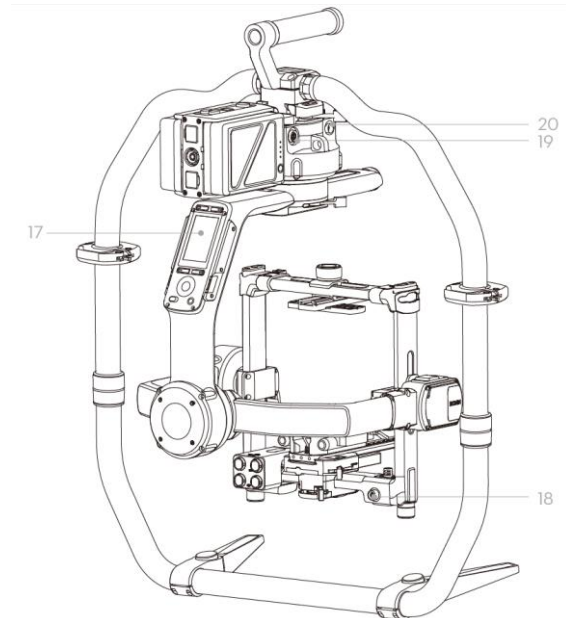
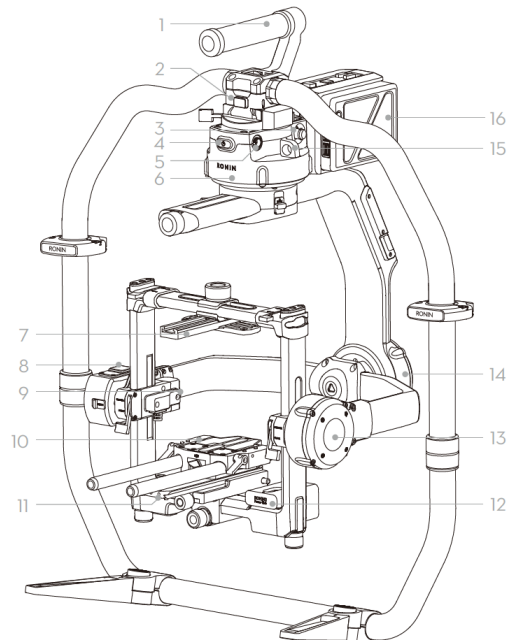
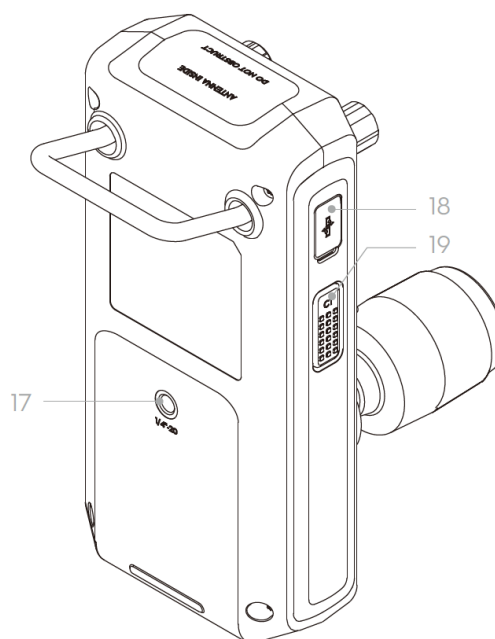
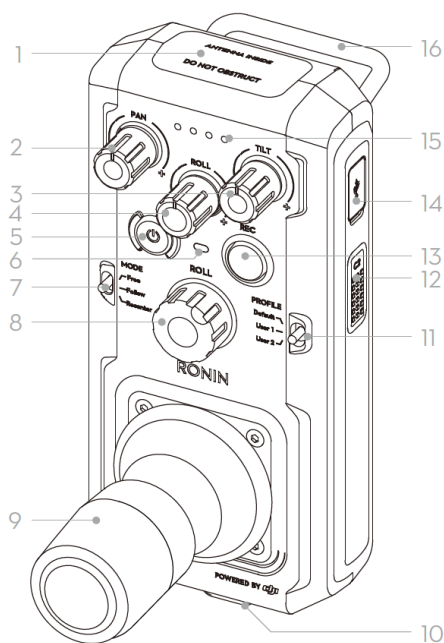


