARD PRODUCT LIST

Make sure all of the following items are included in the packing box. If you find any item missing, please contact your dealer or Canon Inc.





Accessories other than those mentioned above may be required depending on the specifications of your unit. For details, contact your dealer or Canon Inc.

GENERAL SAFETY INFORMATION

The safety warnings and cautions provided on the product or in this operation manual must be observed. Failure to observe these warnings and cautions may result in injury or accident. Read this operation manual carefully to familiarize yourself with its contents and ensure that you can operate the product properly. Also, store this manual in a safe place where it can easily be referenced whenever necessary.

This operation manual uses the following symbols and terms to identify hazards in order to prevent accidents.

| | |
|--|--|
|  WARNING | This indicates a potentially hazardous situation which, if not heeded, may result in death or serious injury to you or others. Be sure to heed all warning notices to ensure safe operation at all times. |
|  CAUTION | This indicates a potentially hazardous situation which, if not heeded, may result in a minor injury to you or others, or damage to property. |
| NOTE | This indicates cautions and recommendations for operation. It contains information which, if not heeded, may result in this product failing to function properly. These notices also contain useful information for operation. |

HANDLING THE PRODUCT

WARNING

1. Do not get this product wet or allow liquid inside. If water gets inside, stop using the product immediately. Continuing to use the product under this condition may cause a fire or electric shocks.
2. Do not stare at the sun or other bright objects through the lens. It may injure your eyes.
3. Be sure to hold the connector when disconnecting the cable. Pulling on the cable may sever or damage it and pose a risk of a fire or electric shocks from a short circuit.

CAUTION

1. Be careful not to drop the product when carrying it. Dropping the product may cause injury.
2. Ensure that all mountings are securely tightened. If a mounting becomes loose, parts may fall off and cause injury.
3. Inspect mountings regularly (about every six months to one year) to ensure they are securely tightened. If a mounting becomes loose, parts may fall off and cause injury.
4. When this product is used under a blazing sun, the inside of the unit may be heated to high temperature. When it is expected that the unit is exposed to elevated temperature, take measures against heat as appropriate on the customer's side.

NOTE

1. Striking or dropping the lens may cause the malfunction of the product.
2. This product is not waterproof. Take measures to avoid direct contact with rain, snow, or moisture. Otherwise it may cause the malfunction of the product.
3. In dusty environments, cover the lens mount when using, attaching or removing the lens. If dust enters inside, it may cause the malfunction of the product.
4. Take measures to avoid sudden changes in temperature where the lens is used, which may prevent operation temporarily if condensation forms in the lens.
5. Before use in particular environments, such as places where chemical products are used, contact your Canon sales representative or dealer.

DEALING WITH ABNORMALITIES

WARNING

Should any of the abnormalities described below occur, immediately dismount the lens from the camera and contact your Canon sales representative or dealer.

- Smoke, fumes, or unusual noises
- Entry of foreign objects (such as liquid or metal objects) inside the product

MAINTENANCE AND INSPECTION

WARNING

Be sure to disconnect the cable and remove the lens from the camera before cleaning outside of the lens. Do not use benzene, thinner, or other flammable substances to clean the product. Otherwise it may cause a fire or electric shocks.

NOTE

1. Clean off any dust on the lens surface using a lens blower or a soft lens brush. In case of getting fingerprints or stains on the lens, use a clean cotton cloth moistened with commercial lens cleaning fluid, or use lens cleaning paper. Gently wipe in a spiral pattern from the center of the lens. Be careful not to rub dust across the lens, which may scratch the lens surface
2. Routine inspection about once a year is recommended, depending on the conditions and environment of use. Request overhaul, if needed.

STORAGE

CAUTION

Always attach the lens cap, hood cap, dust cap or covers before storage. Storing the lens without the caps or covers attached poses a risk of fire if the lens concentrate light in direct sunlight.

NOTE

1. Immediately wipe off any moisture on the lens from misty or foggy environments, using a dry cloth. Seal the lens in a plastic bag with a desiccant (preferably new) to prevent moisture inside. Otherwise it may cause the mold or the malfunction of the product.
2. Before using the product with the separately available carrying case, contact your Canon sales representative or dealer. Components such as adhesives used in the carrying case may have an adverse effect on the product.

TO THE CUSTOMER

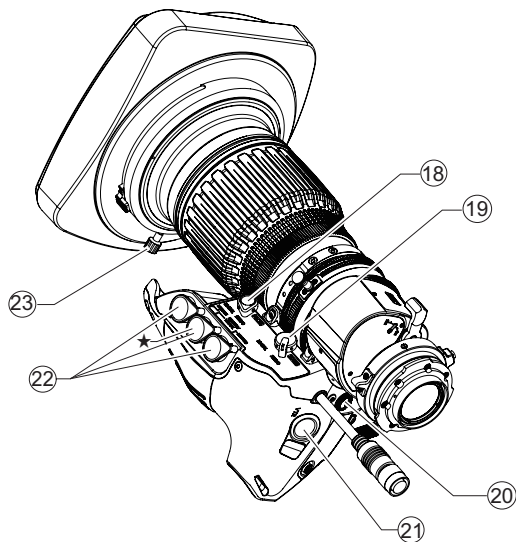
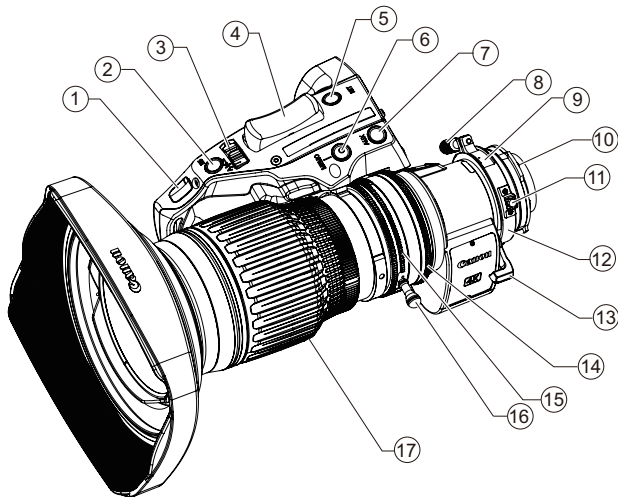
1. Canon shall bear no responsibility for damage resulting from improper operation of this product by the customer.
2. Canon shall make no guarantees about the product quality, functions, or operation manual and its marketability and suitability for the customer's purpose.
Moreover, Canon shall bear no responsibility for any damage, direct or incidental, that results from usage for the customer's purpose.
3. The product specifications, configuration, and appearance are subject to change without prior notice.
4. For further information on repairs, maintenance, or adjustments not mentioned in this operation manual, contact your Canon sales representative or dealer.
5. Note that Canon may be unable to undertake servicing or repair of a product if it is modified without consulting Canon or your Canon sales representative.

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| | | |
|--------------------------|---|-----|
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| 2 HOW TO MOUNT | 2-1. MOUNT THE LENS ON THE CAMERA 2-2. MOUNT THE HOOD ON THE LENS 2-3. TURN IT ON | E3 |
| 3 ADJUSTMENT | 3-1. BACK FOCUS ADJUSTMENT 3-2. IRIS GAIN ADJUSTMENT | E4 |
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| 5 OPERATION | 5-1. ZOOM OPERATION 5-2. FOCUS OPERATION 5-3. EXTENDER OPERATION (Excluding KASE S type lens) 5-4. IRIS OPERATION 5-5. MACRO OPERATION 5-6. SWITCH OPERATIONS | E7 |
| 6 PRODUCT SPECIFICATIONS | | E15 |
| APPENDIXES | TECHNICAL INFORMATION | END |

1 NOMENCLATURE



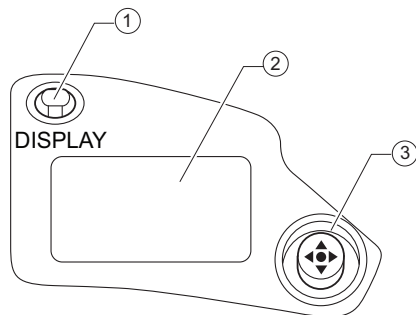
- ① Iris Gain Adjusting Trimmer
- ② Instant Auto-Iris Switch
- ③ Iris Operation Mode Change-over Switch
- ④ Zoom Rocker Seesaw
- ⑤ RET Switch (Video Return Switch)
- ⑥ Memo Switch (Memory Switch)
- ⑦ AUX Switch
- ⑧ Flange Back Lock Screw
- ⑨ Flange Back Adjusting Ring
- ⑩ Locating Pin
- ⑪ Macro Button
- ⑫ Macro Ring
- ⑬ Extender Lever
- ⑭ Iris Ring
- ⑮ Zoom Ring
- ⑯ Zoom Lever
- ⑰ Focus Ring

NOTE) Excluding KASE S type lens.

- ⑱ Focus Servo/Manual Change-over Knob
- ⑲ Zoom Servo/Manual Change-over Knob
- ⑳ Max. Zoom Speed Adjusting Volume
- ㉑ VTR Switch
- ㉒ Remote Connectors (20-pin)
- ㉓ Hood Lock Knob

NOTE) Virtual output port is Connector ★ only.
Use these connectors to connect the control accessory (equipped with a 20 pin connector) for zooming or focusing. Connector ★ is also used to connect to the interface of such as virtual system. It can output each positioning signal of zoom, focus, and iris.

Information Display (Digital Drive Unit)



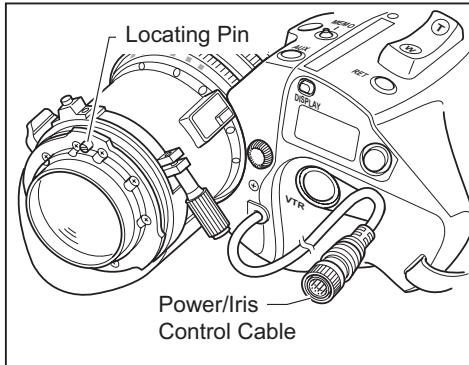
- ① Display Switch
Used to turn the display ON/OFF.
- ② Display
It turns off if left for 2 minutes without operation.
- ③ Control key
Used to move the cursor up/down/left/right. Press the center to confirm.

For the operation of the digital drive unit, refer to Operation Manual "Information display".

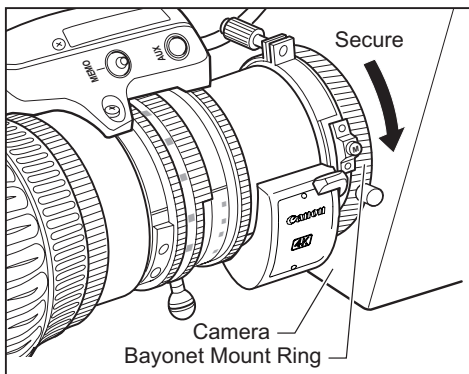
2 HOW TO MOUNT

2-1. MOUNT THE LENS ON THE CAMERA

Before mounting the lens on the camera, make sure that the camera's power is turned off.



- 1 Remove the dust cap from the lens.
- 2 Align the lens locating pin to the groove on the camera mount to fit the lens to the camera mount.
- 3 Turn the bayonet mount ring on the camera to secure the lens.
- 4 Connect the power/iris control cable of the lens to the camera.

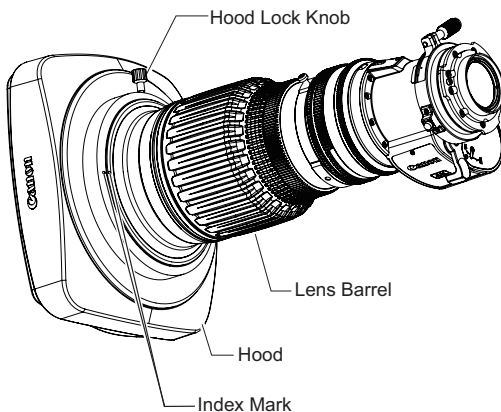


NOTE

1. Never hold the lens, drive unit and band portion to support the entire weight of the camera. Excessive force to the mount portion and drive unit of the lens may result in damage to the lens mechanism.
2. Rated voltage: 12 VDC
Normal operation range: 10 to 17 VDC
If a battery or adapter is used, the output voltage may be higher than the rated voltage depending on the manufacturers and therefore the above voltages must be observed strictly. If a voltage outside the normal operation range is used, the drive unit may be damaged. And the lens power input has the positive and negative polarities. Make sure to connect the power cable to the correct polarity when connecting the batteries or the adaptors. Connecting the cable to the incorrect polarity may cause the damage to the product.

2-2. MOUNT THE HOOD ON THE LENS

The lens cap is attached to the lens at the factory. Please remove the lens cap before mounting the hood.



- 1 Fit the hood on the front of the lens barrel.
- 2 Align the index marks on the hood and lens barrel.
- 3 Tighten the hood lock knob.

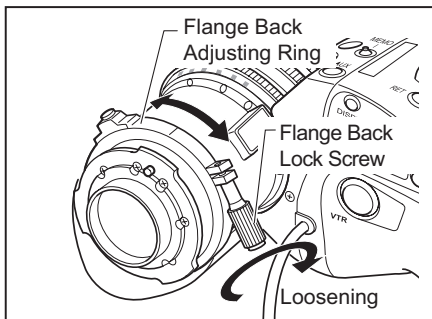
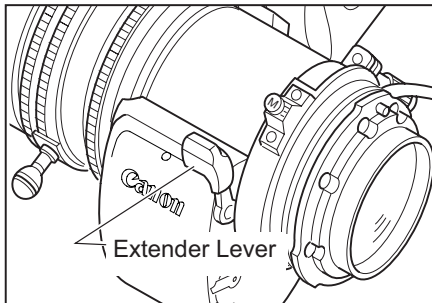
2-3. TURN IT ON

Turn on the camera, and the power of the lens will be supplied.

3 ADJUSTMENT

3-1. BACK FOCUS ADJUSTMENT

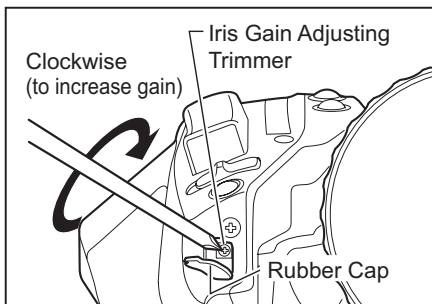
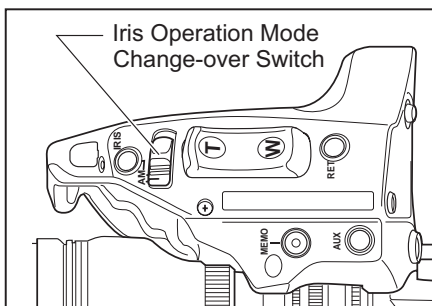
If the relationship between the image plane of the lens and the image plane of the television camera is incorrect, the object goes out of focus when the lens is zoomed. Follow the procedure below to adjust the back focus of the lens.



- 1** Select an object at an appropriate distance (CJ15ex/CJ14ex : approx. 1 to 3m, CJ20ex5B/CJ20ex7.8B/CJ25ex/CJ17ex/ CJ18ex7.6B/CJ24ex/KJ10ex/KJ17ex II/KJ22ex II : approx. 2 to 5m, CJ18ex28B : approx. 5 to 7m recommended). Use any object with sharp contrast to facilitate the adjustment work.
- 2** Set the extender lever to 1x. (Excluding KASE S type lens)
- 3** Set the iris fully open.
- 4** Set the lens to the telephoto angle by turning the zoom ring.
- 5** Bring the object into focus by turning the focus ring.
- 6** Set the lens to the widest angle by turning the zoom ring.
- 7** Loosen the flange back lock screw, and turn the flange back adjusting ring to bring the object into focus.
- 8** Repeat steps 4 to 7 a few times until the object is brought into focus both at the widest end and the telephoto end.
- 9** Tighten the flange back lock screw.

