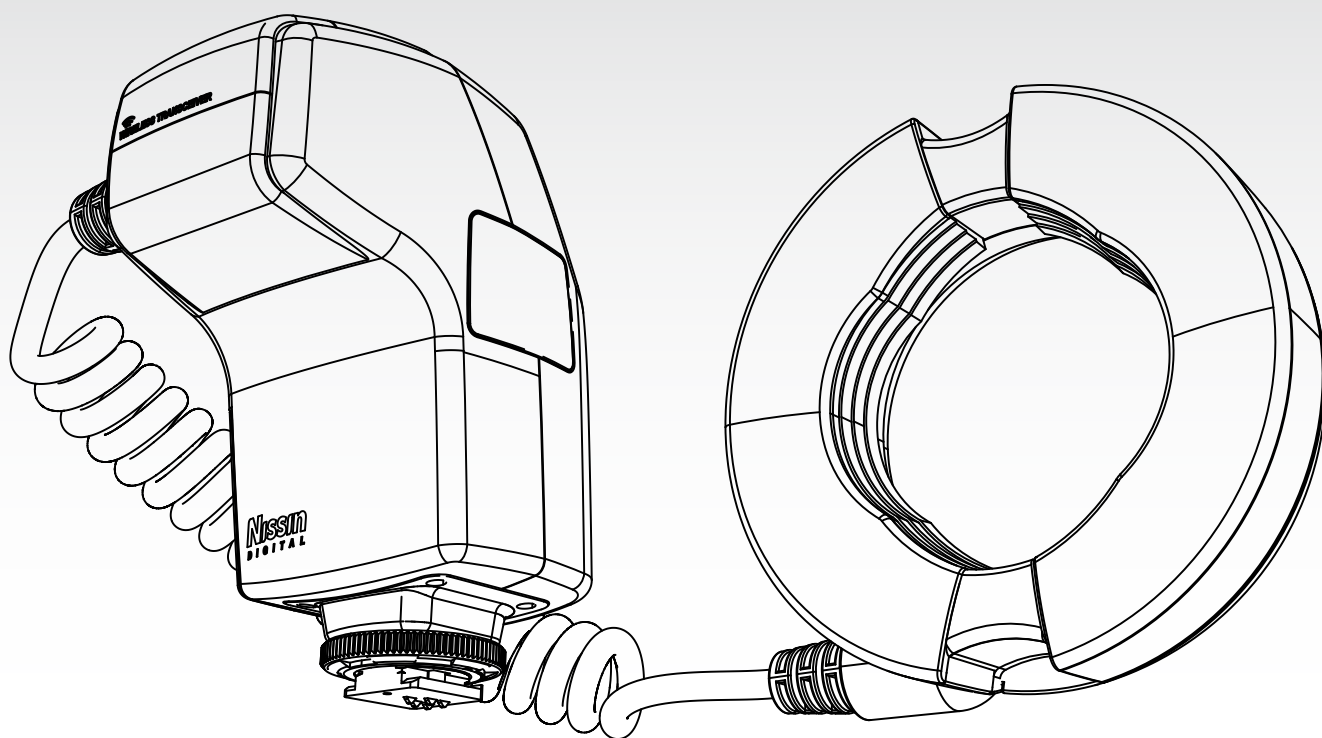


# MF18

Canon / Nikon / Sony

## INSTRUCTION MANUAL



# Thank you for purchasing a Nissin product

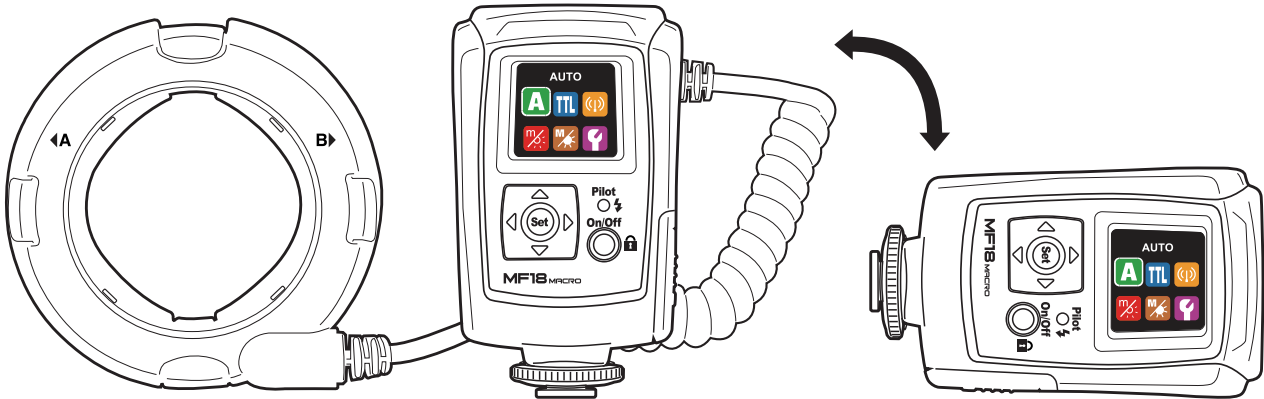
Before using this flash unit, please read this instruction manual and refer to the manual of camera owner carefully to get a better understanding of the proper operation to enjoy flash photography.

Nissin Macro Flash MF18 is a flash system for taking close-up photos of small subjects using a flash to eliminate shadows, allowing you to enjoy photography. This instruction manual is intended mainly for Canon or Nikon or Sony digital camera, with the latest TTL flash control system, and features Nissin's original rotating color display, easily guiding its operations.

It works automatically with Canon ETTL / ETTL II or Nikon i-TTL or Sony ADI/P-TTL auto-flash systems. The provided adapter rings make it available for use with different lens. Please note that MF18 is not usable with other branded cameras for TTL operation.

## Unique Function

The color display automatically rotates to allow for easy operation in both the horizontal and vertical positions.



## Simple Operation

When attaching MF18 to the camera, the basic flash exposure operation is fully controlled by the camera. It is the same idea as when you use the built-in camera flash, but it is placed on the hotshoe of the camera instead of using the built-in flash.

## Advanced Functions

MF18 provides advanced flash functions including 1st curtain synchronization, Rear curtain (2nd curtain) synchronization and High speed shutter synchronization are supported.

## Safety Instructions

These safety instructions refer to important information on how to use this product safely and properly. Please read the following instructions before using the product.