# RONIN 2 Diagram



1. Grip
2. Gimbal Connector
3. HD-SDI Output
4. Power Button
5. 14.4V Accessory Power Port
6. Pan Motor
7. Camera Upper Mounting Plate
8. GPS
9. HD-SDI Input
10. Focus Mounting Plate
11. Camera Dovetail Plate
12. Power Hub
13. Tilt Motor
14. Roll Motor
15. Safety Hole
16. Battery Compartment/Intelligent Battery
17. Built-in Touch Panel
18. DC-OUT Port
19. DC-IN Port
20. 14.4V Accessory Power Port

# Remote Controller



1. Built-in Antenna
2. Pan Axis Speed Control Knob
3. Tilt Axis Speed Control Knob
4. Roll Axis Speed Control Knob
5. Power Button
6. Status LED
7. Mode Switch
8. Roll Joystick
9. Tilt/Pan Joystick
10. Neck Strap Attachment
11. Profile Switch
12. C2 Button
13. Record Button
14. USB Type-C Port
15. Battery Level Indicators
16. Handle
17. Accessory Mounting Port
18. CAN Port
19. C1 Button

# Download the DJI Assistant App and Watch Tutorial

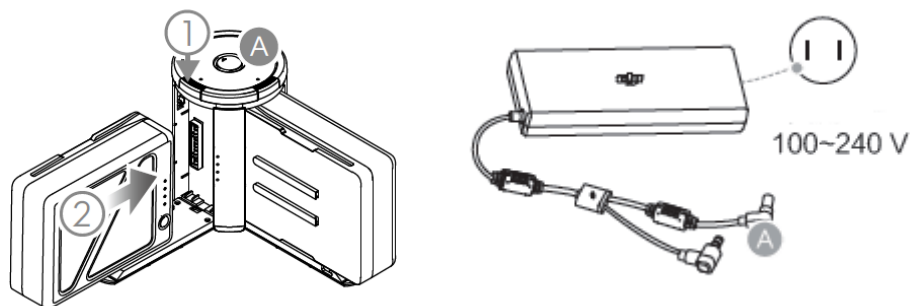
Search “DJI Assistant” on the App Store or search “DJI Ronin” on the Google Play and then follow the instructions for installation. Watch the tutorial on the Official DJI website.

<http://www.dji.com/cn/ronin-2>

## Charge the Batteries

Use the provided Charging Hub to fully charge the RONIN2 Intelligent Battery for the first time to activate.

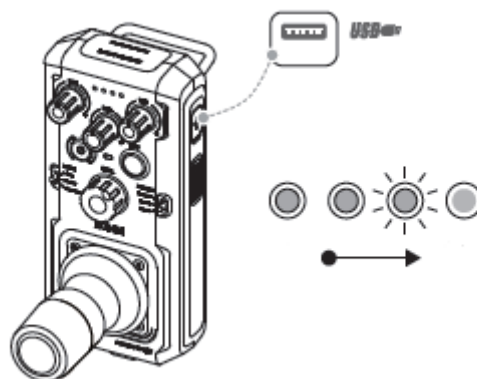
- ① Press the release button and open the corresponding charging port cover.
- ② Insert the Intelligent Battery into the charging port to begin charging.



Charging Time: 1.5 hours

Press the Battery Level button to check the battery Level.

Charge the Remote Controller using a USB charger via the USB Type-C port.



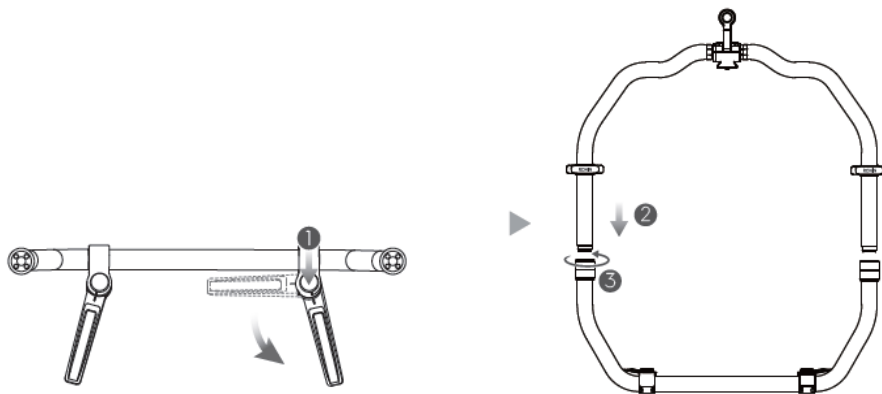
Press once on the Power button to check the battery level. Press once, again and hold to turn on/off.



