TERADEK RT

CTRL.3
Quick Start Guide

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COMPATIBLE DEVICES

To take advantage of the features and functionality that CTRL.3 has to offer, you will need to pair the controller with a compatible Teradek RT receiver and configure up to three Teradek RT motors.

MDR.X

MOTR.X

POWER AND CONNECT

1. Connect power to the receiver's **PWR** port **(N)**.
2. Attach the motor(s) to the rods/lens.
3. Connect the motor(s) to the receiver using a 4-pin connector. If connecting two or more motors, use a 4-pin to 4-pin connector to daisy-chain them together. The motor(s) will then begin calibrating.
4. Insert an LP-E6 battery in the controller, then press the **REC/PWR (B)** button to turn on the controller.

PAIR CONTROLLER AND RECEIVER

If the controller has not been paired to a receiver, you can use one of the following methods to pair both devices:

Wireless Pairing

Press the MENU button on the controller, then navigate to **WIRELESS>FIND RECV** to scan for active receivers and automatically pair. The LED on the controller will turn green once paired.

Wired Pairing

Connect a 5-pin connector from the controller's wired-mode input **(H)** to the IN-1 input on the receiver. The controller and receiver will remain paired even after disconnecting the 5-pin connector. The LEDs on the controller and receiver will turn blue once paired.

CAMERA RUN/STOP

1. Connect a camera cable from the CAM/Control port on the receiver to the camera, then navigate to **MENU>CAMERA** on the CTRL.3 to indicate which camera you have connected.
2. Press the **REC** button on the controller **(C)** to start/stop recording on the camera.

NOTE: If using a RED camera, the camera serial communication setting must be set to RCP (Redlink Command Protocol) for the unit to operate.

CONTROLLER MENU OPERATION

Press the **MENU** button, then use the ▲, ▼ and **SET** button to navigate through the different menu options.

- **POWER OFF -** Power OFF the controller
- **LENS -** Configure lens mapping function
- **MOTORS -** Configure attached motor(s)
- **INPUTS -** Configure controller's knobs/slider
- **WIRELESS -** Configure wireless settings
- **CAMERA -** Select the make of the camera
- **LIMIT -** Configure knob's range
- **SCREEN -** Change display settings
- **BUTTONS -** Assign functions to the buttons
- **RX CONFIG -** Configure auxiliary controllers, such as a thumbwheel or zoom rocker
- **ADV -** Contains device info menu, licenses, and advanced functions for debugging

Controller Status LED

The controller status LED indicates when the system is ON and provides the system's current status during operation.

- **OFF -** Unit is powered off
- **YELLOW -** No wireless connection
- **RED -** Camera is recording
- **ORANGE -** PC/Bootloader mode
- **WHITE -** Checking RF module status
- **GREEN -** Wireless is synched
- **BLUE -** Wired-mode connection

LENS MAPPING

The **LENSMAP** menu lets you create your own lens map(s) according to lens manufacturer and lens type. Once a lens map has been created, you can **SELECT** it for use with the controller, **EDIT** the lens map's name and/or parameters, modify the lens map's **BEHAVIOR**, or **DELETE** the map. Use the following steps to create a lens map.

1. Enter the CTRL.3 menu, then navigate to **LENS**>**LENSMAP**>**CREATE**.
2. Select the lens brand, then create a name to identify the lens map.
3. Select whether the lens is a prime or zoom lens. If it's a prime lens, enter the lens' fixed focal length (e.g. 35mm, 85mm). For zoom lenses, enter the focal length range (e.g. 24-70mm, 70-200mm).

4. For prime lenses you will be prompted to create an Iris table. For zoom lenses, you will be prompted to create a focal length table, then an iris table after. Make sure a motor is attached to the corresponding ring, and both the motor and controller are set to the same class (Focus, Iris, Zoom).
5. Move the controller knob so that the motor adjusts the lens ring to the smallest mark.
6. Using the Up and Down buttons on the controller, enter the corresponding mark, then select OK. Repeat for all marks until they have all been mapped to the controller.
7. Press the **MENU** button, then select **TABLE DONE**. You will then be prompted to create an iris or focus distance table, depending on the type of lens. Select **YES**.
8. Repeat steps 5 through 7 for each motor you want to map
9. Attach a lens ring to the controller's knob.
10. Navigate to **LENS**>**LENSRING**>**SELECT** and select the corresponding lens ring size.

LENS DATA OVERLAY

SmallHD monitors include a Lens Data Overlay feature that displays your CTRL.3 lens map on the monitor. Below are steps to enable the Lens Data Overlay feature.

1. Update your CTRL.3 controller and SmallHD monitor to the latest firmware.
2. From the controller, navigate to **LENS**>**LENSMAP** and select one of the configured lens maps.
3. Press the MENU button to return to the main menu, then navigate to **ADV**>**SMALLHD**.
4. Select **YES** to activate SmallHD Comms.
5. Connect a cable from the controller's wired mode connector to the monitor's USB port.
6. Tap the screen on the SmallHD monitor and navigate to **ADD NEW TOOL**>**ADD ONS**.
7. Select **TERADEK RT**.
8. The Lens Map Overlay will appear on the right and move according to controller's knob movements.

FIZ LIMITS

CTRL.3 limit buttons allow you to set a limit range for either the Focus, Iris, or Zoom controls. Setting limits restricts the motor from adjusting the lens past a set limit.

1. Move the input to the high or low end of the limit you want to set.
2. Press and hold down the limit button for the corresponding axis **(H).**
3. While continuing to hold down the limit button, move the input to the other end of the limit you want to set, then release. The limit range is now set.
4. To remove the limit range, press the limit button.
5. To completely lock the motor, press and release the limit button without moving the corresponding input.

Teradek regularly releases new firmware versions to improve performance, add new features, or to fix vulnerabilities. Visit https://www.teradek.com to update your device with the latest firmware.

NEED MORE HELP?

SUPPORT: http://support.teradek.com → Contains tips, information and all the latest firmware & software updates.
TERADEK SUPPORT STAFF: support@teradek.com or call 888-941-2111 ext.2 (Mon-Fri 6am to 6pm PST)

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