### CAUTIONS

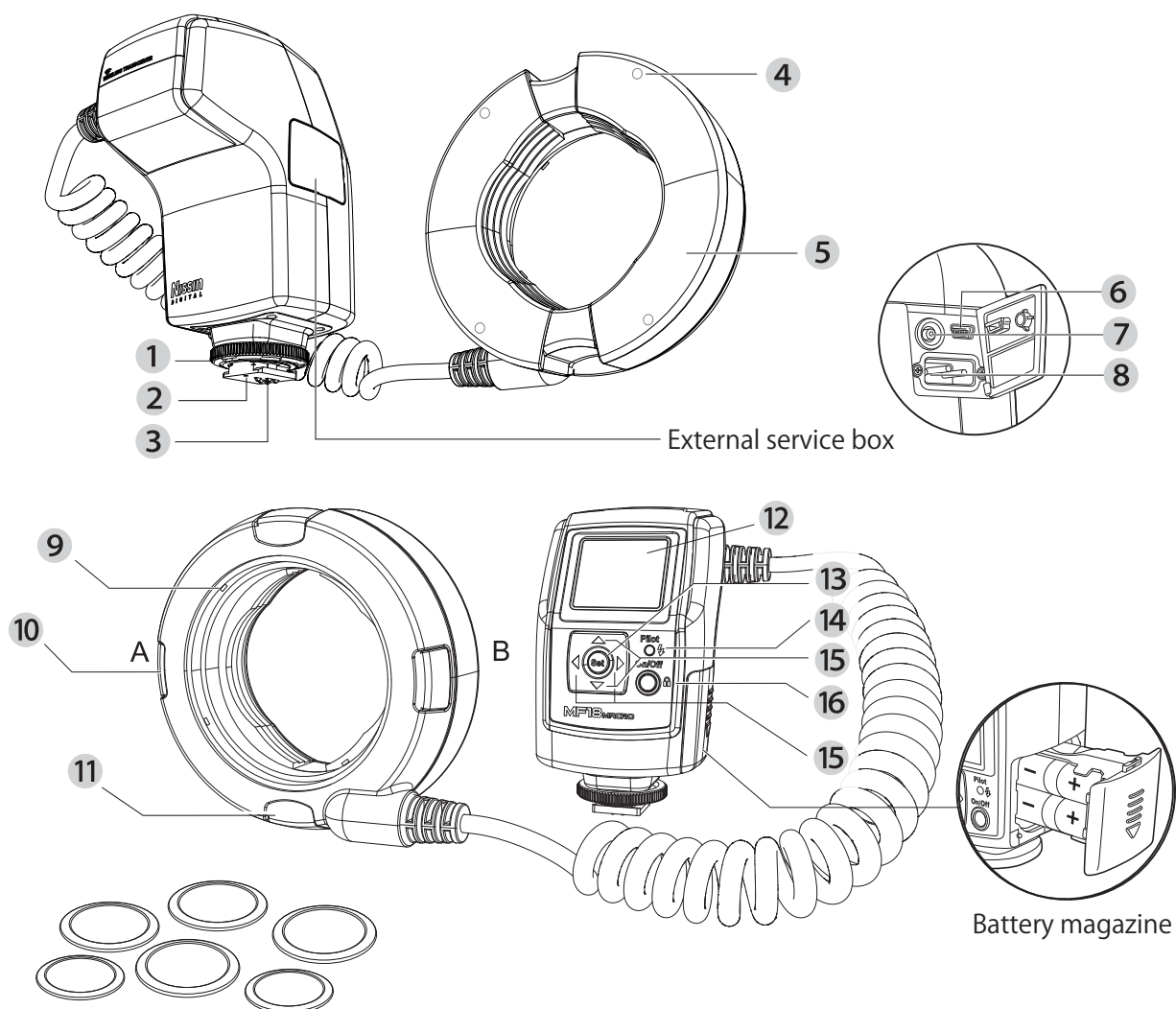
This sign refers to conditions which may cause damage or defect.

- Do not touch the inside parts from the opening when the unit was dropped or broken.
- Place the batteries correctly in position. Placing the batteries in wrong polarity may cause leakage, exothermic heat or explosion.
- Do not leave or store the commander unit in the temperature over 40°C/ 104°F, such as in the automobile.
- The commander unit is not water resistance. Keep the unit away from rain, snow and humidity.
- Do not use benzene, thinner or other alcoholic agents to clean the unit.
- Do not use this commander unit with cameras which are not recommended in the compatibility list at official website, otherwise it may damage the camera's circuitry<sup>(\*)</sup>.
- Remove the batteries when not in use for a longer period of time.
- Do not use the Nissin MF18 to pick up whole camera system when it installed on your camera. To pick up the whole camera system, you should hold the handle of camera body or the lens.

(\*) Please refer Nissin's compatibility chart shown here:

<https://www.nissindigital.com/compatibility-chart>

# Components





Adapter Rings x 6 (Included)  
 52 / 58 / 62 / 67 / 72 / 77 mm (Canon, Nikon)  
 49 / 55 / 62 / 67 / 72 / 77 mm (Sony)  
 \*49 / 55 / 82 mm (purchase for optional)

- |                     |                                |
|---------------------|--------------------------------|
| 1 Lock ring         | 10 Expansion button            |
| 2 Lock pin          | 11 Release button              |
| 3 Hotshoe contacts  | 12 Display screen              |
| 4 LED lamp          | 13 Set button                  |
| 5 Flash tube        | 14 Pilot button                |
| 6 USB service port  | 15 Select button               |
| 7 X-terminal        | 16 On/Off switch (Lock button) |
| 8 Power Pack socket |                                |
| 9 Mounting tabs     |                                |

## Menu Screen For Main Modes

MF18 Flash Modes and Functions - to be set on the flash unit.



-  ... Auto mode
-  ... TTL mode
-  ... Master mode
-  ... Fine Macro mode
-  ... Manual mode
-  ... Setting mode



Full Automatic Mode \_\_\_\_\_ page 11

Flash light is fully controlled by the camera for the most proper exposure.



TTL Program Mode \_\_\_\_\_ page 13

Flash light is automatically controlled by the camera but the flash exposure value can be compensated.



Wireless Mode (Master) \_\_\_\_\_ page 15

Selecting the desired manual power on the ring flash and controlling the slave flashes.



Fine Macro Mode \_\_\_\_\_ page 18

Setting the flash power from 1/128 to 1/1024 with 1/6 Ev steps.



Manual Flash Mode \_\_\_\_\_ page 19

Setting the flash power from 1/1 (Full) to 1/64 with 1/3 Ev steps.



Custom Setting Mode \_\_\_\_\_ page 20

Variety of custom settings is available for own default value.

# Advanced Functions

## For Canon: Functions by Flash setting



**FE. Lock** \_\_\_\_\_ page 21

Flash exposure can be locked at the main subject while moving the framing.



**1st curtain synchronization** \_\_\_\_\_ page 22

The flash fires immediately after the first curtain has fully opened.



**High speed shutter synchronization** \_\_\_\_\_ page 22

Flash synchronizes to the faster shutter speed than regular synchronization speed.



**2nd curtain synchronization** \_\_\_\_\_ page 23

The flash fires just before the 2nd curtain closes. A moving subject will appear with such moving marks behind.

## For Nikon: Functions by Camera setting



**Fv. Lock** \_\_\_\_\_ page 21

Flash exposure can be locked at the main subject while moving the framing.