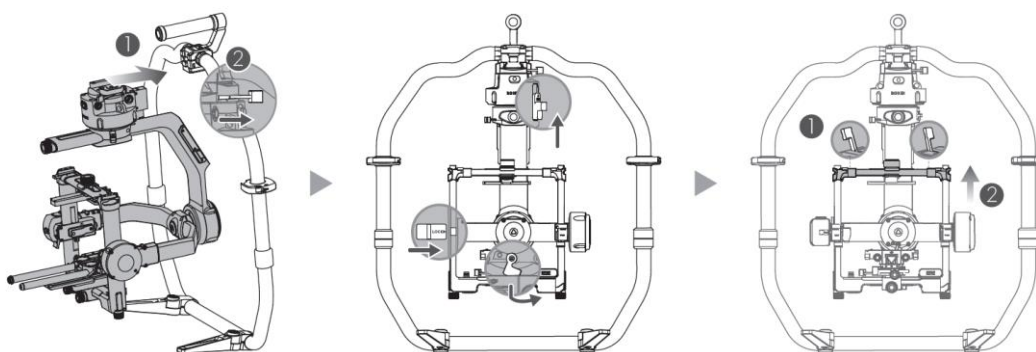
- Ensure each battery pair is charged and discharged simultaneously to prolong their service life and for a better experience.
- When charging is complete, the battery level indicators will turn off and the Charging Hub's LED will show green and it will sound a signal.
- Make sure to press the release button on the Charging Hub's top when removing the battery.

## Assembling the RONIN2

1. Press the button on the lower part of grip and extend. Attach the upper and lower part of the grip and tighten.



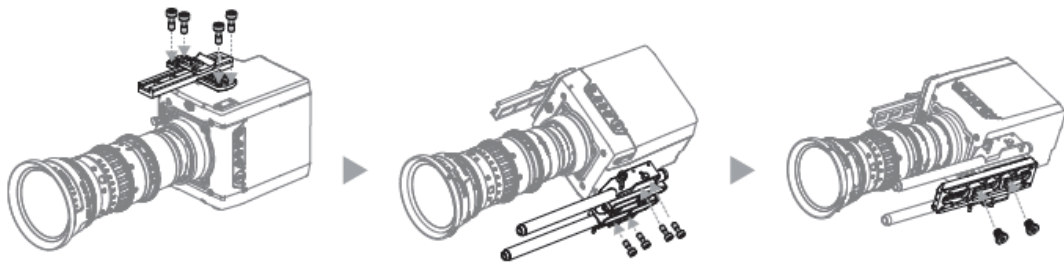
2. Attach the gimbal to the grip until the safety lock has engaged, then lock the lever.
3. Before mounting the camera, ensure the pan, tilt and roll axis lock are in the lock positions.
4. Remove the upper crossbar.



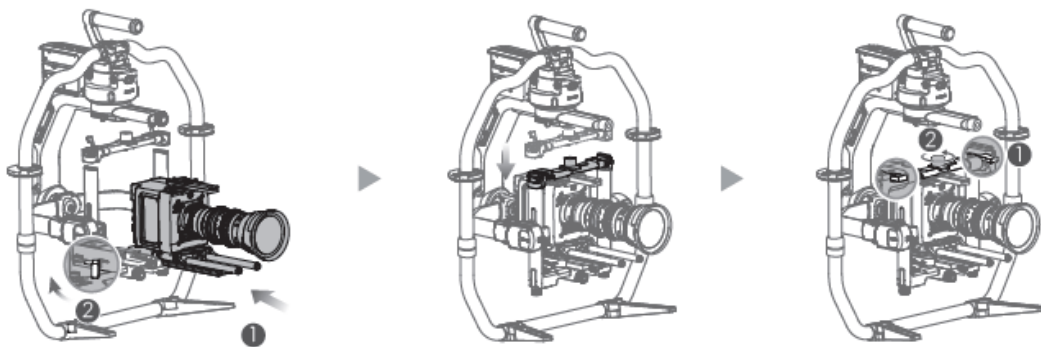
## Mounting the Camera

1. Attach the camera upper mounting plate to the camera.
2. Attach the Focus mounting plate to the camera.

3. Attach the camera dovetail plate.



4. Slide the camera to the mounting plate until the safety lock engaged, and lock the lever.
5. Attach the upper crossbar and tighten it with the camera.



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 Before balancing the camera, connect the SDI cable and the camera power cable, and install the Focus.

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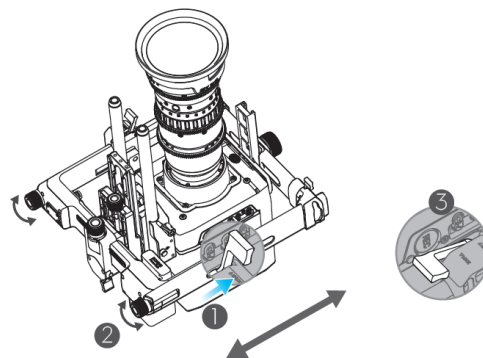
## Balancing

### Balancing the Vertical Tilt

Unlock the tilt axis. Rotate the tilt axis so that the camera lens is pointing upward.

