RONIN-MX

Quick Start Guide

Ronin-MX Diagram

Remote Controller

1. Top Handle Bar
2. Side Handle
3. Gimbal Connector
4. CAN2 Bus Port
5. Pan Motor
6. DJI Intelligent Battery
7. Safety Lock
8. Pan Adjustment Slider
9. Intelligent Battery Power Distributor Mounting Plate
10. D-BUS Receiver Port
11. USB Port & CAN1 Bus Port
12. Shrd Button
13. Gimbal LED Indicator
14. Camera Upper Mounting Plate
15. Roll Motor
16. Tilt Motor
17. Pan and All Adjustment
18. Tilt Vertical Adjustment
19. Roll Adjustment
20. INI Port
21. P-TAP Accessory Power Port
22. USB Accessory Power Port
23. P-TAP Port (rear side)
24. DJI Lightbridge Port (rear side)
25. GCU Port (rear side)

1. Antenna
2. Carrying Handle
3. Left Dial (reserved)
4. 3-Position Switch (MODE)
5. 3-Position Switch (FUNCTION)
6. Right Stick
7. Left Stick
8. Neck Strap Attachment
9. Power Switch
10. Power Indicator
11. Battery Level Indicators
12. Battery Charging & RC Assistant Port (Micro USB port)
13. Reserved Port
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1 Start
A. Download and install the DJI™ Assistant app. Search “DJI Assistant” on the App Store and then follow the instructions for iOS installation. Search “DJI Ronin-M” on the Google Play and then follow the instructions for Android installation.
B. Before you start using your Ronin-MX, be sure to charge the DJI Intelligent Battery first. Pressing the Intelligent Battery power button once will display the current battery level. Press and hold for 1 second to turn on/off.
C. On the Remote Controller, slide the power switch to the right to power on. The battery level indicators display the current battery status. If the low voltage alert sounds, recharge the battery via the micro USB port.

2 Assembling the Ronin-MX
A. Deploy the tuning stand as shown. Tighten the knobs. Press the buttons on the outside of the upper support arms and pull them upward, away from the stand. Then press the buttons on the outside of the upper support arms and pull them upward, away from the stand.
B. Assembling the handle bar. Attach the bar to both sides of the top handle and tighten the grip screws. Attach the grip to the bar and lock them in the position.
C. Attach the Ronin-MX to the handle. Slide the gimbal horizontally into the handle bar. Tighten the knob when you hear a “click”, which indicates that the safety lock has engaged.
D. To mount the DJI Intelligent Battery on the Ronin-MX, loosen the thumb screws on either side of the battery and slide it directly into the gimbal. Tighten the thumb screws.

3 Mounting the Camera on the Mounting Plate
A. Attach the camera to the mounting plate and tighten the screws.
B. Attach the lens support to the mounting plate. Apply upward pressure to the lens support and tighten the screw.
C. Mount the Camera Upper Mounting Plate to the top of the camera through the hot shoe and then tighten the screws.
D. Balancing Depth for the Tilt Axis
Open the side clamp and loosen the lock-knob on the crossbar to slide the camera forwards or backwards until the Tilt Axis remains level and then tighten the side lock and lock-knob.

4 Mounting the Camera on the Ronin-MX
A. Slide the mounting plate into the receiver until the safety lock engages.
B. Adjust the vertical position of the crossbar to meet the Camera Upper Mounting Plate. When the camera achieves a rough balance, tighten the camera base side clamp and the lock-knobs.

5 Balancing
A. Balancing the Vertical Tilt
Rotates the Tilt Axis so that the camera lens is pointing upward and loosen the two vertical adjustment tabs and the lock-knobs on the top crossbar. Gently slide the camera mount crossbar forwards or backwards until the camera points upwards when released. Latch the tab back into its closed position and tighten the lock-knobs.
B. Balancing the Roll Axis
Loosen the three lock-knobs to slide the camera left or right until the Roll Axis remains level, and then tighten the three lock-knobs.
C. Balancing Depth for the Tilt Axis
Open the side clamp and loosen the lock-knob on the crossbar to slide the camera forwards or backwards until the Tilt Axis remains level and then tighten the side clamp and lock-knob.
D. Balancing the Pan Axis
Open the clamp on the Pan Axis and turn the knob to slide the assembly. Tighten the clamp after balancing is completed.

6 Pairing with the DJI Assistant App
A. Power on the Ronin-MX. Switch on your mobile device’s Bluetooth and launch the DJI Assistant app.
B. Connect your mobile device to the Ronin-MX within the DJI Assistant app.
C. Check balance on the Viewer page. If a particular motor axis indicates a power greater than 10, rebalance the camera.

7 Using the Ronin-MX on the Ground
A. DJI Assistant App Tuning
i. With the Ronin-MX on the tuning stand and a properly balanced camera, tap Camera Type and select DSLR Camera or RED Camera.
ii. Switch on/off of Vibration Absorber and SmoothTrack, and adjust the speed as needed.
iii. You can also select the DJI Assistant software for PC/MAC to activate and configure the Ronin-MX. For more information, refer to the User Manual.
B. Connecting the Remote Controller to the Ronin-MX
i. Turn on the Ronin-MX. Press the needed button of the Ronin-MX once with a pointed object.
ii. Turn on the Remote Controller. If the LED on the gimbal turns solid green, the Remote Controller and the Ronin-MX have been successfully bound.

8 Using with the Matrice 600
Ensure the Ronin-MX has been activated, the camera is mounted securely and the balance is adjusted properly. Ensure the upper cover and the lower cover of the Matrice 600’s center frame and the expansion mounting kit have been removed.
A. Mounting the Ronin-MX onto the Matrice 600
i. Connect one end of the provided CAN cable to the CAN1 port on the Matrice 600’s main controller, and pull the other end through the outlet of the center frame. Then re-mount the Matrice 600’s upper and lower covers.
ii. Adjust the Ronin-MX. Vibration absorption mounting plate, then tighten the screws on the connector.
iii. Mount the vibration absorber onto the bottom of the Matrice 600 with the lock-knob facing forward, then tighten the 12 vibration absorption mounting screws provided.
B. Mounting the Ronin-MX to the Matrice 600
i. With the Ronin-MX on the tuning stand and a properly balanced camera, tap Camera Type and select DSLR Camera or RED Camera.
ii. Switch on/off of Vibration Absorber and SmoothTrack, and adjust the speed as needed.
iii. You can also select the DJI Assistant software for PC/MAC to activate and configure the Ronin-MX. For more information, refer to the User Manual.
iv. Be sure the Ronin-MX is mounted properly and firmly, and all the connections are correct and will not obstruct the Ronin-MX’s movements.
B. DJI GO App Tuning
i. Set the App Output Mode in the DJI GO app: Tap HD, disable the EXY Port, and then adjust the Bandwidth Allocation to ensure that the “HOME” percentage is more than 0%. Set the App Out Mode to HDR.
ii. Tap HD → RT - Camera Type to configure the gimbal.
C. Use the Matrice 600’s Remote Controller to control the Ronin-MX.