3-2. IRIS GAIN ADJUSTMENT

An iris gain adjusting trimmer is located on the front of the lens drive unit. The iris gain is set at middle of range at the factory. However, if you wish to change the iris gain, adjust the trimmer using a small screwdriver.



- 1** Set the iris operation mode change-over switch to the "A" (Auto) position.
- 2** Pull up the rubber cap on the iris gain adjusting trimmer.
- 3** Turn the iris gain adjusting trimmer, using a small screwdriver. As you look at the lens iris ring, set it to the position of maximum gain at which no iris hunting occurs.
- 4** Close the rubber cap after adjustment completes.

The adjustment and the setting can also be made on the information display. Refer to Operation Manual "Information display".

4 MODE SETTING

4-1. OPERATION MODES

There are three operation modes below. One of the operation modes can be selected on the display screen of the information display of this lens according to usage and preference.

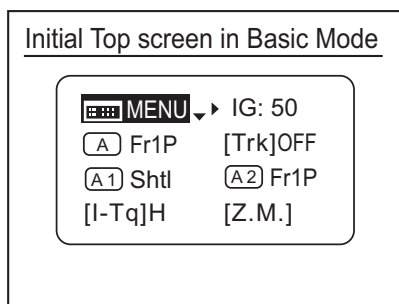
1. Basic mode : Items that can be set and viewed are limited in this mode, and are recommended to users who do not require sophisticated settings. This product is factory-set to basic mode.
2. Full mode : All items can be set and viewed in this mode.
3. Analog mode : This mode is selected when the digital functions are not used at all.
 - Switches labeled VTR, RET, IRIS A/M, and IRIS INST control the respective functions. The rocker switch serves as a regular zoom switch.
 - AUX and MEMO switches are disabled.
 - To set auto iris gain adjustment, use either display or trimmer operations.
 - Shuttle shot, framing preset, speed preset, and zoom tracking are not available.

This manual describes only the items that can be set on the Top screen in each mode.

For details on how to set them, refer to Operation Manual "Information display".

4-2. SETTING ITEMS IN BASIC MODE

The following eight items can be set on the top screen in Basic Mode.

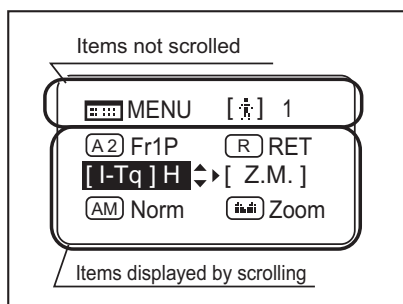
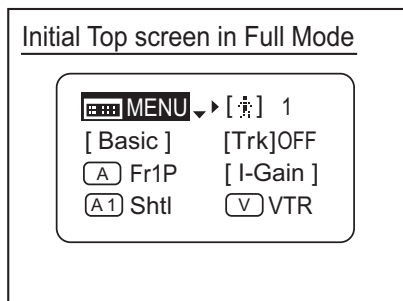


1. Go to MENU screen
2. Auto iris gain settings
3. AUX switch assignment
4. Zoom tracking ON/OFF
5. AUX1 switch assignment
6. AUX2 switch assignment
7. Iris torque settings
8. Zoom curve mode settings

For details on how to set them, refer to Operation Manual "Information display".

4-3. SETTING ITEMS IN FULL MODE

The following 14 items can be set on the top screen in Full Mode.

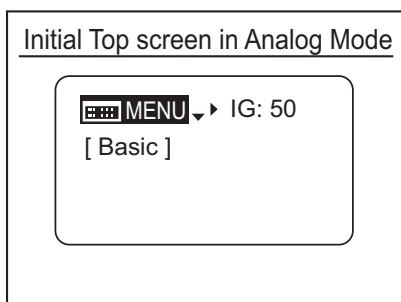


1. Go to MENU screen
2. Switch users
3. Switch to Basic Mode
4. Zoom tracking ON/OFF
5. AUX switch assignment
6. Iris gain settings
7. AUX1 switch assignment
8. VTR switch assignment
9. AUX2 switch assignment
10. RET switch assignment
11. Iris torque settings
12. Zoom curve mode settings
13. Iris A/M switch setting
14. Seasaw switch assignment

For details on how to set each setting item, refer to Operation Manual "Information display".

4-4. SETTING ITEMS IN ANALOG MODE

The following three items can be set on the top screen in Analog Mode.



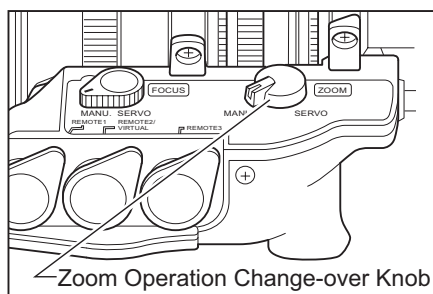
1. Go to MENU screen
2. Auto iris gain settings
3. Switch to Basic Mode

For details on how to set each setting item, refer to Operation Manual "Information display".

5 OPERATION

5-1. ZOOM OPERATION

5-1-1. Manual Zoom Operation

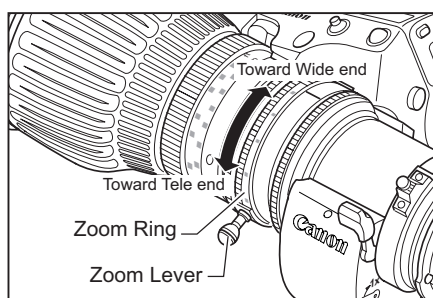


- 1 Set the zoom operation change-over knob at the bottom of the lens drive unit to MANU. position.
- 2 Turn the zoom ring (or zoom lever) to perform zoom operation.

NOTE

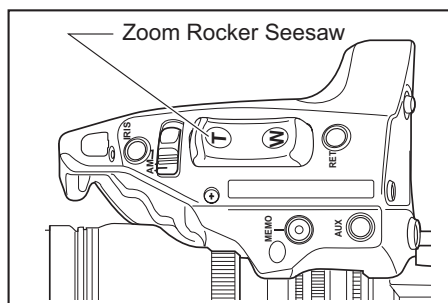
The zoom operation change-over knob must be set to the MANU. position before performing manual zoom operations.

The lens may be damaged if manual zoom operations are forcibly performed with the knob at the SERVO position.



5-1-2. Servo Zoom Operation

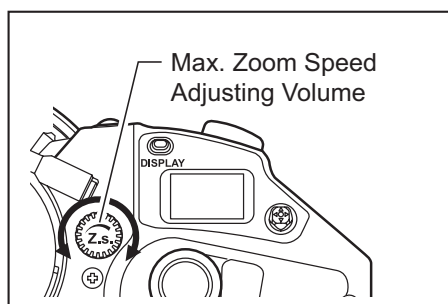
Zoom operation can be performed by driving the built-in motor in the lens.



- 1 Set the zoom operation change-over knob to SERVO position.
- 2 Press the zoom rocker seesaw to perform zoom operation. Zoom speed changes by the depth of the switch being pressed. The deeper the switch is pressed the faster the zoom speed.

5-1-3. Maximum Zoom Speed Adjustment

The maximum speed of zoom when the zoom rocker seesaw is pressed can be adjusted with the max. zoom speed adjusting volume.

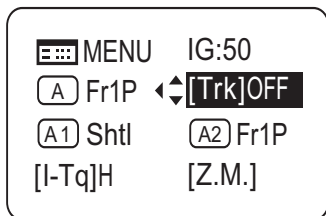


The adjustment and the setting can also be made on the information display. Refer to Operation Manual "Information display".

5-1-4. Zoom Track Function (only for servo zoom)

The zoom control range (zoom track) position can be set as desired to set the virtual zoom limit in the telephoto end and the widest angle end. To use the zoom track function, the function should be enabled in advance.

A : Setting ON or OFF on the information display (In case of basic mode)



- 1** Press the DISPLAY switch to turn on the display.
- 2** Select [Trk] using the control key, and then press the Set key. [Trk] and the previous setting now blink on the display.
- 3** Press the left or right key to select ON or OFF.
- 4** Press the Set key. This completes the setting.

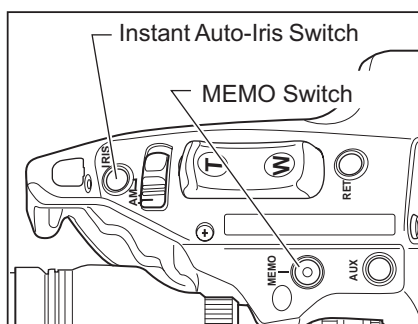
For details on how to set each setting item, refer to Operation Manual "Information display".

B: Setting ON or OFF by operating the switches

| | Selection method | Operation | How to ascertain the selection |
|------------------------------|---|---|--|
| To set the function to "ON" | Hold down MEMO switch and Instant auto-iris switch simultaneously for at least 3 seconds. | The zoom control range is fixed to the zoom range set last. (If there is no previous setting, it is set to the mechanical end.) | Automatic zooming from current zoom position to the closer of the two set positions. |
| To set the function to "OFF" | | The zoom range is set to the mechanical end. | Automatic zooming from current zoom position to the closer of the two mechanical ends. |

Setting the Zoom Track Positions

Set the zoom track function to ON before setting the zoom track position.



- 1** Zoom to the zoom track position to be set.
- 2** Keeping this zoom position, press the Instant Auto-Iris switch while holding down the MEMO switch. If the zoom position is at the telephoto end, the position is stored as the zoom track position for the telephoto limit. If position is at the widest angle end, it is stored as the widest end.
- 3** Repeat step 1 and 2 to set both the telephoto end and the widest end. It is possible to set only one end. To change the setting, perform step 1 to 3. (The position set last overwrites the setting in the memory.)

1. If the zoom track position is to be set again, the zoom position cannot move beyond the end point setting toward the mechanical end by performing servo zoom operations. To move the zoom, set the zoom track function to OFF, then take one of the steps below.
 - Proceed with the zooming operation at the setting established by operating the zoom rocker seesaw.
 - Perform the zooming operation manually.
2. Although up to two zoom track positions (the telephoto end and the widest angle end) can be set, two positions cannot be set that are on the same side of the center position of the zoom range of this lens. (In this case, the latest setting is stored as the zoom track position of this side.)

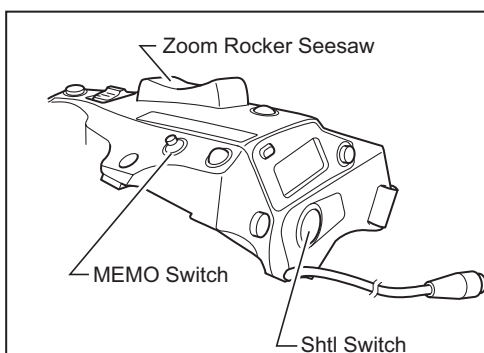
5-1-5. Shuttle-Shot Function

This function allows you to switch between the current zoom position and the preset zoom position at the maximum speed.



Before using shuttle-shot function, the shuttle function must be assigned to the VTR, RET, or AUX switch of the drive unit, or the AUX1 or AUX2 switch on the zoom demand. This manual describes the Shtl function assigned to the VTR switch. For details, refer to "5-6 SWITCH OPERATIONS".

Setting the shuttle memory position



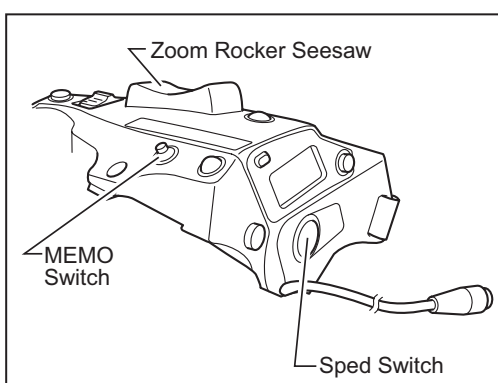
Zoom to the position to be set. Keeping this position, press the Shtl switch while holding down the MEMO switch.

1. The position you stored here is different from the one you set in "Framing Preset" mentioned later. The stored position set here is retained even after the power is turned off.
2. The operation with the Shtl switch is given the priority over that with the zoom rocker seesaw. The operation with the zoom rocker seesaw is disabled while the Shtl switch is pressed.

5-1-6. Speed Preset

This function allows you to call the preset zoom speed any time you zoom. Assign the Sped function to the VTR, RET, or AUX switch of the drive unit, or AUX1 or AUX2 switch on the zoom demand. This manual describes the Sped function assigned to the VTR switch.

1. Storing the zoom speed and direction



Operate the zoom rocker seesaw to determine the zoom speed and direction (toward the telephoto angle or the widest angle) which you want to store, and press the MEMO switch while holding this position.

The stored zoom speed is applied to the Framing Pre-set.

5 OPERATION

2. How to operate the speed preset function

When the "Sped" switch is pressed, the zoom starts to move at the preset speed and to the determined direction (toward the telephoto angle or the widest angle) stored in section 1 and stops at the zoom end.

3. How to cancel movement in Speed Preset

Movement in Speed Preset can be canceled by any of the following operations.

- 1) Press the Sped switch again. → Zooming stops.
- 2) Performing zoom operation with the zoom rocker seasaw / Shtl switch / Fr1P switch / Fr2P switch / Fr1F switch / Fr2F switch.

5-1-7. Framing Preset

There are three framing preset types based on how the settings are combined.

[Zoom]

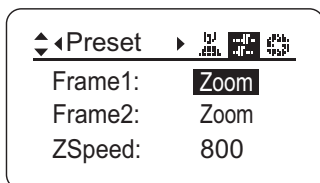
This enables a predetermined picture angle and movement speed (zoom speed) to be reproduced easily.

[Focus] IASE S, IASE-C S and KASE S type lenses only

This enables a predetermined focus to be reproduced easily.

[Z+F] IASE S, IASE-C S and KASE S type lenses only

This enables the movement speed (focus speed, zoom speed) to a predetermined focus and picture angle to be reproduced easily.



The framing preset setting is changed on the Preset screen on the information display. The Frame1 setting is changed to Zoom, Focus, or Z+F.

Up to two framing presets, Frame1 and Frame2, can be stored in the memory. Only Frame1 is described in the description given on the following pages. Frame1 is indicated as Fr1P.

How to set the zoom speed to the framing memory position

Movement speed to the framing position is selected by assigning the Fr1P or Fr1F switch.

Fr1P-----For the preset speed setting (preset speed) (Assigned to the AUX switch at the factory.)

Fr1F-----For the maximum speed setting (fast speed)

For details on how to assign the functions to the switches, refer to "5-6. SWITCH OPERATIONS".

Setting combinations

| Frame preset control | Control content | Movement speed setting | |
|----------------------|--------------------------------|---|---|
| | | Fr1P, Fr2P (speed settable) | Fr1F, Fr2F (maximum speed) |
| Zoom | Zoom operation control | The zoom moves at the preset speed. | The zoom moves at the maximum speed. |
| Focus | Focus operation control | The focus moves at maximum speed. ^{*1} | The focus moves at maximum speed. |
| Z+F | Zoom + focus operation control | The zoom and focus move at the preset speeds. ^{*2} | The zoom and focus move at the maximum speed. |

*1 : Focus speed is fixed at maximum speed.

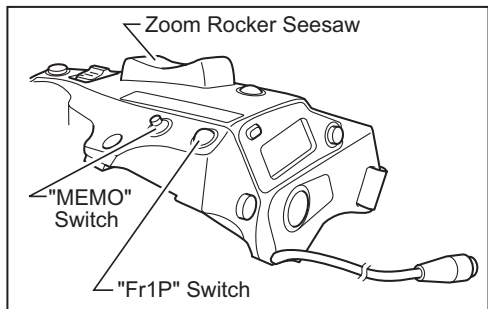
*2 : The zoom and focus are controlled in such a way that they start and stop simultaneously.

Framing Preset [Zoom] / [Focus] / [Z+F] Setting

The following figure below is shown as an example. Actual state of the switch may look different if the function is allocated to the different switch.