**1st curtain synchronization** \_\_\_\_\_ page 24

The flash fires immediately after the first curtain has fully opened.



**High speed shutter synchronization (FP)** \_\_\_\_\_ page 24

Flash synchronizes to the faster shutter speed than regular synchronization speed.



**Rear curtain synchronization** \_\_\_\_\_ page 24

The flash fires just before the rear curtain closes. A moving subject will appear with such moving marks behind.

## For Sony: Functions by Flash setting



**1st curtain synchronization** \_\_\_\_\_ page 25

The flash fires immediately after the first curtain has fully opened.



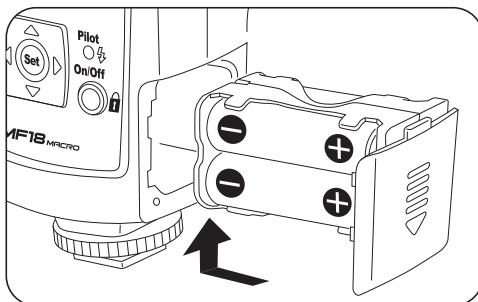
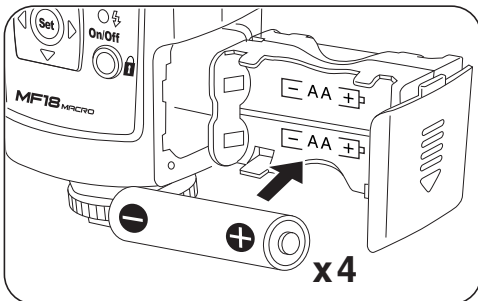
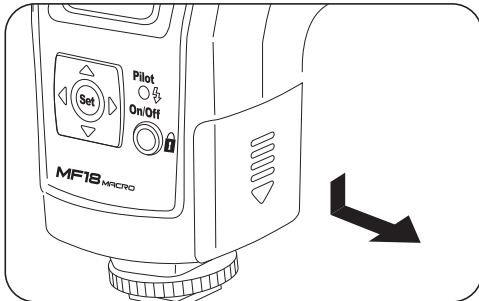
**High speed shutter synchronization** \_\_\_\_\_ page 25

Flash synchronizes to the faster shutter speed than regular synchronization speed.

# Basic Operation

## Inserting batteries

Usable batteries - Alkaline batteries, NiMH batteries.



1. Remove the battery magazine and insert 4 x size AA batteries as shown in the picture.
2. The battery magazine is specially designed so that every battery is placed in the same direction to avoid the confusion in poor light condition.
3. +/- symbol is clearly marked at the battery compartment.
4. Place the battery magazine back into the body.

When the recycle time becomes longer than 20 seconds, replace the batteries with fresh ones or recharge the batteries (rechargeable batteries).

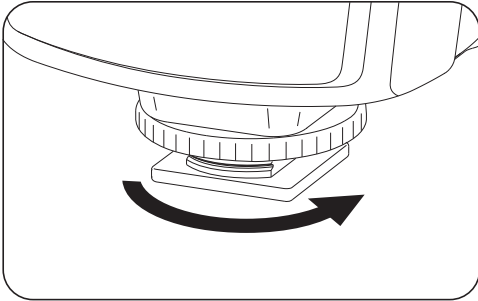
### NOTE

It is recommended to use all 4 batteries in same brand and type, and replace them all at the same time.  
Wrong insertion of each cell would not make electric contact.

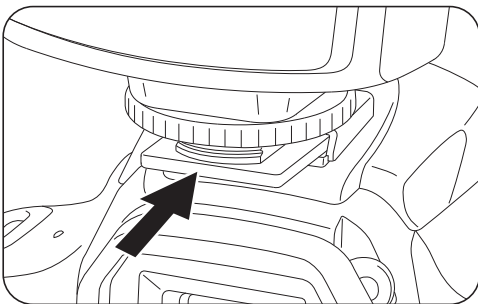


## Basic Operation

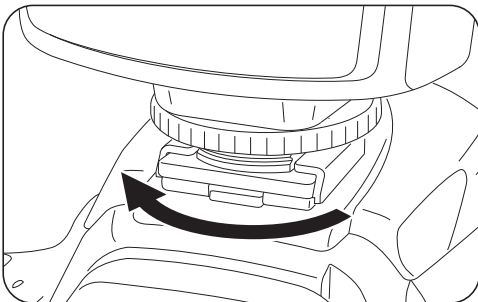
### Mounting MF18 on the Camera



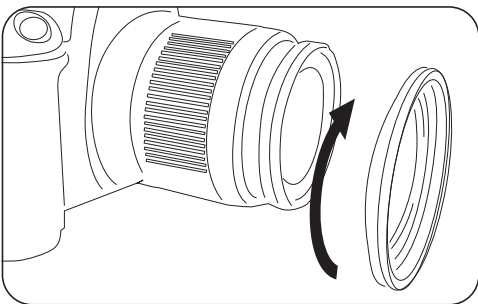
1. Turn off the power switch of both MF18 and the camera.
2. Loosen the lock ring of MF18 so the hotshoe mounts easily.



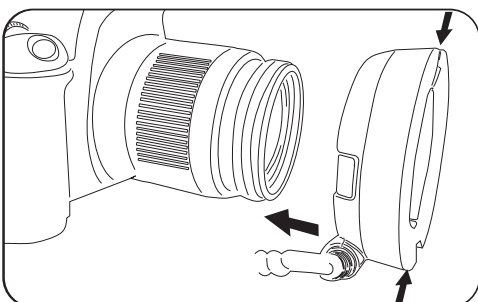
3. Slide the mounting foot of MF18 into the hotshoe of the camera from the back.



4. Turn the lock ring to opposite direction and tighten it.



5. Screw the adapter ring that is the same size as the lens onto the front thread of the lens.



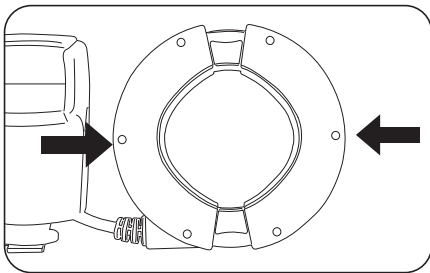
6. Attach the flash head to the adapter. Press the release buttons on top and bottom of the flash head to insert the four mounting tabs on the inside of the flash head correctly into the groove on the adapter ring.
7. After the flash head is attached, pull it lightly to make sure the tabs are inserted into the groove correctly.

## Basic Operation

### Expansion of the Flash Head

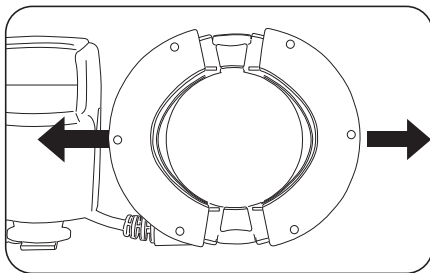
After the flash head has been attached, should you experience vignetting due to the flash covering a part of the lens, it is recommended that the flash ring be expanded to its wide position. This should eliminate the dark corners on the image. (It is also depending on the angle of view).

