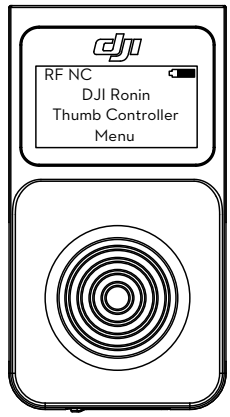
The Main Menu contains six tabs: Mode, Function, Gimbal Setting, Device Setting, Default Setting, and About.
Press up/down on the pressure-sensitive stick to select an item. Press right to view and select options and press left to return to the Main Menu.



Mode

ST Off
SmoothTrack is off. The Thumb Controller is free to control the pan axis. The gimbal will stop and hold the last position determined by the pan axis control stick, without applying SmoothTrack.

ST On
SmoothTrack is on. The Thumb Controller is free to control the pan axis. The gimbal will stop and hold the last position determined by the pan axis control stick, while applying SmoothTrack.

Auto Center
SmoothTrack is on. The gimbal will apply SmoothTrack when reorienting and resetting the pan angle to the forward-facing direction after the pan axis control stick is released.

Function

The Function tab allows you to select the SmoothTrack speed.
There are 3 possible speeds: Fast, Normal, and Slow. The value of each speed can be adjusted in the DJI Assistant app or the PC/MAC Assistant.

Gimbal Settings

Channel

Allows you to assign control of the pan, tilt, or roll motion of the gimbal to the up/down input on the pressure-sensitive stick.
Allows you to assign control of the pan, tilt, or roll motion of the gimbal to the left/right input on the pressure-sensitive stick.
Selecting 'None' means that the corresponding input axis from the pressure-sensitive stick will not affect the movement of the gimbal.

⚠
- By default, the up/down input on the pressure-sensitive stick controls the tilt axis movement of the gimbal and the left/right input on the pressure-sensitive stick controls the pan axis movement of the gimbal.
- If you reassign the control input of either axis, only the most recent assignment will be valid.

Direction

By default, the "Normal" direction orientation scheme indicates that the up movement of the stick moves the tilt axis up and the down movement of the stick moves the tilt axis down, while the left movement of the stick rotates the pan axis to the left and the right movement of the stick rotates the pan axis to the right.

When the “Reverse” orientation is selected, the up/down and left/right controls are switched.

Calibration

“Cali System” should be used if there is perceptible drift on any axis. The calibration procedure should take approximately 90 seconds to complete.

Selecting “Auto Tune” will automatically adjustment each motor’s stiffness settings to achieve an optimal balance. This process should take approximately 20 seconds to complete.

The gimbal cannot be controlled by the Thumb Controller or the remote controller during calibration. Do not touch or move the gimbal during either process.

Device Settings

Sensitivity

There are two sensitivity settings for the Thumb Controller: Soft/Hard.

Sleep

If the Thumb Controller has been idle for longer than the specified amount of time, the OLED display will be turned off.

Power Off

If the Thumb Controller has been idle for longer than the specified amount of time, it will be turned off.

Default Settings

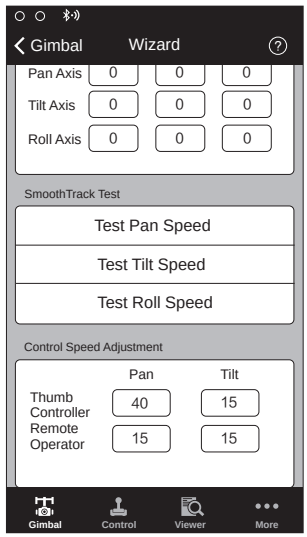
Restores all settings to the factory defaults.

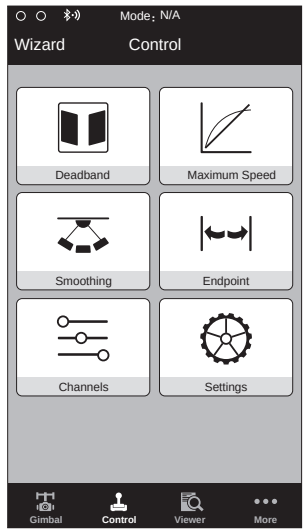
About

Displays the firmware version that is currently installed on the Thumb Controller.