- Fr1P function-----Assigned to the AUX switch by factory default.

1. Setting the framing memory position



Zoom (and focus) to the position that you want to store, while holding this zoom (and zoom focus) position, press the Fr1P switch while holding down the MEMO switch.

This framing memory position is different from the shuttle memory position (Refer to “5-1-5. Shuttle-Shot Function”). The stored zoom position remains in the memory, even after the power is turned off.

2. Moving to the framing memory position

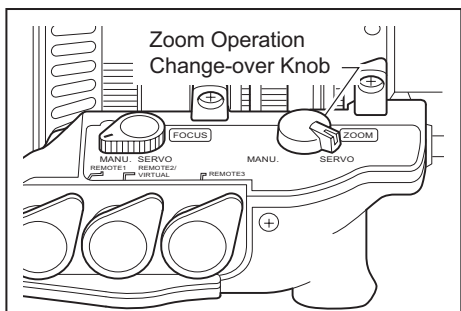
Once the Fr1P switch is pressed, the zoom starts to move toward the framing memory position at the preset speed and stops at the framing memory position. When the zoom reaches the framing memory position, it stops and stays there.

3. Canceling the movement to the framing memory position or switching to other zoom operation

During movement to the framing memory position, the movement can be canceled and/or switched to other zoom operation by any of the following operations.

| | |
|--|--|
| <p>[Zoom Framing Preset]</p> <ul style="list-style-type: none"> • Press the Fr1P switch again. • Perform zoom operation with the zoom rocker seesaw. • Perform zoom operation with the ShtI switch. | <p>[Focus Framing Preset]</p> <p>[Zoom, Focus Framing Preset]</p> <ul style="list-style-type: none"> • Operate a connected focus demand. Movement to the memory position stops, and movement to the operating position of the focus demand takes place. |
|--|--|

5-1-8 Clutchless Zoom (Only models with clutchless zoom mechanism)



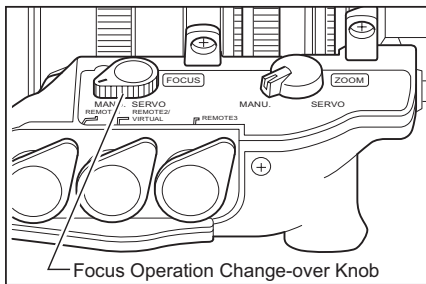
Set the zoom operation change-over knob to the SERVO position to activate the clutchless zoom mechanism.

NOTE
The lens may be damaged if manual zoom operation is performed during the servo zoom operation.

| Zoom operation change-over knob | Clutchless zoom mechanism | Operation |
|---------------------------------|---------------------------|---|
| SERVO | ON | Setting used when both servo and manual operations are needed Without operating a clutch, you can switch between the servo zoom and manual zoom. |
| MANU. | OFF | Set to MANU. when using only the manual zoom. |

5-2. FOCUS OPERATION

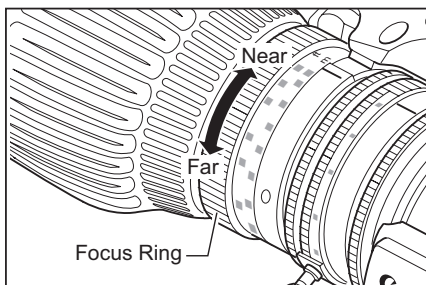
5-2-1. Manual Focus Operation



- 1 When IASE S, IASE-C S or KASE S type lens is used, set the focus operation change-over knob to MANU. position.

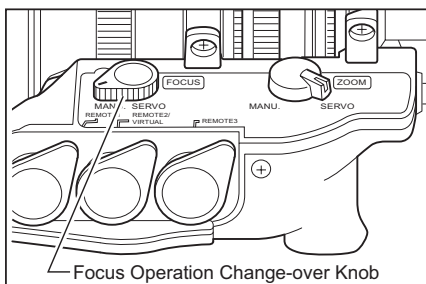
NOTE

When using IASE S, IASE-C S or KASE S type lens, the camera may be damaged if excessive force is applied to turn the focus ring with the knob is at the SERVO position.



- 2 Turn the focus ring to bring the near or far object into focus.

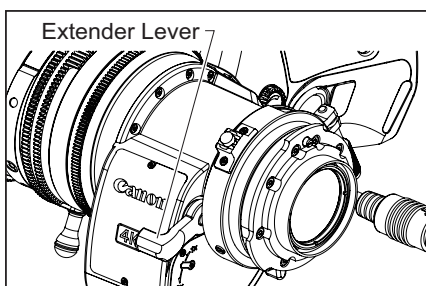
5-2-2. Servo Focus Operation



- 1 When IASE S, IASE-C S or KASE S type lens is used, set the focus operation change-over knob to SERVO position.

- 2 Mount the accessory such as focus demand. For the details, refer to the operation manual of accessories.

5-3. EXTENDER OPERATION (Excluding KASE S type lens)



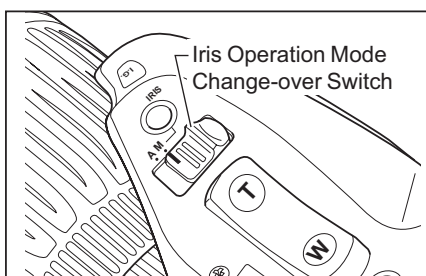
The lens with built-in extender has the built-in 2x extender. Use the extender lever to switch between 1x and 2x.

When the extender is used, note that the light quantity may decrease by the zoom ratio depending on the iris correction setting.

5-4. IRIS OPERATION

The iris operation mode can be switched between auto and manual with the iris operation mode change-over switch.

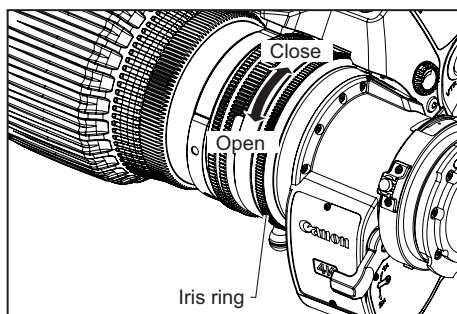
5-4-1. Automatic Iris Operation



Slide the iris operation mode change-over switch to the "A" position.

The iris operation is performed automatically by the instruction from the camera, to keep the video signal level constant.

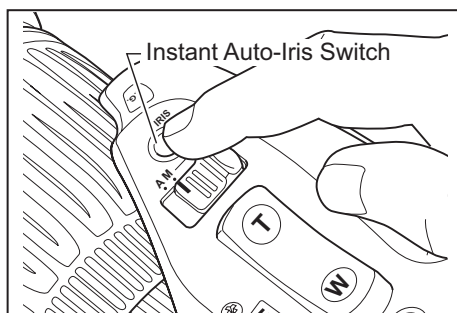
5-4-2. Manual Iris Operation



Slide the iris operation mode change-over switch to the "M" position. The iris operation is performed by turning the iris ring on the lens body.

NOTE

The iris operation mode change-over switch must be set to the M position before performing manual iris operations. The lens may be damaged if manual iris operations are forcibly performed with the knob at the A position.

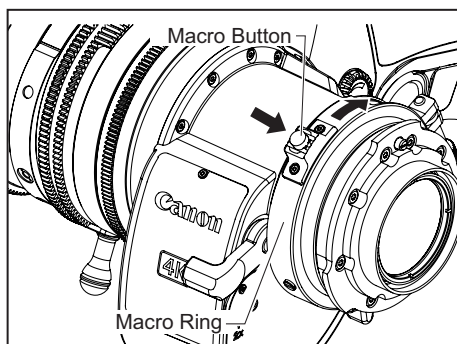


When the instant auto-iris switch is pressed during manual iris operation mode, the iris changes to automatic operation mode while the switch is held down.

The adjustment and the setting can also be made on the information display. Refer to Operation Manual "Information display".

5-5. MACRO OPERATION

In macro shooting, the object distance becomes shorter than the normal minimum object distance (M.O.D.). The minimum object distance by macro operation for this lens is 10mm at the widest angle.



To operate the macro, press the macro button to unlock the macro ring. While holding it down, turn the macro ring at the rear of the lens clockwise as viewed from the camera side to allow macro shooting.

- 1 Set the lens to the widest angle by manual or servo zoom operation.
- 2 Bring the object into focus by turning the macro ring.

Macro operation is also possible at any zoom position other than the widest angle, but the object distance increases.

Multi-point Focus Shooting

In macro shooting, when zooming to change the focal length, the focal point varies.

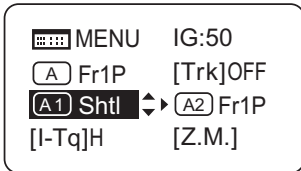
The multi-point focus shooting technique uses this characteristic. The focal point is shifted by the zoom operation. Follow the steps below :

- 1 Zoom in to a far object, and bring it into focus by normal focus operation.
- 2 Zoom out to a near object and bring into focus by macro operation.
- 3 Zoom in to the far object again while not touching the macro button set by above step 2, and bring into focus again by normal focus operation.

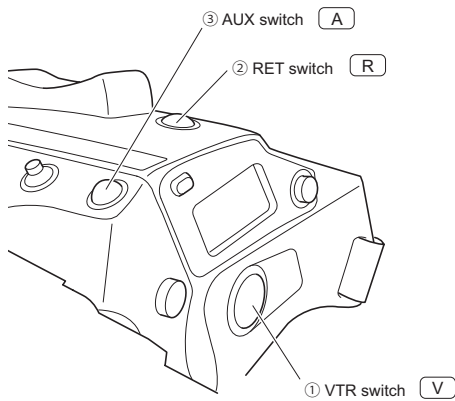
5-6. SWITCH OPERATIONS

Functions can be assigned to the five switches: the VTR, RET, AUX switches, or AUX1 and AUX2 switches on the information display. VTR, RET, Shtl, and Fr1P functions are assigned respectively by default. The following steps explain how to assign the functions to the switches in basic mode.

For details, refer to Operation Manual "Information display".



- 1** Press the DISPLAY switch to turn on the display.
- 2** After using the control key to select the name of the switch key to which the function is to be allocated, press the Set key. The name of the switch and the default or the previous setting now blink on the display.
- 3** Press the left or right key until the function to be changed to appears on the display.
- 4** Press the Set key. This completes the setting.



| Switch | Default value | Functions | | | | | | | | | |
|--------|---------------|-----------|------|------|------|------|------|-----|-----|-----|--|
| | | Fr1P | Fr1F | Fr2P | Fr2F | Sped | Shtl | NON | VTR | RET | |
| ① V | VTR | ● | ● | ● | ● | ● | ● | | ● | ● | |
| ② R | RET | ● | ● | ● | ● | ● | ● | | ● | ● | |
| ③ A | Fr1P | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ④ A1 | Shtl | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ⑤ A2 | Fr1P | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

"●" indicates a combination of an assignable function and a switch. (4) and (5) are AUX1 and AUX2 switches on the zoom demand.

| Switch name | Description |
|-------------|---|
| VTR | Start/stop VTR operation. |
| RET | Hold down to view the main-line video on the view finder. |
| Fr1P, Fr2P | Press to move to the stored zoom/focus position. One position can be stored/called for Fr1P and Fr1F, and another for Fr2P and Fr2F. |
| Fr1F, Fr2F | |
| Sped | Press to move in the stored zoom direction (toward the telephoto end or the widest angle end) at the stored zoom speed. |
| Shtl | Press to move to the stored zoom position at the maximum speed. Release to return to the previous zoom position at the maximum speed. |
| NON | No function |

6 PRODUCT SPECIFICATIONS

UHDxs LENSES

| Model Name | | | CJ15ex4.3B | CJ20ex5B |
|---|--------|----|---|---|
| Focal Length | 1× | | 4.3-65mm | 5-100mm |
| | 2× | | 8.6-130mm | 10-200mm |
| Zoom Ratio | | | 15 × | 20 × |
| Maximum Relative Aperture | 1× | | 1:1.8 (at 4.3-40mm) 1:2.9 (at 65mm) | 1:1.8 (at 5-61mm) 1:2.95 (at 100mm) |
| | 2× | | 1:3.6 (at 8.6-80mm) 1:5.8 (at 130mm) | 1:3.6 (at 10-122mm) 1:5.9 (at 200mm) |
| Image Format | | | Dia. 11mm (9.6 × 5.4 mm) | |
| Angular Field of View | Wide | 1× | 96.3°×64.2° | 87.7° × 56.7° |
| | | 2× | 58.3°×34.9° | 51.3° × 30.2° |
| | Tele | 1× | 8.4°×4.8° | 5.5° × 3.1° |
| | | 2× | 4.2° ×2.4° | 2.7° × 1.5° |
| Minimum Object Distance (M.O.D) (Macro: 10mm from the lens vertex) | | | 0.3m | 0.4m |
| Object Dimensions at M.O.D | Wide | 1× | 76.1 × 42.8cm | 87.1 × 49.0cm |
| | | 2× | 38.1 × 21.4cm | 43.6 × 24.5cm |
| | Tele | 1× | 4.9 × 2.8cm | 4.2 × 2.4cm |
| | | 2× | 2.5 × 1.4cm | 2.1 × 1.2cm |
| Flange Back | | | 48mm (in air) | |
| Thread for Filters | | | 127mm P0.75 (Hood Unit Thread Size) | |
| Zoom Speed for Full Range | | | Max. 0.5s ± 0.2s | |
| Focus Speed for Full Range | | | 1.3s ± 0.3s | |
| Iris | | | Control from camera | |
| Mount | | | B4 | |
| Power Source | | | DC12V (DC10 ~ 17V) | |
| Current Consumption | R type | | Max 300mA | |
| | A type | | Max 500mA | |
| Operating Temperature | | | Temperature : - 20°C ~ + 45°C Humidity : 5% to 95%RH (no condensation) | |
| Mass without Hood | IRSE S | | Approx. 2.11kg | Approx. 2.16kg |
| | IASE S | | Approx. 2.19kg | Approx. 2.24kg |

6 PRODUCT SPECIFICATIONS

| Model Name | | | CJ20ex7.8B | CJ25ex7.6B |
|---|--------|----|--|---|
| Focal Length | 1× | | 7.8-156mm | 7.6-190mm |
| | 2× | | 15.6-312mm | 15.2-380mm |
| Zoom Ratio | | | 20 × | 25 × |
| Maximum Relative Aperture | 1× | | 1:1.8 (at 7.8-108mm) 1:2.6 (at 156mm) | 1:1.8 (at 7.6-118mm) 1:2.9 (at 190mm) |
| | 2× | | 1:3.6 (at 15.6-216mm) 1:5.2 (at 312mm) | 1:3.6 (at 15.2-236mm) 1:5.8 (at 380mm) |
| Image Format | | | Dia. 11mm (9.6 × 5.4 mm) | |
| Angular Field of View | Wide | 1× | 63.2°×38.2° | 64.6°×39.1° |
| | | 2× | 34.2°×19.6° | 35.1°×20.1° |
| | Tele | 1× | 3.5°×2.0° | 2.89°×1.63° |
| | | 2× | 1.8° ×1.0° | 1.45° ×0.81° |
| Minimum Object Distance (M.O.D) (Macro: 10mm from the lens vertex) | | | 0.8m | |
| Object Dimensions at M.O.D | Wide | 1× | 91.7 × 51.6cm | 93.9 × 52.8cm |
| | | 2× | 45.9 × 25.8cm | 48.1 × 27.1cm |
| | Tele | 1× | 4.8 × 2.7cm | 3.9 × 2.2cm |
| | | 2× | 2.4 × 1.4cm | 2.0 × 1.1cm |
| Flange Back | | | 48mm (in air) | |
| Thread for Filters | | | 94mm P1.0 (Lens Barrel Thread Size) or 105mm P1.0 (Hood Unit Thread Size) | |
| Zoom Speed for Full Range | | | Max. 0.5s ± 0.2s | |
| Focus Speed for Full Range | | | 1.5s ± 0.3s | |
| Iris | | | Control from camera | |
| Mount | | | B4 | |
| Power Source | | | DC12V (DC10 ~ 17V) | |
| Current Consumption | R type | | - | Max 300mA |
| | A type | | Max. 500mA | |
| Operating Temperature | | | Temperature : - 20°C to + 45°C Humidity : 5% to 95%RH (no condensation) | |
| Mass without Hood | IRSE S | | - | Approx.1.91kg |
| | IASE S | | Approx. 2.18kg | Approx.1.99kg |