Remark: This Macro flash is preferable to apply on macro lens. For zoom lens, please adjust the suitable position to prevent the dark corners.



1. Press the expansion buttons on the sides of flash head.

2. The flash head is expanded. It is possible to expand one side if necessary.



3. To close the expansion, push it lightly back to the original position.

### Removing MF18 from the Camera

Loosen the lock ring and slide the mounting foot of MF18 off the hotshoe of the camera. Make sure to turn the lock ring all the way to completely clear the lock pin off the hooking slot on the hotshoe. Press the release button on the flash head and remove. Screw the adapter ring off the front thread of the lens.

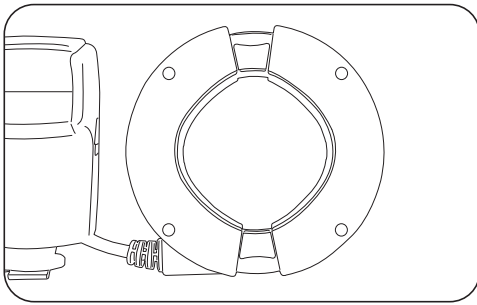
### Turn on the flash unit

- Press the on/off switch. Main screen appears.
- The pilot lamp blinks red showing the unit is charging.
- In a few seconds, the pilot lamp turns green.
- The display screen automatically turns off in about 30 seconds after the setting job is terminated.
- For a test-flash, press the pilot lamp.
- To turn off the flash unit manually, press the on/off switch and hold it for 2 seconds.

## Basic Operation

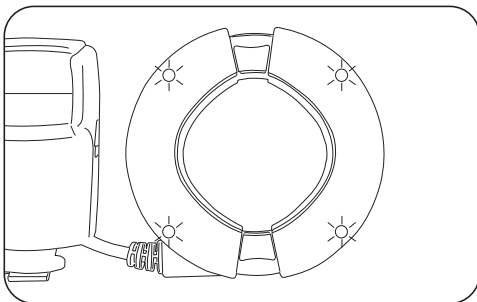
### Modelling LED lamps function

The modelling LED lamps with light ratio control, makes it easy to focus on the shooting subject. The brightness reflects flash power ratio setting of side A and B; therefore, the desired effect can be previewed.



1. To switch on the modeling LED lamps, press **Set** for 2 seconds.

2. The LED lamps switch off temporarily when the flash fires, then switch on again for the next shoot. The icon (💡) is indicated on the screen.



3. To switch off the modeling LED lamps, press **Set** for 2 seconds.

### MF 18 has energy saving double power off function.

1. The power is automatically turned off (to stand-by mode), in about 30 seconds of idle use on the camera or after the last setting is made. To save the battery energy, you can select the display-off setting from the custom setting. In this case, the display screen turns off in about 8 seconds of idle use.

While MF18 is in the stand-by mode, display screen turns off and the pilot lamp blinks every 2 seconds showing the flash unit is in stand-by mode.

To turn on MF18 again, press the camera's shutter button halfway or press any button of the flash unit.

2. In case the MF18 is not in use over 30 minutes, the unit is completely turned off. To turn on MF18 again, take the first step of turning the flash unit on.

The mode and the value set on the flash unit before turning off is memorized and returns in the same condition when switched on again.

## Setting Mode and Function

### A

### Full Automatic Flash Control

The modes to be set on the camera (For Canon):

[  ] (Full Auto), [ **P** ] (Program), [ **Tv** ] (Shutter priority),

[ **Av** ] (Aperture priority), [ **M** ] (Manual),



Portrait,



Landscape,



Close-up,



Sports,



Night Portrait.

The modes to be set on the camera (For Nikon):

[  ] (Full Auto), [ **P** ] (Program), [ **S** ] (Shutter priority),

[ **A** ] (Aperture priority), [ **M** ] (Manual),



Night,



Macro,



Sport,



Kids,



Scene,






Portrait

The modes to be set on the camera (For Sony):

[  ] (Full Auto), [ **P** ] (Program), [ **S** ] (Shutter priority),


[ **A** ] (Aperture priority), [ **M** ] (Manual),

In all those camera's modes listed above, MF18 will automatically and fully work in E-TTL / iTTL / P-TTL automatic flash control system.




- Set MF18 to the camera's hotshoe and press the on / off switch to power on.
- Display screen automatically shows the Full Automatic Mode.
- MF18 is now set for the camera's automatic flash control system.
- Press the on/off switch once again to lock this condition on your flash. (Press it again to release the lock)
- All the jobs required for this mode are completed.
- To switch on the modeling LED, press  for 2 seconds until the modeling LED icon  is on. The icon switches off temporarily when fires or press the  button for 2 seconds to switch off.



## Setting Mode and Function

- When the pilot lamp turns green, press the shutter button of your camera halfway to focus the subject.
- Shutter speed, aperture and flash mark (  ) are shown in camera's view finder and the display panel of the camera.
- Press the shutter, and MF18 is fired. The result is immediately shown on the camera's LCD monitor.
- Flash power is automatically controlled by the camera and the most proper exposure is obtained on your picture. The flash power of Side A and B are equal.

MF18 is a supplement to help you in taking creative and live picture. While you are taking pictures in Full Automatic mode, almost all jobs are automatically done by the camera and you just control the camera only.

Mode			Shutter Speed	Aperture Setting	Control on the camera
Canon	Nikon	Sony			
[  ]	[  ]	[  ]	Automatic	Automatic	Automatic
[ <b>P</b> ]	[ <b>P</b> ]	[ <b>P</b> ]	Automatic	Automatic	Automatic
[ <b>Tv</b> ]	[ <b>S</b> ]	[ <b>S</b> ]	Manual	Automatic	Any available shutter speed can be set.
[ <b>Av</b> ]	[ <b>A</b> ]	[ <b>A</b> ]	Automatic	Manual	Any available f-stop can be set.
[ <b>M</b> ]	[ <b>M</b> ]	[ <b>M</b> ]	Manual	Manual	Any shutter speed / f-stop combination can be set.

## Setting Mode and Function



### TTL Flash Exposure Value Compensation

With the latest TTL flash control system, the flash power level is always automatically controlled by the camera for the most appropriate exposure. You can soften or weaken the flash light, or give more light to the subject without changing the environmental or background exposure effect

The modes to be set on the camera (For Canon):

[] (Full Auto), [ **P** ] (Program), [ **Tv** ] (Shutter priority),

[ **Av** ] (Aperture priority), [ **M** ] (Manual), [ **A-DEP** ] Automatic depth-of-field,

Portrait, Landscape, Close-up, Sports, Night Portrait.