DJI Assistant App Tuning

You can adjust various parameters in the DJI Assistant app.
Turn on the Thumb Controller and the gimbal, then launch the DJI Assistant app. You can adjust the control speeds in the Wizard menu.
To meet your specific requirements, you can also access advanced functions through the Assistant app. In the Control Menu, you can adjust the Deadband, Maximum Speed, Smoothing, and Controller Priority.





⚠ Controller Priority: If both the Thumb Controller and a remote controller simultaneously send control signals to the gimbal, the input from the selected controller will take priority will control the device.
Refer to the Ronin/Ronin-M User Manual for more details.

DJI PC/MAC Assistant Tuning

The DJI PC/MAC Assistant allows you to tune the Thumb Controller and update its firmware.
The tuning procedures offered through the DJI Assistant App are the same as those offered through the DJI PC/MAC Assistant. There is no need to adjust the settings in both.
The DJI Assistant app and the PC/MAC Assistant program cannot be connected to the Thumb Controller at the same time. If you are running the Assistant app on your mobile device, be sure to disconnect the Micro-USB cable before using the Assistant on a PC/MAC.

Settings

In the Control Menu, you can adjust the Deadband, Maximum Speed, Smoothing, and Controller Priority.

Updating the Thumb Controller and the Receiver

You can find the latest firmware version information on this page and update the firmware by following the steps below:

1. Use the Micro-USB cable to connect the Thumb Controller to your computer, then wait until the indicator in the Assistant blinks blue.
2. Click “Update.”
3. Wait for the download to finish.
4. Click “Update” again and then click “Confirm.”
5. After the update is complete, turn the Thumb Controller off and then on again.
6. Repeat this process with the Ronin-M or the Ronin External Receiver, depending on your model.

⚠
- Ensure that your computer is connected to the internet
- Close all antivirus programs and network firewalls
- Ensure that the device is turned on before beginning the update process
- Do not disconnect the USB cable until the update is complete

If the Thumb Controller fails to update, follow the steps below:

1. Press and hold the override button.
2. Use the USB cable to connect the Thumb Controller to the computer.
3. Now, release the override button and wait for the connection to be established.
4. Click the “Update” button after the Thumb Controller has been successfully connected to the Assistant. The Thumb Controller will be operate normally after the update is complete.

Specifications

Type	RONIN TC
Support Device	Ronin, Ronin-M
Operating Frequency	2.415GHz-2.454GHz
Working Current	<100mA @ 3.3V
Communication Distance	60m
Battery Life	18h
Standby Life	20h
Operating Temperature	-20°C~50°C
Battery Type	LiPo
Battery Voltage	3.7V
Battery Capacity	1150mAh
Charge Time	2h
Weight	50g
Size	2.7 × 1.4 × 0.9 in. (68 × 36 × 23 mm)
Mounting Bracket Diameter	1.0 in. or 1.2 in. (25 mm or 30 mm)
Display	White OLED, 0.96 inch, Dots: 128 × 64

The content is subject to change.

Download the latest version from
http://www.dji.com/product/

If you have any questions about this document, please contact DJI by sending a message to **DocSupport@dji.com**.

Due to the used enclosure material, the product shall only be connected to a USB Interface of version 2.0 or higher. The connection to so called power USB is prohibited.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

CE 0700 

Hereby, SZ DJI TECHNOLOGY CO., LTD declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Power is so low that no RF exposure calculation is needed.

FCC statements:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada RSS exemptes de licence standard(s).

Son fonctionnement est soumis aux deux conditions suivantes:
(1) cet appareil ne peut pas provoquer d'interférences, et
(2) c et appar eil doi t ac cepter t oute i nterférence, y c ompris c elles pouv ant causer un mauvais fonctionnement de l'appareil.

RONIN RX could be powered DC 12V-16V (powered by RONIN through
CAN port with a 4-Pin Cable)or DC 5V (powered by PC through USB port)
RONIN is powered by intelligent battery, the battery capacity is 3400mAh,
voltage is 14.8VDC, charge the intelligent battery only with DJI approved chargers with
the battery moving off from ronion.