UHDgc LENSES

| Model Name | | CJ14ex4.3B | CJ17ex6.2B | |
|---|--------|--|---|--------------|
| Focal Length | 1× | 4.3-60mm | 6.2-106mm | |
| | 2× | 8.6-120mm | 12.4-212mm | |
| Zoom Ratio | | 14 × | 17× | |
| Maximum Relative Aperture | 1× | 1:1.8 (at 4.3-40mm) 1:2.7 (at 60mm) | 1:1.8 (at 6.2-65.8mm) 1:2.9 (at 106mm) | |
| | 2× | 1:3.6 (at 8.6-80mm) 1:5.4 (at 120mm) | 1:3.6 (at 12.4-131.6mm) 1:5.8 (at 212mm) | |
| Image Format | | Dia. 11mm (9.6 × 5.4 mm) | | |
| Angular Field of View | Wide | 1× | 96.3°×64.2° | 75.5°×47.1° |
| | | 2× | 58.3°×34.9° | 42.3°×24.6° |
| | Tele | 1× | 9.1°×5.2° | 5.2°×2.9° |
| | | 2× | 4.6° ×2.6° | 2.6° ×1.5° |
| Minimum Object Distance (M.O.D) (Macro: 10mm from the lens vertex) | | 0.3m | 0.4m | |
| Object Dimensions at M.O.D | Wide | 1× | 76.4 ×43.0cm | 73.3 ×41.2cm |
| | | 2× | 38.2 ×21.5cm | 36.7 ×20.6cm |
| | Tele | 1× | 5.2 ×2.9cm | 4.1 ×2.3cm |
| | | 2× | 2.6 ×1.5cm | 2.1 ×1.2cm |
| Flange Back | | 48mm (in air) | | |
| Thread for Filters | | 127mm P0.75 (Hood Unit Thread Size) | 105mm P1.0 (Hood Unit Thread Size) | |
| Zoom Speed for Full Range | | Max. 0.5s ± 0.2s | | |
| Focus Speed for Full Range | | 1.3s ± 0.3s | 1.5s ± 0.3s | |
| Iris | | Control from camera | | |
| Mount | | B4 | | |
| Power Source | | DC12V (DC10 ~ 17V) | | |
| Current Consumption | R type | Max. 300mA | | |
| | A type | Max. 500mA | | |
| Operating Temperature | | Temperature : - 20°C to + 45°C Humidity : 5% to 95%RH (no condensation) | | |
| Mass without Hood | IRSE S | Approx. 2.11kg | Approx. 2.07kg | |
| | IASE S | Approx. 2.19kg | Approx. 2.15kg | |

6 PRODUCT SPECIFICATIONS

| Model Name | | CJ18ex7.6B* | CJ18ex28B | CJ24ex7.5B | |
|---|--------|--|--|--|--------------|
| Focal Length | 1× | 7.6-137mm | 28-500mm | 7.5-180mm | |
| | 2× | 15.2-274mm | 56-1000mm | 15-360mm | |
| Zoom Ratio | | 18× | 18× | 24× | |
| Maximum Relative Aperture | 1× | 1:1.8 (at 7.6-103mm) 1:2.4 (at 137mm) | 1:2.8 (at 28-286mm) 1:4.9 (at 500mm) | 1:1.8 (at 7.5-120mm) 1:2.7 (at 180mm) | |
| | 2× | 1:3.6 (at 15.2-206mm) 1:4.8 (at 274mm) | 1:5.6 (at 56-572mm) 1:9.8 (at 1000mm) | 1:3.6 (at 15-240mm) 1:5.4 (at 360mm) | |
| Image Format | | Dia. 11mm (9.6 × 5.4 mm) | | | |
| Angular Field of View | Wide | 1× | 64.6°×39.1° | 19.5°×11.0° | 65.2°×39.6° |
| | | 2× | 35.1°×20.1° | 9.8°×5.5° | 35.5°×20.4° |
| | Tele | 1× | 4.0°×2.3° | 1.10°×0.62° | 3.1°×1.7° |
| | | 2× | 2.0° ×1.1° | 0.55° ×0.31° | 1.5°×0.9° |
| Minimum Object Distance (M.O.D) (Macro: 10mm from the lens vertex) | | 0.56m | 2.2m | 0.8m | |
| Object Dimensions at M.O.D | Wide | 1× | 65.5 ×36.8cm | 71.0×39.9cm | 96.0 ×54.0cm |
| | | 2× | 32.8 ×18.4cm | 35.5×20.0cm | 48.0 ×27.0cm |
| | Tele | 1× | 3.8 ×2.1cm | 4.1×2.3cm | 4.1 ×2.3cm |
| | | 2× | 1.9 ×1.1cm | 2.1×1.2cm | 2.1 ×1.2cm |
| Flange Back | | 48mm (in air) | | | |
| Thread for Filters | | 82mm P0.75 (Lens Barrel Thread Size) | 127mm P0.75 (Hood Unit Thread Size) | 94mm P1.0 (Lens Barrel Thread Size) or 105mm P1.0 (Hood Unit Thread Size) | |
| Zoom Speed for Full Range | | Max. 0.5s ± 0.2s | | | |
| Focus Speed for Full Range | | 1.3s ± 0.3s | 1.5s ± 0.3s | | |
| Iris | | Control from camera | | | |
| Mount | | B4 | | | |
| Power Source | | DC12V (DC10 ~ 17V) | | | |
| Current Consumption | R type | Max. 300mA | - | Max. 300mA | |
| | A type | Max. 500mA | | | |
| Operating Temperature | | Temperature : - 20°C to + 45°C Humidity : 5% to 95%RH (no condensation) | | | |
| Mass without Hood | IRSE S | Approx. 1.65kg | - | Approx. 1.82kg | |
| | IASE S | Approx. 1.73kg | Approx. 2.76kg | Approx. 1.90kg | |
| | KASE S | Approx. 1.68kg | - | - | |

*CJ18ex7.6B KASE S : No built-in extender

HDGC LENSES

| Model Name | | KJ10ex4.5B | KJ17ex7.7B II |
|---|--------|--|---|
| Focal Length | 1× | 4.5-45mm | 7.7-131mm |
| | 2× | 9-90mm | 15.4-262mm |
| Zoom Ratio | | 10× | 17× |
| Maximum Relative Aperture | 1× | 1:1.8 (at 4.5-34.5mm) 1:2.35 (at 45mm) | 1:1.8 (at 7.7-103mm) 1:2.3 (at 131mm) |
| | 2× | 1:3.6 (at 9-68.9mm) 1:4.7 (at 90mm) | 1:3.6 (at 15.4-206mm) 1:4.6 (at 262mm) |
| Image Format | | Dia. 11mm (9.6 × 5.4 mm) | |
| Angular Field of View | Wide | 1× | 93.7°×61.9° |
| | | 2× | 56.1°×33.4° |
| | Tele | 1× | 12.2°×6.9° |
| | | 2× | 6.1°×3.4° |
| Minimum Object Distance (M.O.D) (Macro: 10mm from the lens vertex) | | 0.3m | 0.6m |
| Object Dimensions at M.O.D | Wide | 1× | 74.1 ×41.7cm |
| | | 2× | 37.0 ×20.8cm |
| | Tele | 1× | 6.4 ×3.6cm |
| | | 2× | 3.2 ×1.8cm |
| Flange Back | | 48mm (in air) | |
| Thread for Filters | | 127mm P0.75 (Hood Unit Thread Size) | 82mm P0.75 (Lens Barrel Thread Size) |
| Zoom Speed for Full Range | | Max. 0.5s ± 0.2s | |
| Focus Speed For Full Range | | 1.3s ± 0.3s | |
| Iris | | Control from camera | |
| Mount | | B4 | |
| Power Source | | DC12V (DC10 ~ 17V) | |
| Current Consumption | R type | Max. 300mA | |
| | A type | Max. 500mA | |
| Operating Temperature | | Temperature : - 20°C to + 45°C Humidity : 5% to 95%RH (no condensation) | |
| Mass without Hood | IRSE S | Approx. 1.83kg | Approx. 1.65kg |
| | IASE S | Approx. 1.91kg | Approx. 1.73kg |

6 PRODUCT SPECIFICATIONS

| | | | |
|---|--------|--|-------------|
| Model Name | | KJ22ex7.6B II | |
| Focal Length | 1× | 7.6-168mm | |
| | 2× | 15.2- 336mm | |
| Zoom Ratio | | 22× | |
| Maximum Relative Aperture | 1× | 1:1.8 (at 7.6-120mm) 1:2.6 (at 168mm) | |
| | 2× | 1:3.6 (at 15.2-240mm) 1:5.2 (at 336mm) | |
| Image Format | | Dia. 11mm (9.6 × 5.4 mm) | |
| Angular Field of View | Wide | 1× | 64.6°×39.1° |
| | | 2× | 35.1°×20.1° |
| | Tele | 1× | 3.27°×1.84° |
| | | 2× | 1.64°×0.92° |
| Minimum Object Distance (M.O.D) (Macro: 10mm from the lens vertex) | | 0.8m | |
| Object Dimensions at M.O.D | Wide | 1× | 94.7×53.3cm |
| | | 2× | 47.4×26.7cm |
| | Tele | 1× | 4.4×2.5cm |
| | | 2× | 2.2×1.3cm |
| Flange Back | | 48mm (in air) | |
| Thread for Filters | | 94mm P1.0 (Lens Barrel Thread Size) or 105mm P1.0 (Hood Unit Thread Size) | |
| Zoom Speed for Full Range | | Max. 0.5s ± 0.2s | |
| Focus Speed For Full Range | | 1.5s ± 0.3s | |
| Iris | | Control from camera | |
| Mount | | B4 | |
| Power Source | | DC12V (DC10 ~ 17V) | |
| Current Consumption | R type | Max. 300mA | |
| | A type | Max. 500mA | |
| Operating Temperature | | Temperature : - 20°C to + 45°C Humidity : 5% to 95%RH (no condensation) | |
| Mass without Hood | IRSE S | Approx. 1.82kg | |
| | IASE S | Approx. 1.90kg | |

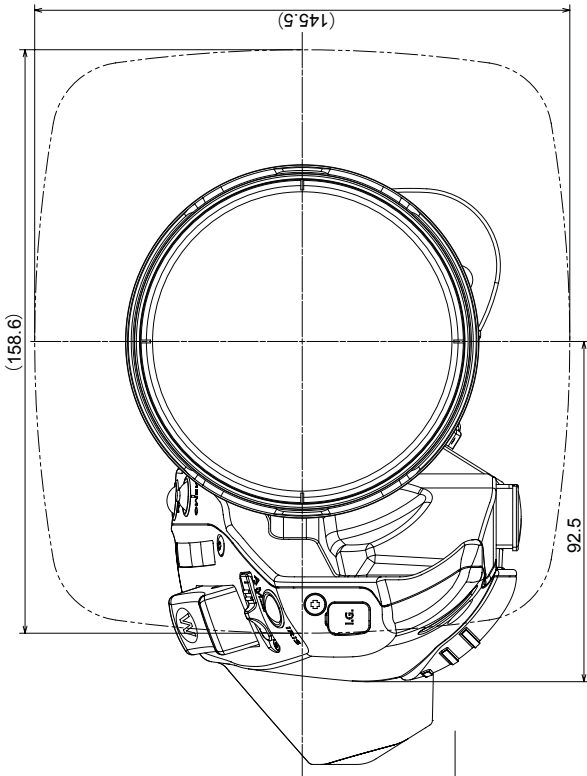
TECHNICAL INFORMATION

EXTERNAL VIEW

1. CJ15ex4.3B IASE S
2. CJ20ex5B IASE S
3. CJ20ex7.8B IASE S
4. CJ25ex7.6B IASE S
5. CJ14ex4.3B IASE S
6. CJ17ex6.2B IASE S
7. CJ18ex7.6B IASE S
8. CJ18ex28B IASE S
9. CJ24ex7.5B IASE S
10. KJ10ex4.5B IASE S
11. KJ17ex7.7B IASE II S
12. KJ22ex7.6B IASE II S

There are some differences in the external appearance of the IRSE S, KASE S type and clutchless type.