The modes to be set on the camera (For Nikon):

[ ] (Full Auto), [ **P** ] (Program), [ **S** ] (Shutter priority),

[ **A** ] (Aperture priority), [ **M** ] (Manual),

Night, Macro, Sport, Kids, Scene, Portrait

The modes to be set on the camera (For Sony):

[ ] (Full Auto), [ **P** ] (Program), [ **S** ] (Shutter priority),

[ **A** ] (Aperture priority), [ **M** ] (Manual),

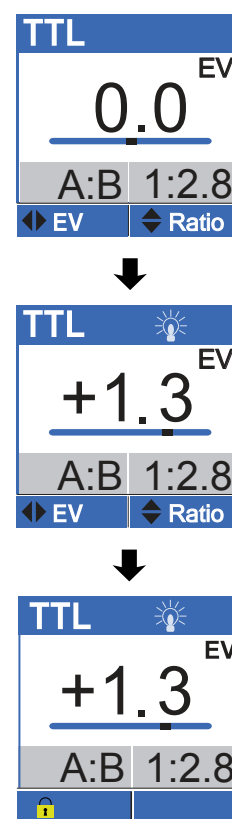
In all those camera's modes listed above, MF18 will automatically and fully work in E-TTL / iTTL / P-TTL automatic flash control system.

- Set MF18 to the camera's hotshoe and attach the flash head to the len with suitable adapter ring. Press the on / off switch to power on.
- Display screen shows A. Press and the display turns to the screen of 6 icons (main menu).
- Select TTL by select button and set . Or the display returns back to the Auto mode screen in about 8 seconds.



## Setting Mode and Function

- The TTL flash exposure compensation value 0.0Ev is shown as a default setting.
- TTL flash exposure compensation is provided in 19 steps by 0.3 Ev increment from -3.0···0···to +3.0 Ev.
- Select ◀▶ the EV compensation value you desire.
- To set the power ratio of side A (left) and B (right), select ◆ the ratio. The power level ratio can be selected from 15 different combinations with 0.5 Ev steps, A:B = 1:--- (flash off) – 8:1 – 5.6:1 – 4:1 – 2.8:1 – 2:1 – 1.4:1 – 1:1 – 1:1.4 – 1:2 – 1:2.8 – 1:4 – 1:5.6 – 1:8 – --- (flash off):1.
- To switch on the modeling LED, press **Set** for 2 seconds until the modeling LED icon (💡) is on. The icon switches off temporarily when the flash fires or press the **Set** button for 2 seconds to switch off. The power level ratio of modeling LED can be selected from 15 different combinations.
- To keep this value on your flash, press on / off switch to lock. (Press it again to release the lock)
- Take a picture and the aimed subject is shown with required lighting effect by keeping the exposure level of background as originally expected.
- On some cameras, the TTL flash exposure compensation can be set on the camera.
- When the flash exposure compensation is set on the flash unit, this value is to be counted in addition to the compensation value you set on the camera.
- The display screen of the flash unit however shows the exposure compensation value set on the flash unit only.



## Setting Mode and Function



### Wireless Mode (Master)

The modes to be set on the camera (For Canon):

[**A<sup>+</sup>**] (Full Auto), [ **P** ] (Program), [ **Tv** ] (Shutter priority),  
[ **Av** ] (Aperture priority), [ **M** ] (Manual)

The modes to be set on the camera (For Nikon):

[ **<sup>AUTO</sup>** ] (Full Auto), [ **P** ] (Program), [ **S** ] (Shutter priority),  
[ **A** ] (Aperture priority), [ **M** ] (Manual)

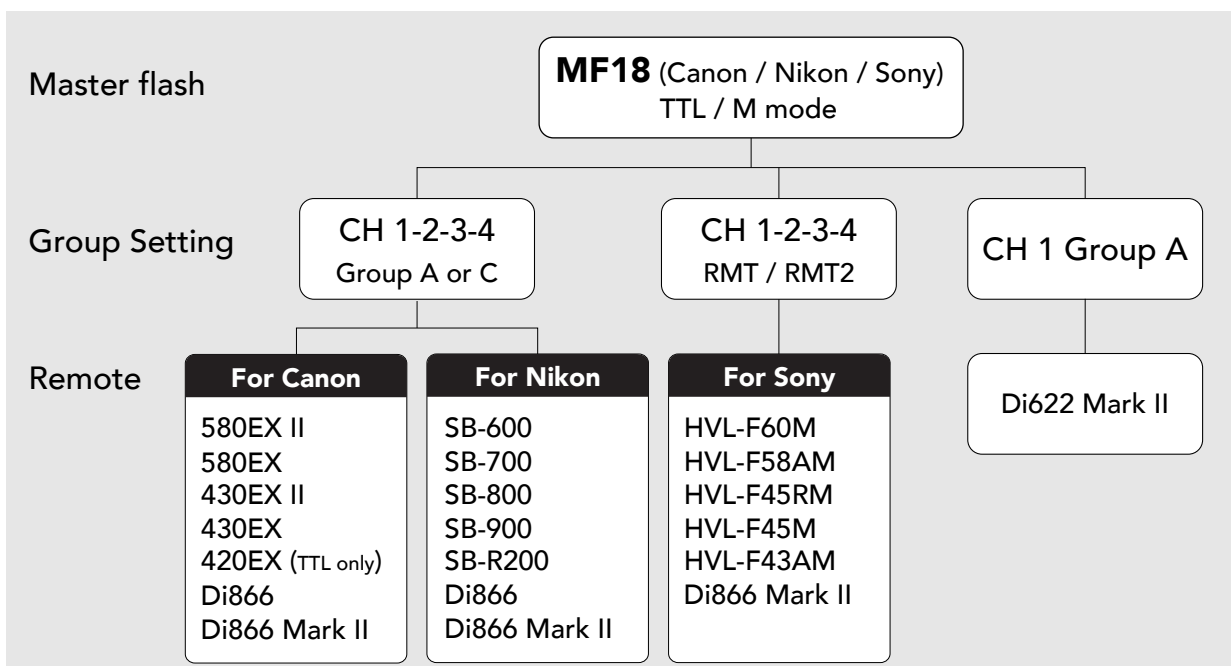
The modes to be set on the camera (For Sony):

[ **AUTO** ] (Full Auto), [ **P** ] (Program), [ **S** ] (Shutter priority),  
[ **A** ] (Aperture priority), [ **M** ] (Manual),

MF18 provides wireless Master / Remote (slave) wireless flash system. The Ring flash placed on the camera is called "Master"- Group A and B. The flash unit placed off the camera is called "Remote (Slave) Flash". Multiple number of flashes can be set and controlled in Groups A or C; 4 channels are prepared for signal transmission between the Master flash and the Remote(Slave) flash.

### Available combination of flash models and cameras

#### Wireless TTL Flash Pairing Chart





# Setting Mode and Function

## ● In the main page

Navigate the cursor and adjust the value according to the instruction at the bottom bar.