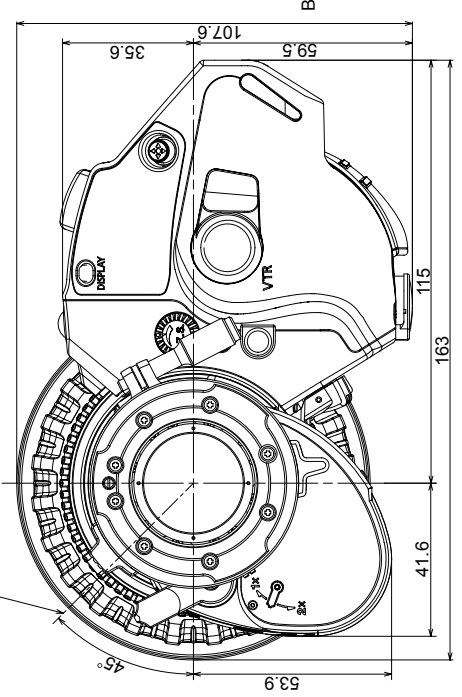
1. CJ15ex4.3B IASE S



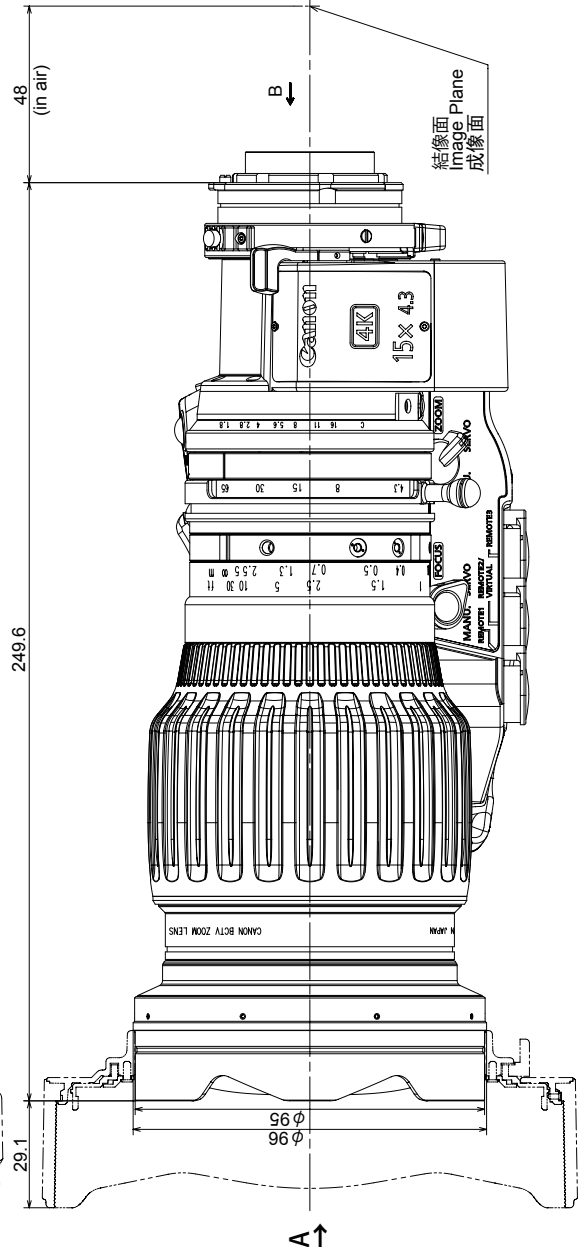
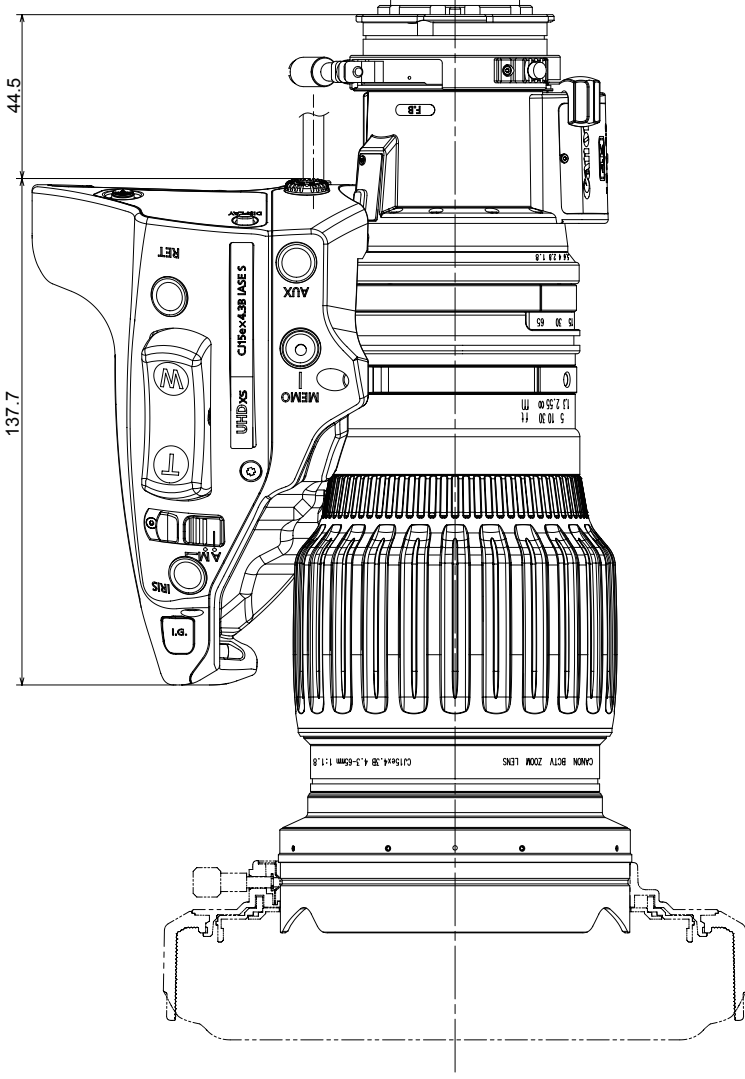
View A

(Unit : mm)

指標線位置
Index Mark
指标线位置



View B



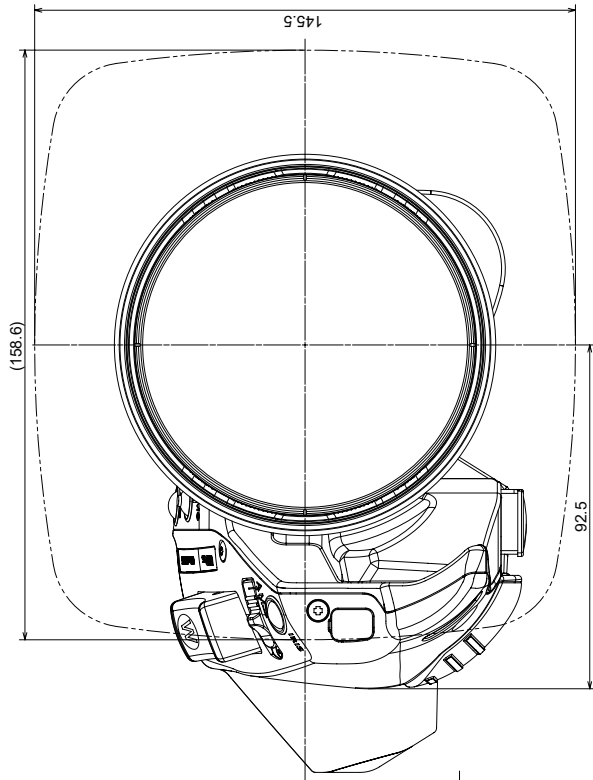
A ↑

結像面
Image Plane
成像面

φ 96

φ 96

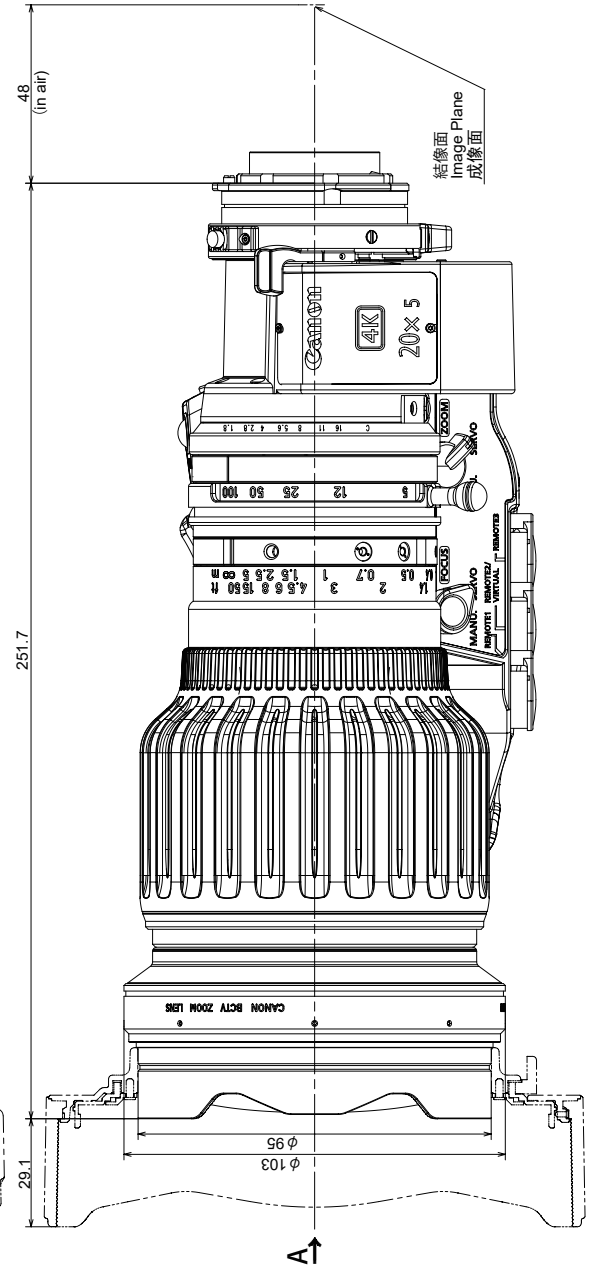
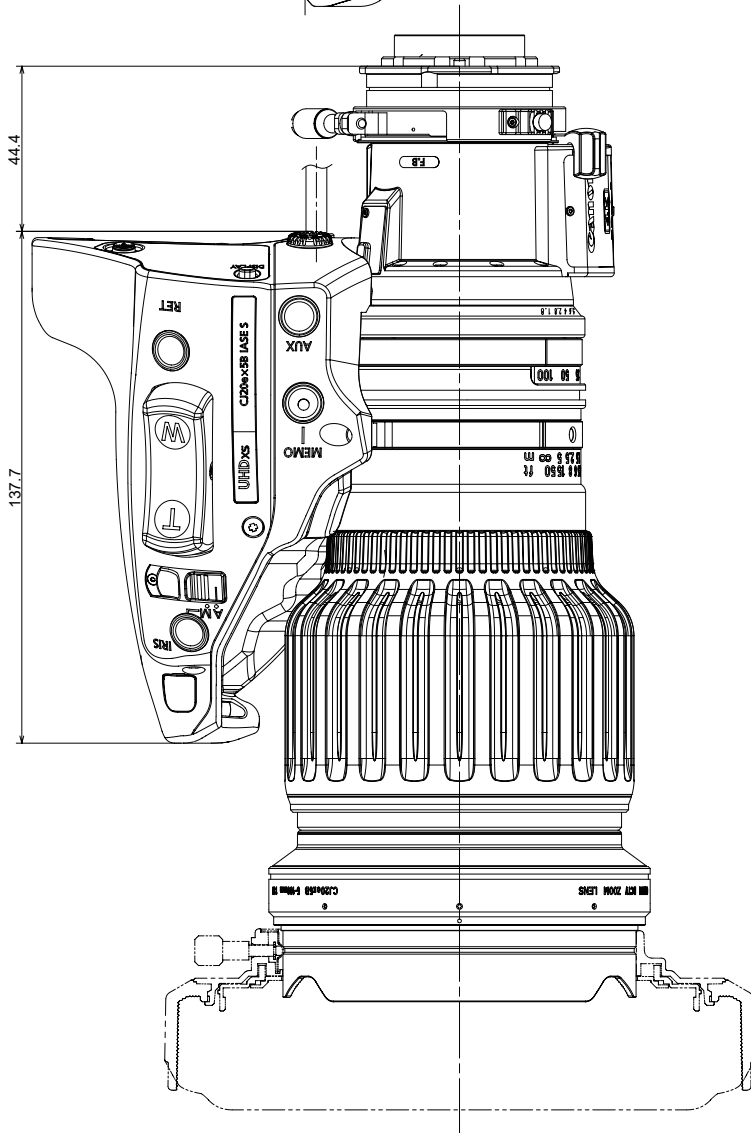
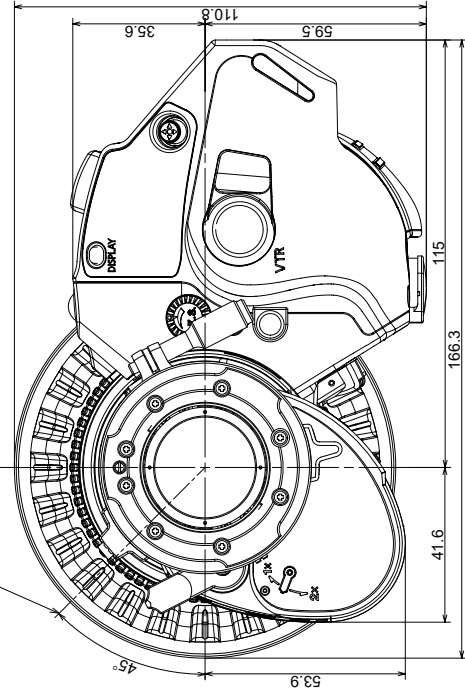
2. CJ20ex5B IASE S



View A

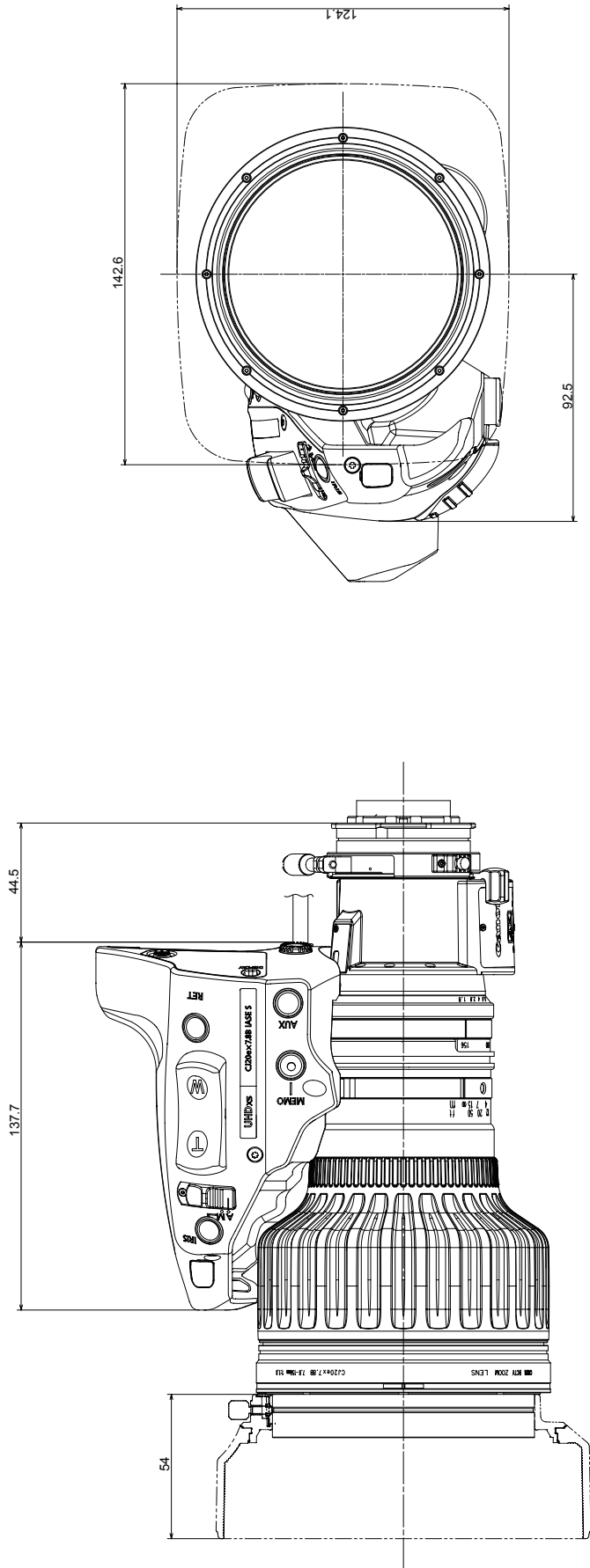
(Unit : mm)

指標線位置
Index Mark
指標線位置



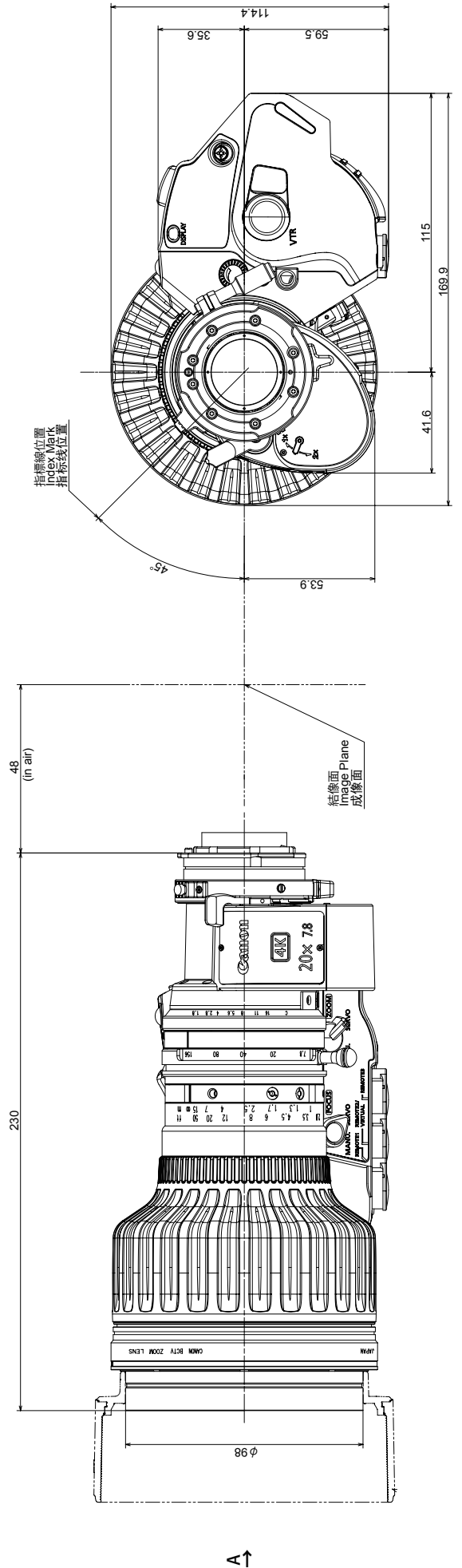
A

3. CJ20ex7.8B IASE S



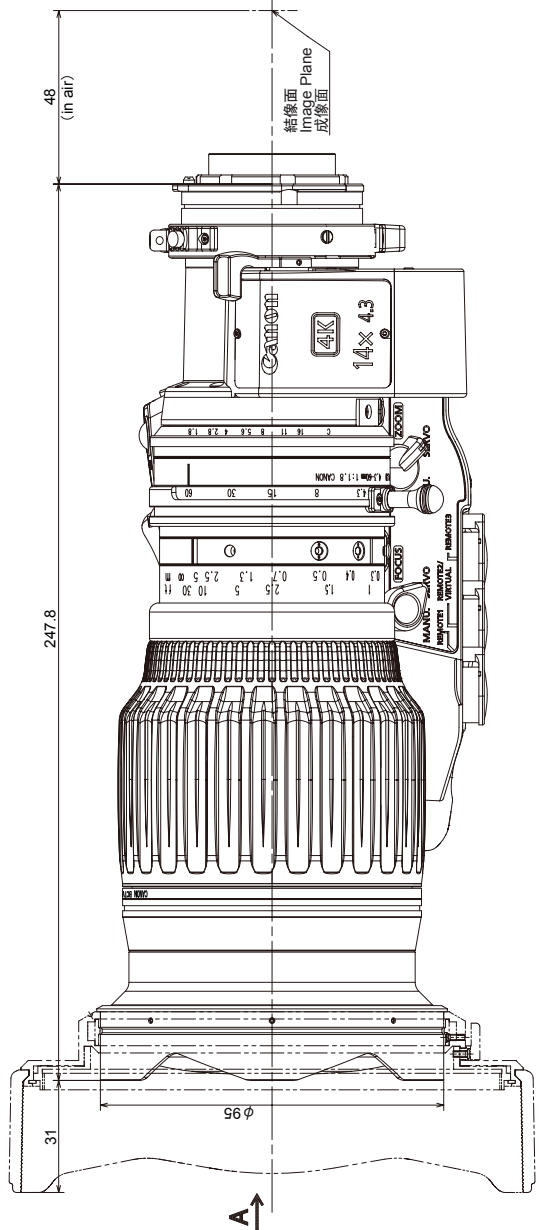
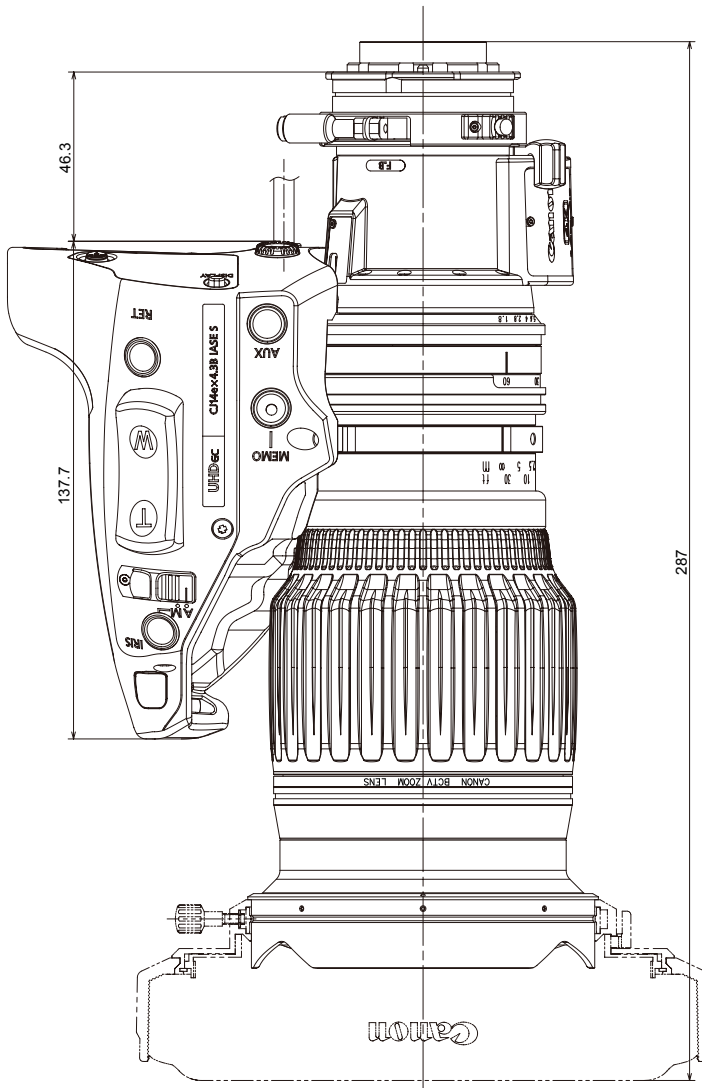
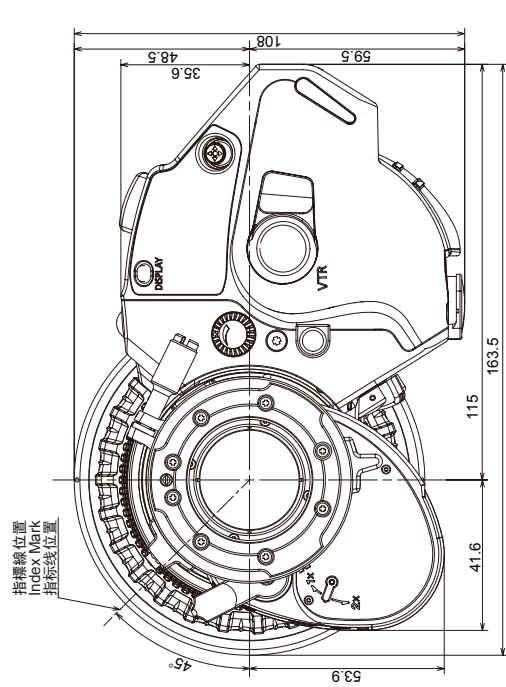
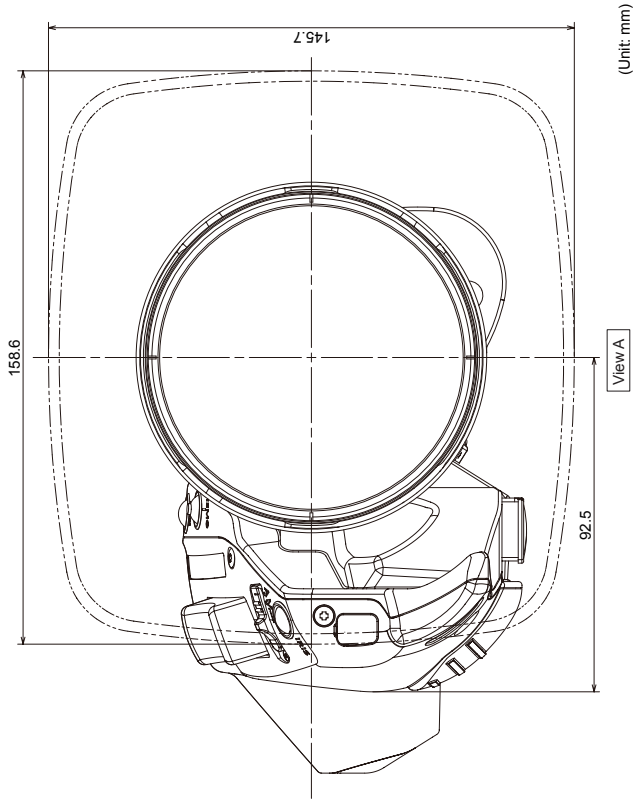
View A

(Unit : mm)

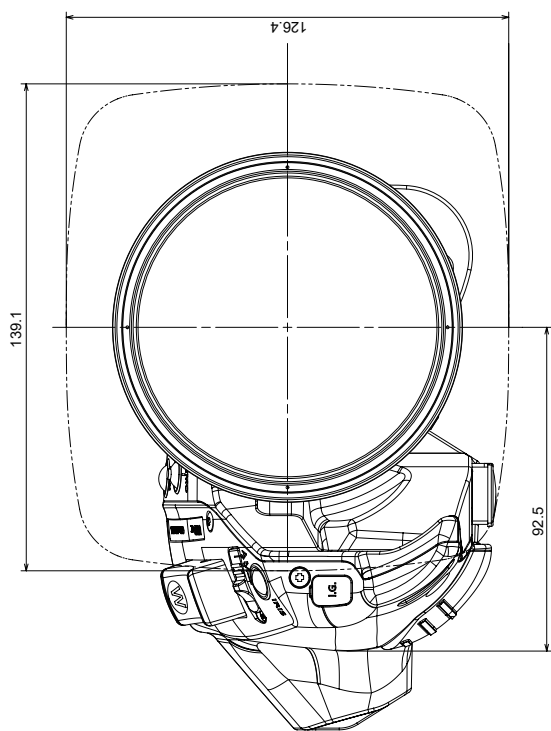


↑ A

5. CJ14ex4.3B IASE S



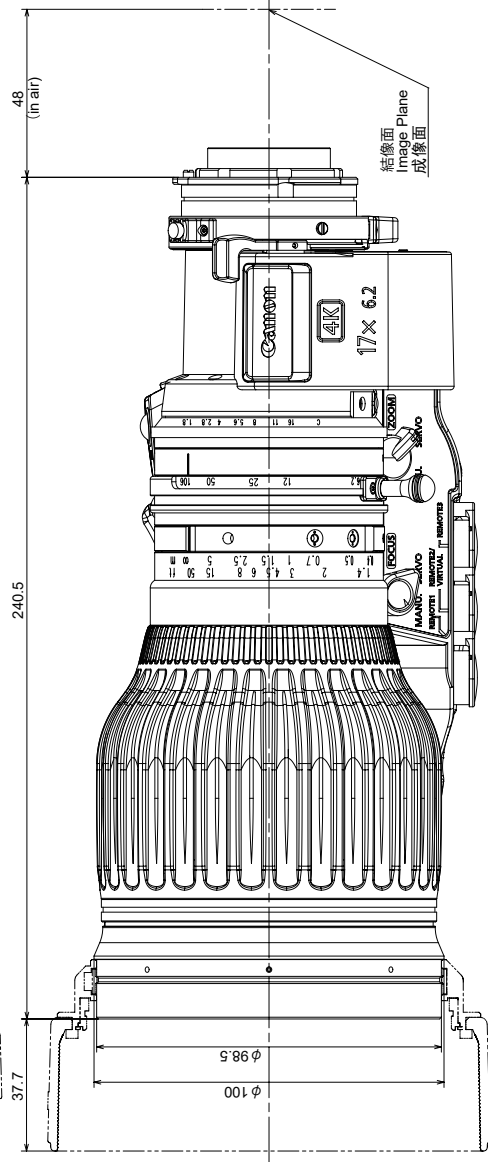
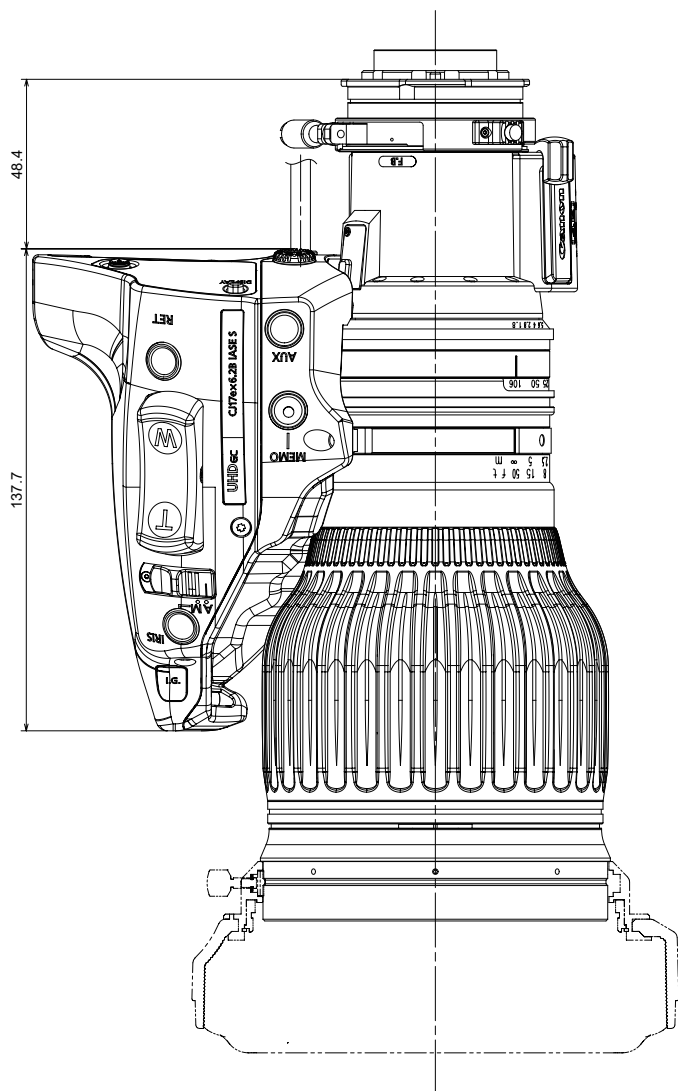
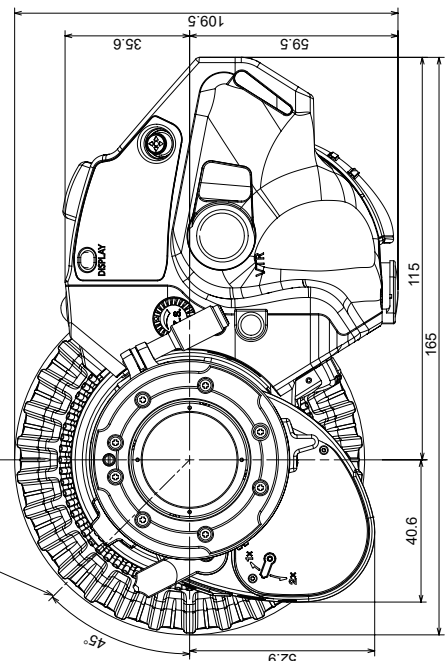
6. CJ17ex6.2B IASE S



View A

(Unit: mm)