◀▶▶▶ **Cursor Navigation**

◀▶▶▶ **Value Adjust**

## ● Channel Select

Select Channel: Ch1, Ch2, Ch3 & Ch4

## ● +/- EV (EV compensation)

Ev compensation at TTL mode can be selected from -3.0 Ev to +3.0 Ev with 1/3 Ev steps.

## ● Group Setting

Canon, Nikon

Master	
Channel	1
+/- EV	+3.0
A TTL	---
B TTL (A:B)	1:1
C TTL	+3.0

Sony

Master	
Channel	1
+/- EV	+3.0
A TTL	---
B TTL (A:B)	1:1
RMT	+3.0

Canon, Nikon

A	TTL	0.0
B	TTL (A:B)	1:1
C	TTL	0.0

Sony

A	TTL	0.0
B	TTL (A:B)	1:1
	RMT	0.0

### Group

A = Left flash

B = Right flash

C/RMT = Remote flash

### Flash Mode

TTL = TTL Mode

M = Manual Mode

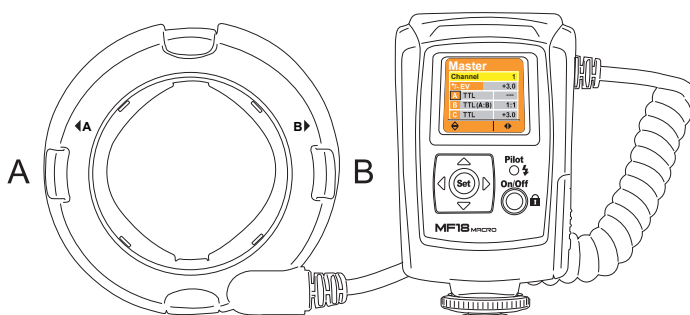
RMT = Remote TTL Mode

### Value Adjustment

Ev compensation at TTL mode  
(-3.0Ev to +3.0Ev)

Power Ratio at **TTL** mode  
(---:1, 1:8, 1:5.6, 1:4, 1:2.8, 1:2,  
1:1.4, 1:1, 1.4:1, 2:1, 2.8:1, 4:1,  
5.6:1, 8:1, 1: ---)

Power Ratio at **M** mode (Canon, Nikon)  
(---, 1/128, 1/100, 1/80, 1/64, 1/50,  
1/40, 1/32, 1/25, 1/20, 1/16, 1/13,  
1/10, 1/8, 1/6.4, 1/5, 1/4, 1/3.2, 1/2.5,  
1/2, 1/1.7, 1/1.3, 1/1)



## Setting Mode and Function

The flash unit has two modes for adjusting the amount of light produced by the flash: An automatic mode (TTL mode) and Manual mode (M Mode).

### Selecting TTL (Canon, Nikon)

1. Select the Channel from Ch1 to Ch4.
2. Navigate the cursor to **Group A** and set **TTL**. Adjust and set the EV compensation level from -3.0Ev to +3.0Ev.
3. When **Group A** is set **TTL**, **Group B** is automatically set to **TTL (A:B)**. Navigate the cursor to **Group B** and set the ratio of A:B from --- (flash off):1 to 1: --- (flash off) with 0.5 Ev steps.
4. For the remote flash, navigate the cursor to **Group C**. Adjust and set the EV compensation level of **Group C** from -3.0Ev to +3.0Ev.

Master		
Channel		1
+/- EV		+3.0
A	TTL	---
B	TTL (A:B)	1:1
C	TTL	+3.0
◀ ▶ ▶▶		

### Selecting Manual (Canon, Nikon)

1. Select the Channel from Ch1 to Ch4.
2. Navigate the cursor to the **Group A** and set **Manual**. Adjust and set the power ratio from --- to 1/1.
3. When **Group A** is set **Manual**, **Group B** is automatically set to **Manual**. Navigate the cursor to **Group B** and set the power ratio from --- (flash off) to 1/1 with 1/3 Ev steps.
4. For the remote flash, navigate the cursor to **Group C**. Adjust and set the power ratio from 1/128 to 1/1.

Master		
Channel		1
+/- EV		---
A	M	1/128
B	M	1/128
C	M	1/16
◀ ▶ ▶▶		

### Selecting RMT (Sony)

1. Select the Channel from Ch1 to Ch4.
2. Navigate the cursor to **Group A** and set **TTL**. Adjust and set the EV compensation level from -3.0Ev to +3.0Ev.
3. When **Group A** is set **TTL**, **Group B** is automatically set to **TTL (A:B)**. Navigate the cursor to **Group B** and set the ratio of A:B from --- (flash off):1 to 1: --- (flash off) with 0.5 Ev steps.
4. For the remote flash, navigate the cursor to **RMT**. Adjust and set the EV compensation level of **RMT** from -3.0Ev to +3.0Ev.
5. When **Group A** is set **Manual**, **Group B** is automatically set to **Manual**. Navigate the cursor to **Group B** and set the power ratio from --- (flash off) to 1/1 with 1/3 Ev steps.
6. The off-camera flash fires with the power level set in each flash when the off-camera flash is in the Manual Mode. Changing RMT level will not affect the off-camera flash.

\*Remark: Setting Group C in Master flash can also control the slave flash with wireless

remote setting in Group A or C.

## Setting Mode and Function



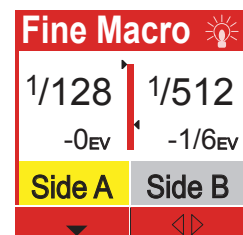
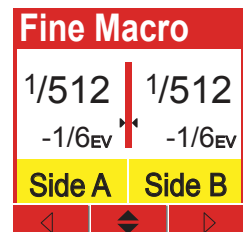
### Fine Macro Mode

The Fine Macro mode provides the setting of power ratio from 1/128 to 1/1024 with 1/6 EV steps. (\*Remark: Fine Macro mode is not available for all shutter functions)

◀▶ Cursor navigation

⬆⬇ Value adjustment

- Select Fine Macro in main menu, press **Set**.
- To set the desired power ratio of both Side A and B, navigate the ⬆⬇ to adjust the power ratio OR  
To set the desired power ratio of either Side A or B, navigate the ▶◀ to select and set the power ratio individually.
- The power ratio can be selected from 1/128 to 1/1024 with 1/6 EV steps.
- To switch on the modeling LED, press **Set** for 2 seconds until the modeling LED icon (💡) is on. The icon switches off automatically after fired or press the **Set** button for 2 seconds to switch off.



# Setting Mode and Function



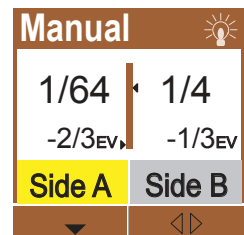
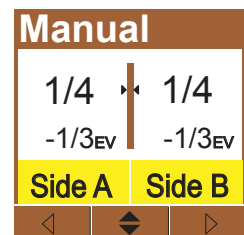
## Manual Mode

The Manual mode provides the setting of power ratio from 1/1 (full) to 1/64-2/3EV or OFF (Side A or B) with 1/3 EV steps.