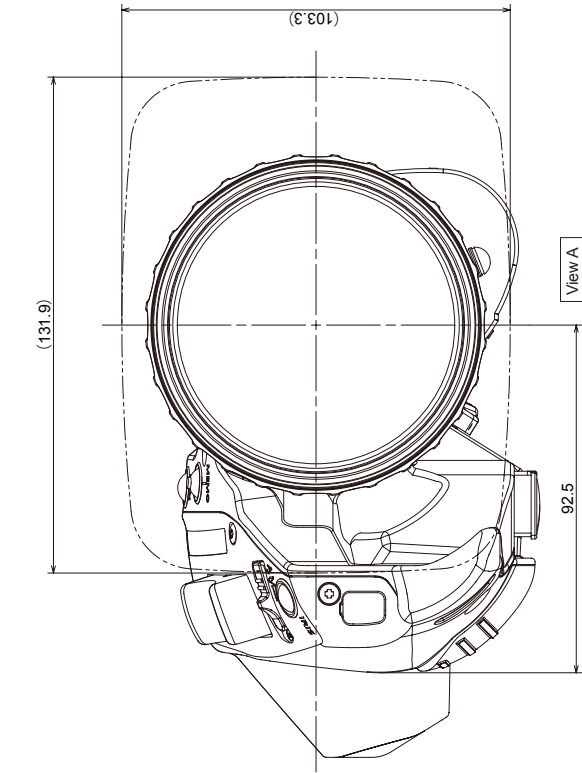
指標線位置
Index Mark
指標線位置



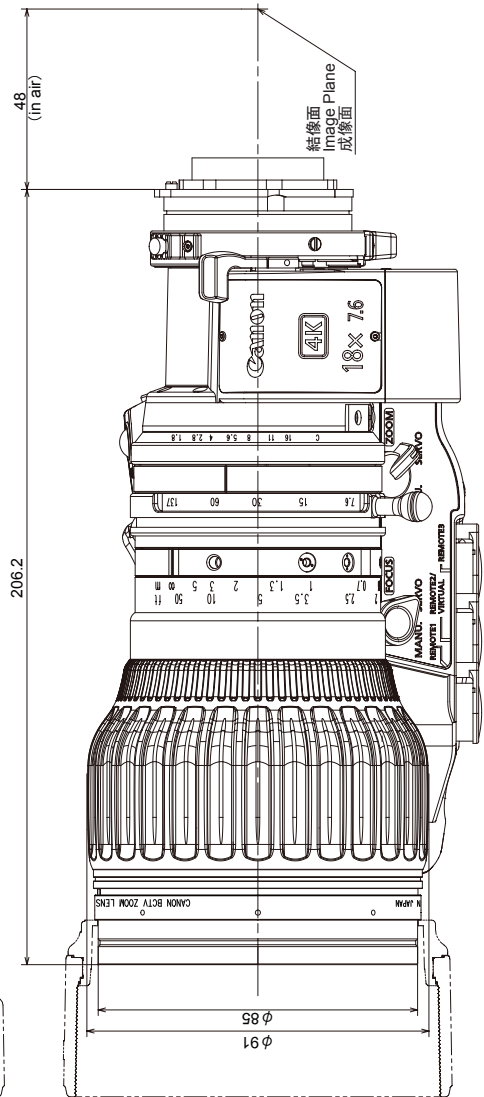
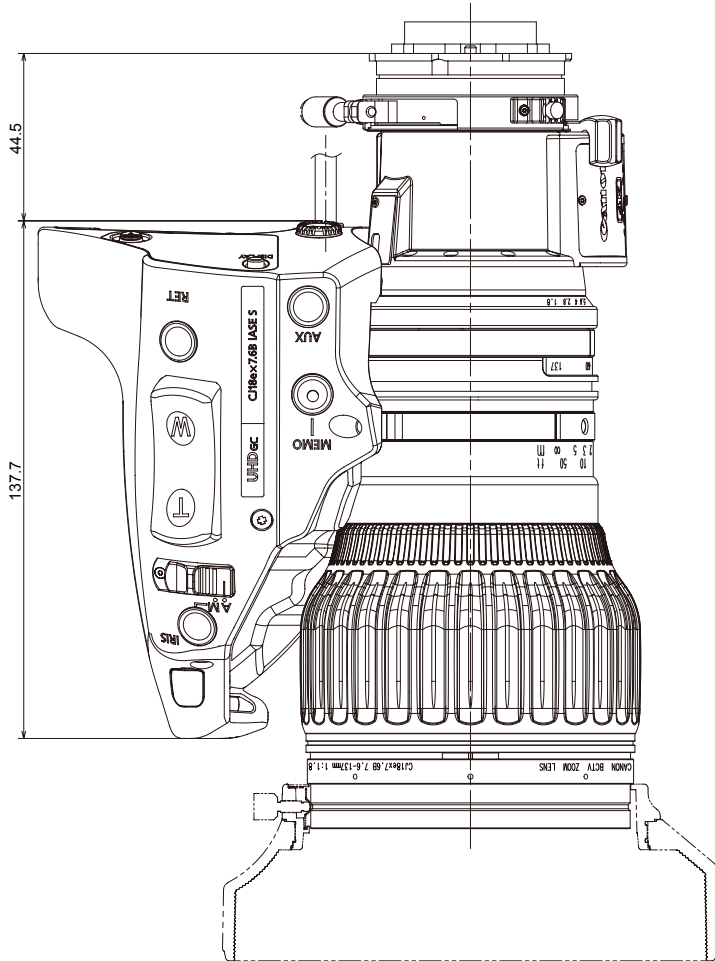
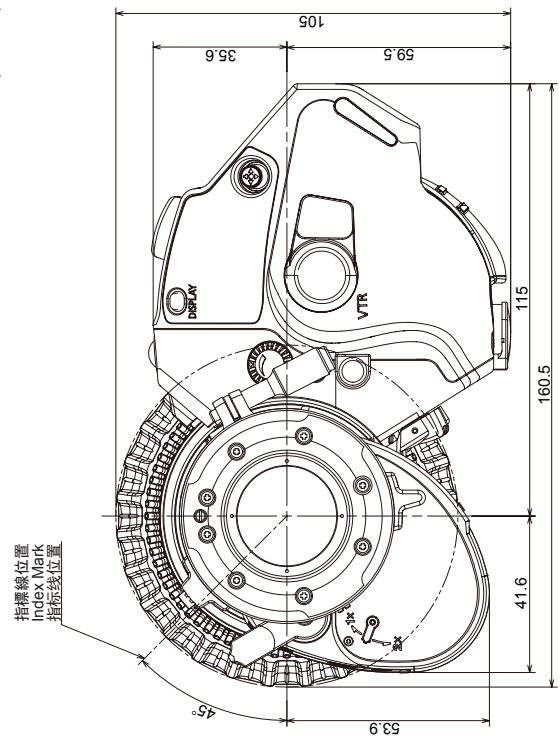
結像面
Image Plane
成像面

A ↑

7. CJ18ex7.6B IASE S

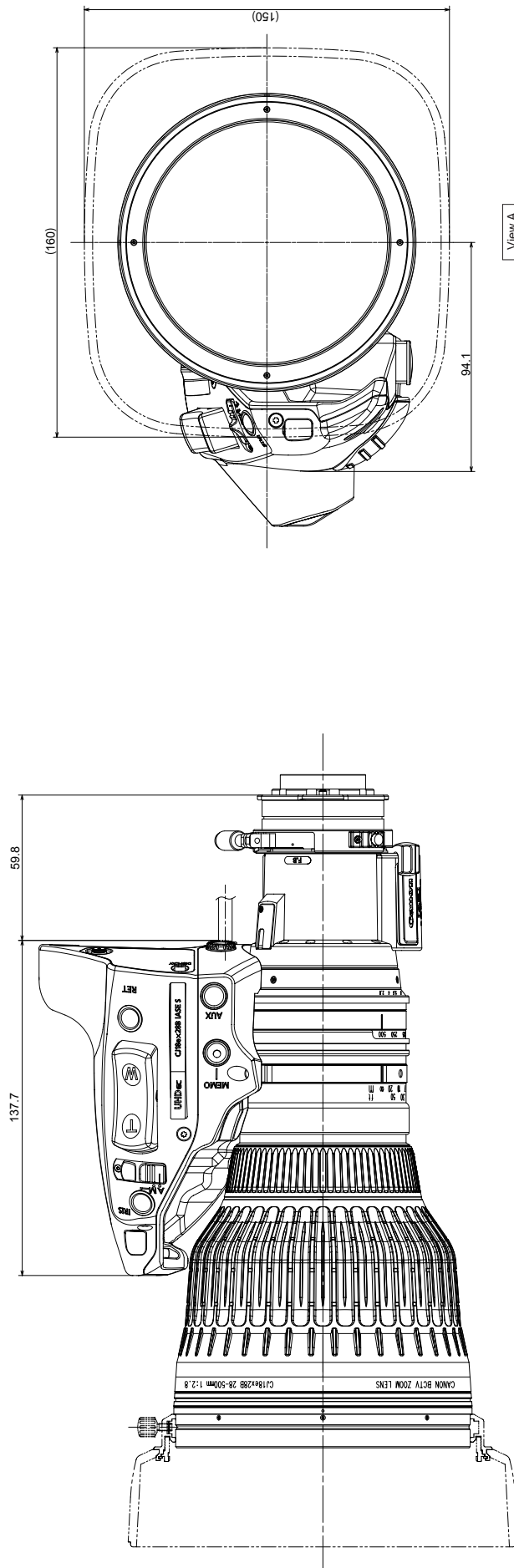


(Unit: mm)

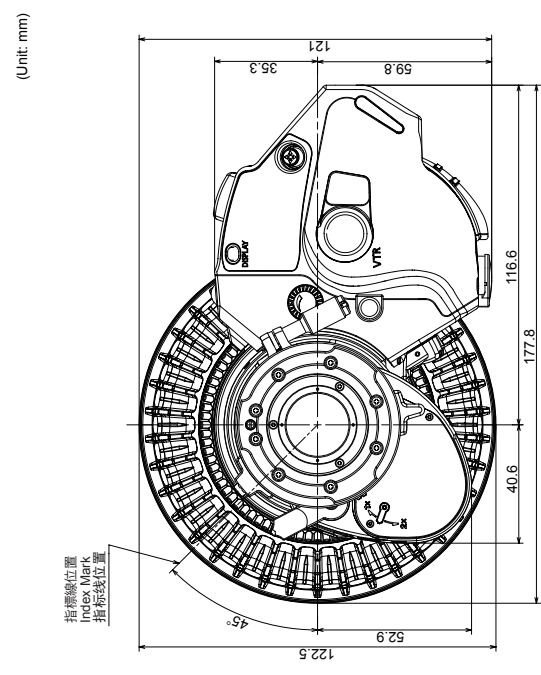


A↑

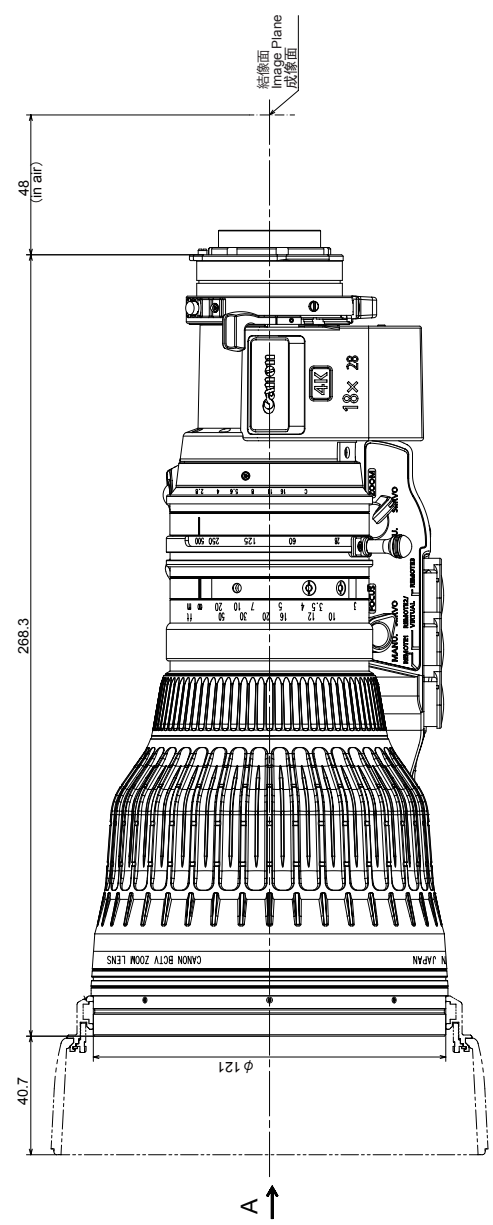
8. CJ18ex28B IASE S



View A

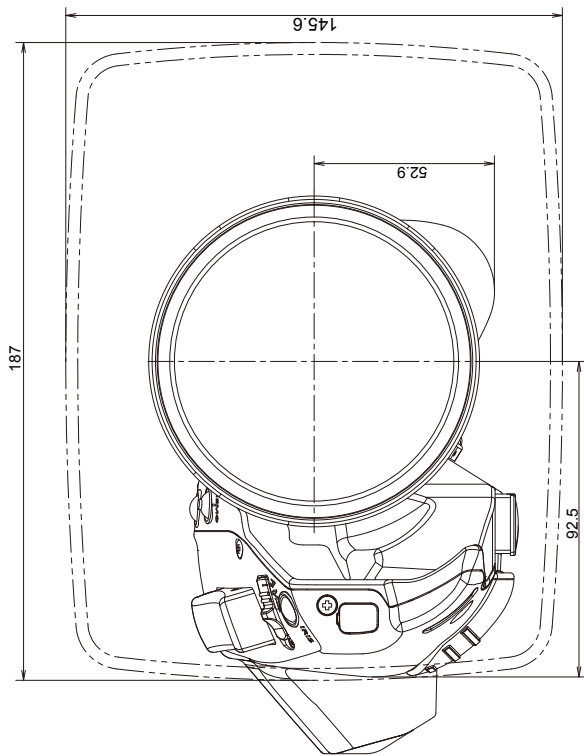


(Unit: mm)



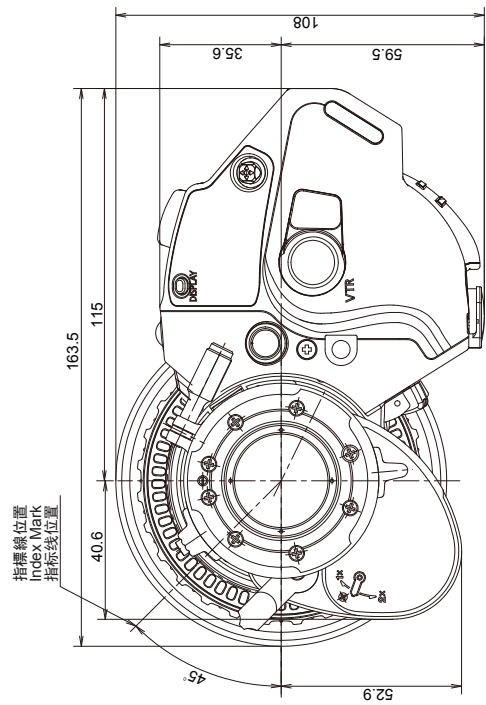
A ↑

10. KJ10ex4.5B IASE S

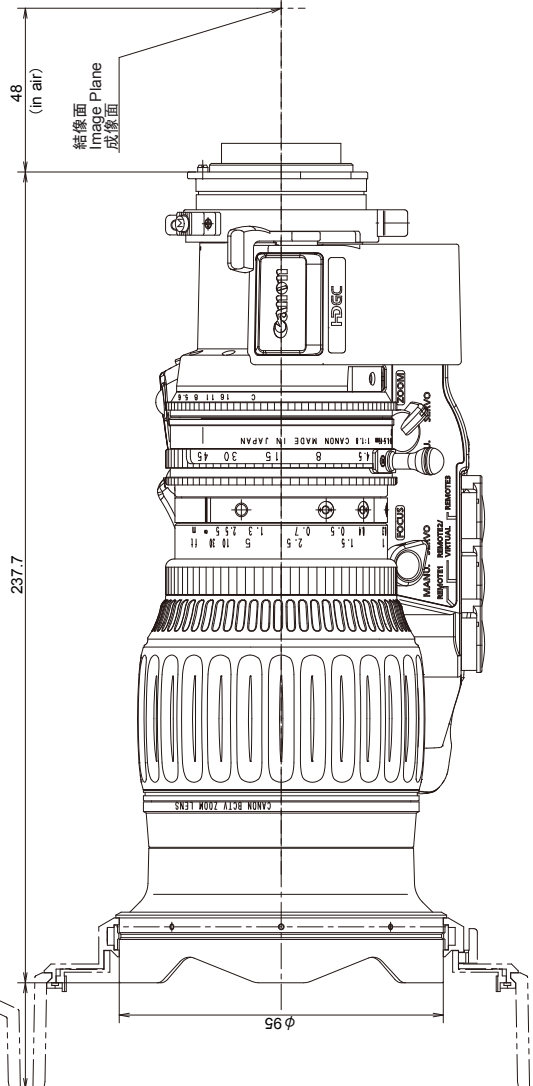
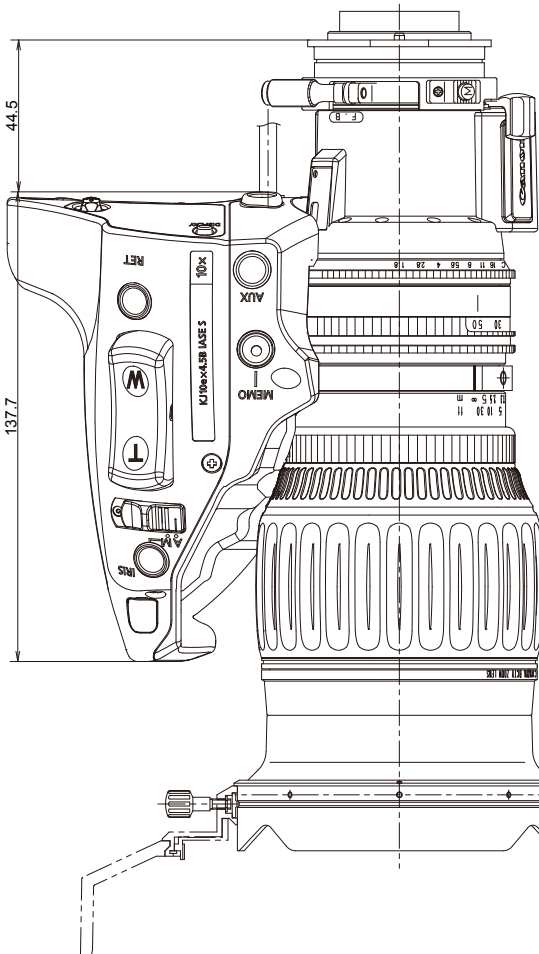