◀▶ Cursor navigation

⬆⬇ Value adjustment

- Select Manual in main menu, press set **Set**.
- To set the desired power ratio of both Side A and B, navigate the ⬆⬇ to adjust the power ratio **OR**  
To set the desired power ratio of either Side A or B, navigate the ▶◀ to select and set the power ratio individually.
- The power ratio can be selected from 1/1 to 1/64 (or OFF) with 1/3 EV steps.
- To switch on the modeling LED, press **Set** for 2 seconds until the modeling LED icon (💡) is on. The icon switches off automatically after fired or press the **Set** button for 2 seconds to switch off.



# Setting Mode and Function



## Custom settings

A variety of custom settings enable you to customize your MF18.

- Press **Set** to enter the Custom setting page.
- Select the item to be customized and set the value to customize.
- 6 custom settings are prepared.

### My TTL TTL Exposure level custom setting

TTL exposure level is accurately calibrated for standard balance in accordance with Nissin's standard. If any adjustment is however required, or if you like to set your own preferable level, it can be adjusted for about  $\pm 3\text{Ev.}$  by every  $1/3$  steps.

Setting 1/2	
My TTL	0.0
Display	On
Rotate	On
Auto Off	30 min

### Display Display can be set off if it's not necessary.

To save battery energy, or imply to avoid the display illumination, the display screen can be switched off when not in operation. Set it off, and the display goes off in 8 seconds after the last operation. The display will not be woken up by the camera's shutter release. The display can only be woken up by the operation button of MF18.

### Rotate Cancel the rotating action and keep the image fixed. The screen won't rotate.

### Auto Off Auto off timing can be selected from 10min. 15min, 30min, 45min, 60min or off (cancel).

Setting 1/2	
My TTL	0.0
Display	On
Rotate	On
Auto Off	30 min

### Shutter Shutter functions can be selected from 1st Curtain synchronization, High Speed synchronization and 2nd curtain synchronization(Canon only).

For Canon and Sony

Setting 1/2	
Shutter	
My TTL	0.0
Display	On
Rotate	On
Auto Off	30 min

## Setting Mode and Function



### Custom settings

#### Reset

All the custom settings are reset to the default values and conditions which are provided and set at the factory.


- Those customized value and conditions are effective on all modes and memorized even when the flash unit is switched off.
- To reset the customized value or conditions, select **Reset**, choose "Yes" and **Set** . All the memorized data is cancelled and MF18 is reset to the default value and condition.

#### Other shutter functions by camera setting

For Canon cameras



##### FE Lock

MF18 offers this function at TTL mode. Focus the main subject and press <  > button on the camera (or < FEL > button on some cameras. Exposure value on the main subject is memorized in the flash. Aim the viewfinder center over the main subject and release the shutter.

For Nikon cameras



##### FV Lock

MF18 offers this function at TTL mode. Default the Fn button to FV lock. Press the Fn button to lock flash value. Press again to cancel Fv lock. Exposure value on the main subject is memorized in the flash. Aim the viewfinder center over the main subject and release the shutter.

# Setting Mode and Function

## Advanced Custom Setting


An ADVANCED CUSTOM SETTING enables you to enjoy creative flash photography. For advanced flash photography, the following functions can be set on your flash or camera according to the camera model.

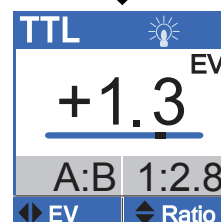
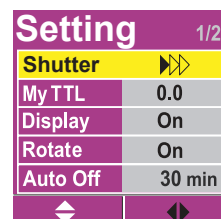
**For Canon** (Shutter functions setting by flash)



### 1st curtain synchronization



Usually, the flash fires immediately after the first curtain has fully opened. This is called 1st curtain. This method is usually used during flash shooting.

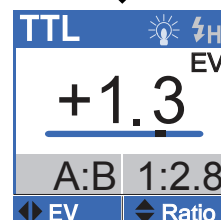
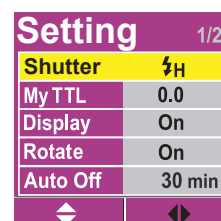
- Return to the main menu, press **Set**. Select SETTING and press **Set**.
- Navigate the cursor to Shutter and select , then press **Set**.
- Set the EV compensation value and power ratio level you desire.



### High speed shutter synchronization

MF18 synchronizes to the highest shutter speed set on the camera. To capture subject with softening off the back ground in daylight synchronization photography, the shutter speed is to set at higher than the regular synchronization speed.

- Return to the main menu, press **Set**. Select SETTING and press **Set**.
- Navigate the cursor to Shutter and select , then press **Set**.
- Select TTL in the main menu, the High speed synchronization icon (  ) switches on.
- Set the EV compensation value and power ratio level you desire.





# Setting Mode and Function

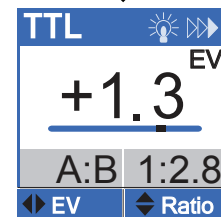
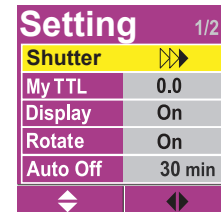
For Canon (Shutter functions setting by flash)



## 2nd curtain synchronization

In 2nd curtain sync., the flash fires just before the 2nd curtain closes. By using this function at slow shutter speeds, a moving subject will appear with moving marks behind. Refer to the operation manual of the camera for details.

- Return to the main menu, press **Set**. Select SETTING and press **Set**.
- Navigate the cursor to Shutter and select , then press **Set**.
- Select TTL in the main menu, the 2nd curtain synchronization icon (  ) switches on.
- Set the EV compensation value and power ratio level you desire.





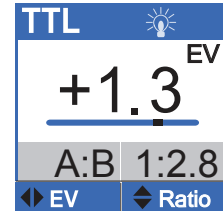
# Setting Mode and Function

## For Nikon (Shutter functions setting by camera)

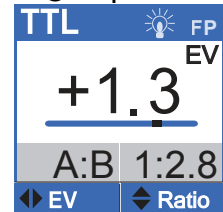
For Nikon cameras, the shutter functions need to be set at the camera and the icon indicates the current setting.

- Select the TTL in the main menu and press **Set**.
- Set the shutter function in the camera.
- The shutter function is shown.
- Set the EV compensation value and power ratio level you desire.

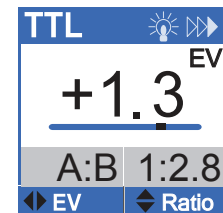
### 1st Curtain



### High Speed



### Rear Curtain



# Setting Mode and Function

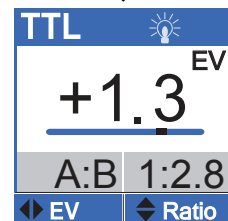
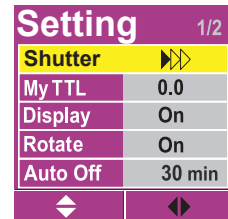
For Sony (Shutter functions setting by flash)



## 1st curtain synchronization

Usually, the flash fires immediately after the first curtain has fully opened. This is called 1st curtain. This method is usually used during flash shooting.