VIEW A

(Unit: mm)



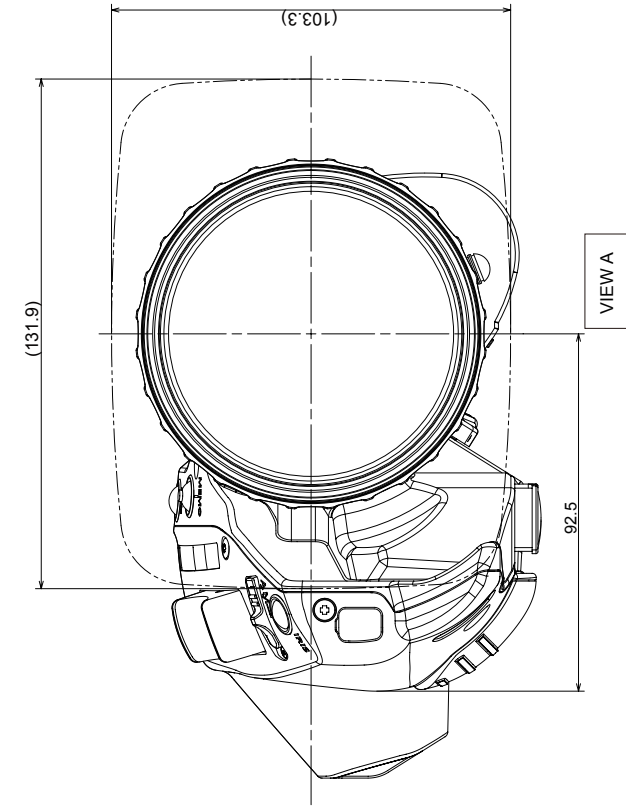
指標線位置
Index Mark
指標線位置



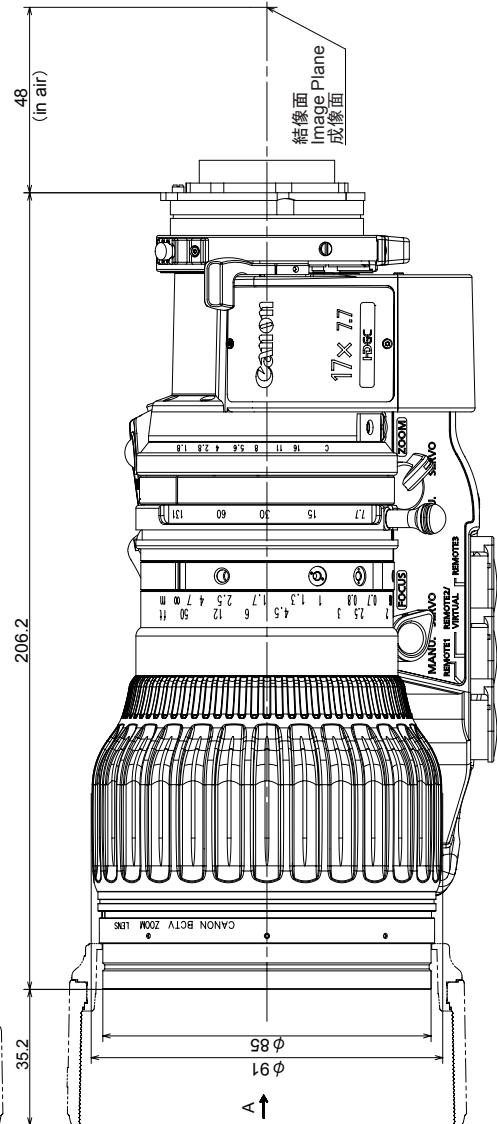
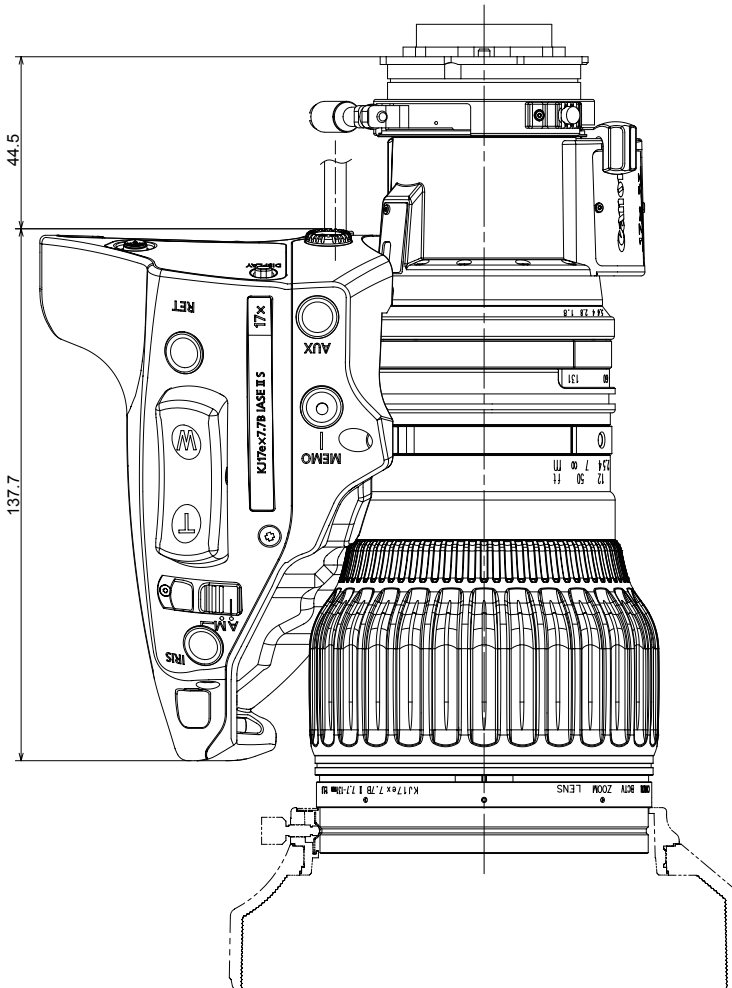
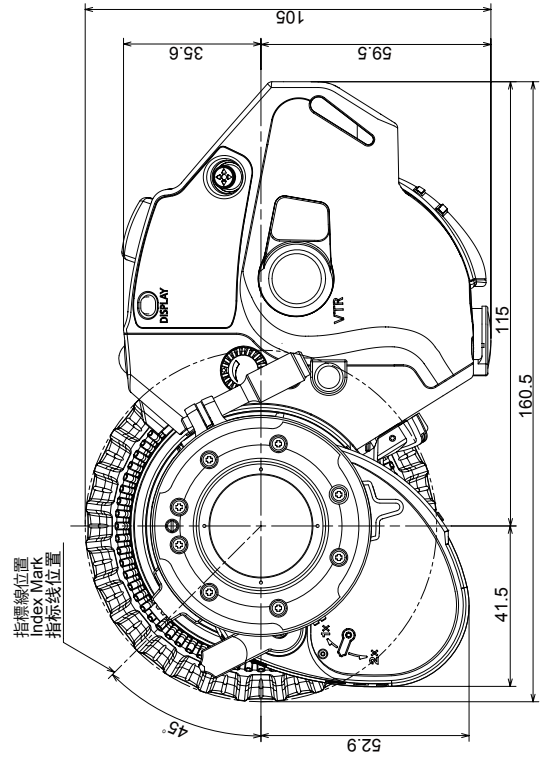
結像面
Image Plane
成像面



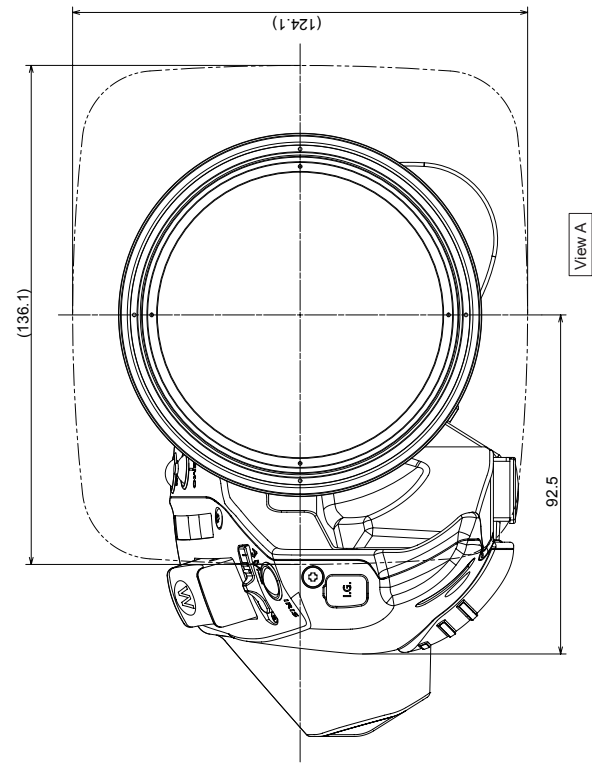
11. KJ17ex7.7B IASE II S



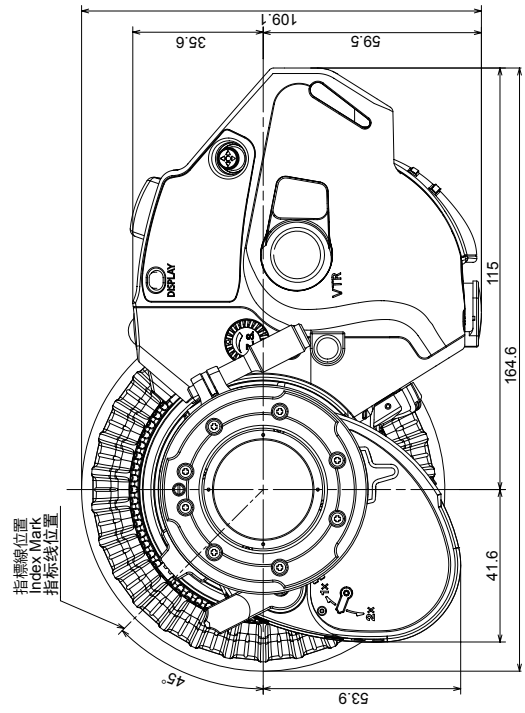
(Unit: mm)



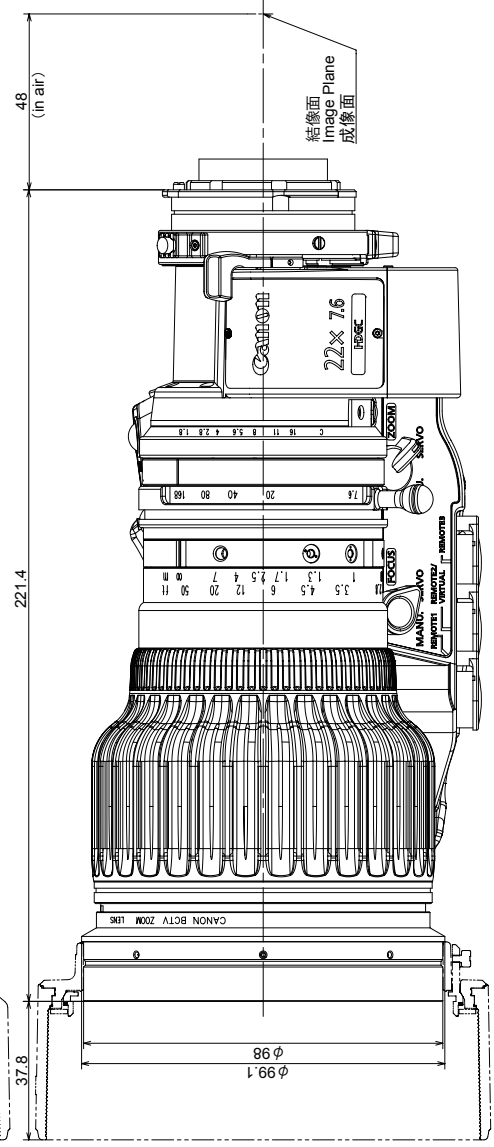
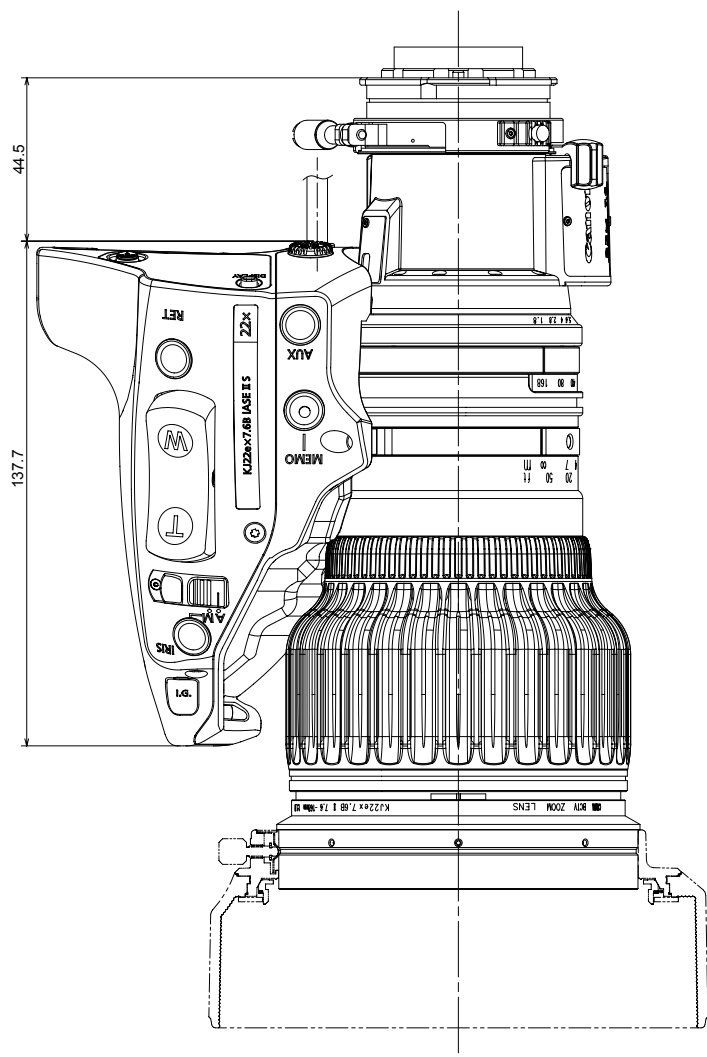
12. KJ22ex7.6B IASE II S



(Unit: mm)



指標線位置
Index Mark
指標線位置



結像面
Image Plane
成像面





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