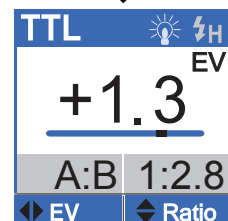
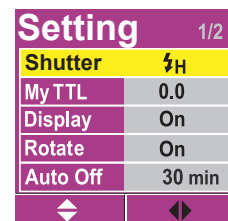
- Return to the main menu, press **Set**. Select SETTING and press **Set**.
- Navigate the cursor to Shutter and select **▶▶**, then press **Set**.
- Set the EV compensation value and power ratio level you desire.



## High speed shutter synchronization

MF18 synchronizes to the highest shutter speed set on the camera. To capture subject with softening off the back ground in daylight synchronization photography, the shutter speed is to set at higher than the regular synchronization speed.

- Return to the main menu, press **Set**. Select SETTING and press **Set**.
- Navigate the cursor to Shutter and select **⚡H**, then press **Set**.
- Select TTL in the main menu, the High speed synchronization icon ( **⚡H** ) switches on.
- Set the EV compensation value and power ratio level you desire.



## Other Features

### External Power Pack Socket

When using an external power source, the number of flashes is increased and the recycling time is shortened. The following external power pack is available in option.



MF18 is automatically turned off when repeating flash continuously over

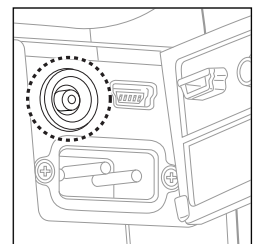
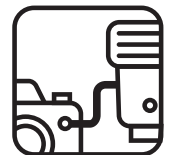
20 to 30 times to protect the flash circuitry. It will be automatically reset after 15 minutes of inactivity. Please note that the basic operation is controlled by the main batteries (battery magazine) in the flash unit and when the main batteries are exhausted, the flash control system does not work. Replace the batteries when recycle time becomes longer than 20 seconds by main batteries only.

Battery = NiMH battery	Operation Modes	Recycle time
Nissin Power Pack PS 300	500 flashes	0.7 sec.
Nikon SD-8A / SD-9	200 flashes	1.5 sec.
Canon CP-E4	260 flashes	1.5 sec.

OVERHEAT

### X-terminal

MF18 has X-terminal contact to support a flash synchronization. The external flash can be triggered by the MF18 through X-terminal. A standard sync-cable in the market is usable.



## Guide Number table

Guide No. at manual exposure mode (ISO 100 in meters)

### Flash Power Level

Full	1/2	1/4	1/8	1/16	1/32	1/64	1/128
16	11.31	8	5.66	4	2.83	2	1.41

Remarks: Please be aware that calculating the f-number by dividing the guide number by the distance will not result in correct f-numbers when the distance is shorter than approx. 1 meter. This calculation requires that the size of the light source is very small compared with the distance. This condition is not met at short distances. Therefore we recommend to use the TTL mode at short distances instead of manual mode with calculation of the f-number.

## TROUBLE SHOOTING

The flash unit does not start charging.

- Batteries are not correctly installed  
>>> Re-install batteries to correct problem.
- Batteries are exhausted  
>>> Replace the batteries if the recycle time is beyond 20 seconds

The flash unit does not flash.

- The flash unit is not firmly clipped on the camera  
>>> Mount the flash unit firmly on the camera's hot shoe.
- The flash unit is automatically powered off  
>>> Turn on the switch again.

The flash picture is overexposed or underexposed.

- There is a reflective object or strong lighting near the subject.  
>>> Use Fv lock FE lock
- The unit is set for manual exposure mode at wrong distance  
>>> Set to TTL mode or select other power level.

## Specifications

Usable cameras	Canon ETTL, Nikon iTTL flash system SLR, Sony ADI/P-TTL and hotshoe type Compact digital cameras-ref. Nissin official website for camera models.
Guide No.	16 / 53 (ISO 100 m/ft)
Flash energy	83 Ws at full power
Illumination coverage	80° vertical, 80° horizontal
Power source	Four size-AA Alkaline / Ni-MH
Battery life (Approx. flash count)	120-800 flashes (with size-AA alkaline batteries)
Energy Saving	Factory setting :Stand-by mode in 30 seconds, Power off in 30 minutes Custom setting: 10min, 15min, 30min, 45min, 60min or off (cancel)
Recycle time	0.1 ~ 5.5 seconds with Alkaline / NiMH batteries
Color Temperature	5600 K at full power flash
Flash Duration	1/700 seconds at full power (When A and B tube flash together) 1/300 seconds at full power flash (When A or B tube flash individually) 1/700-1/30,000 seconds (When A and B tube flash together) FP flash for high speed synchronization
Wireless flash	Optical pulse 4 channels Transmission angle approx. 80° top / bottom 80° left / right Controllable slave group: Group A / Group C
Lens adapter range	49 - 82mm 52 / 58 / 62 / 67 / 72 / 77 mm for Canon / Nikon 49 / 55 / 62 / 67 / 72 / 77 mm for Sony * 49 / 55 / 82 mm are optional for purchase
External Power Pack	Service socket for the external power pack(optional accessory) Nissin Power Pack PS8 Canon Power Assist Pack CP-E4 Nikon Power Assist Pack SD-8A and SD-9 Sony FA-EBA1
Sync. Contact	Camera's hot shoe ETTL (Canon) / i-TTL (Nikon) / Multi Interface (Sony) Traditional sync. System X-terminal socket
Dimensions	Main body: 115 x 65 x 85mm (4.5 x 2.6 x 3.3 inch) Ring flash: 120 x 134 x 41mm (4.7 x 5.3 x 1.6 inch)
Weight	446 g (15.7oz) w/o battery

# Warranty

In case of the following reason of the defect, it may void the warranty.

1. The product is not used in accordance with the instruction of the owner's manual.
2. The product is repaired or modified by the one who is not an authorized repair service.
3. When the product is used with the cameras not applicable, lens, adaptors or such accessories produced by the third party.
4. Fault or defect caused by fire, earthquake, flood, public pollution and such natural accident.
5. In case that the product is stored in dust, moisture, extremely high temperature or such poor condition.
6. Scratch, blemish, crush or worn out by a violent use or treatment.
7. Guarantee card without name of place purchased or date of purchase stamped, or no guarantee card.

Please refer the respective warranty condition for details which depends on the country of purchase and contact our official distributors who distributed this product for the warranty arrangement details.

***Nissin***

Nissin Japan Ltd., Tokyo  
<https://www.nissin-japan.com/>

Nissin Marketing Ltd., Hong Kong  
<http://www.nissindigital.com>