Toggle the side levers to the unlock position, adjust the camera's position by turning the adjusting knob until the camera points upwards when released.

Tighten the levers.

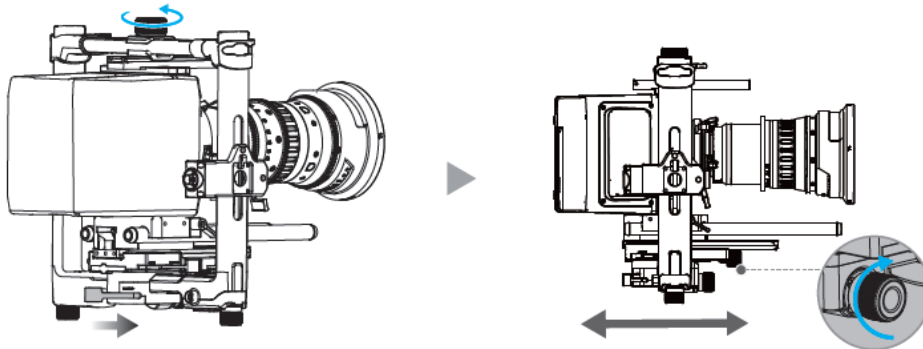


### Balancing Depth for the Tilt Axis

Rotate the tilt axis so that the camera lens is pointing forward.

Toggle the lever to the unlock position, then loosen the top securing knob. Adjust the camera's position by turning the adjusting knob until the camera stay still when rotate the tilt axis to 45 degree up or down. Toggle the lever to the lock position and tighten the securing knob.

Lock the Tilt Axis.

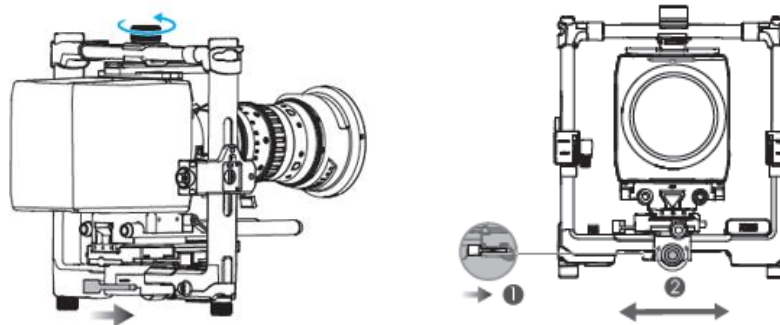


### Balancing the Roll Axis

Unlock the roll axis.

Toggle the lever to the unlock position, then loosen the top securing knob. Adjust the camera's position by turning the adjusting knob until the camera stay still when rotate the roll axis to 45 degree left or right.

Lock the roll axis.

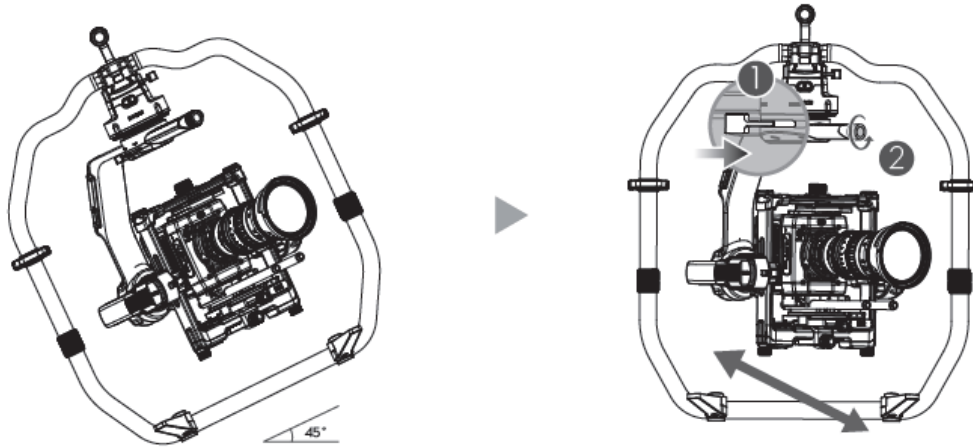


### Balancing the Pan Axis

Unlock the pan axis. Lift up one side of the grip.

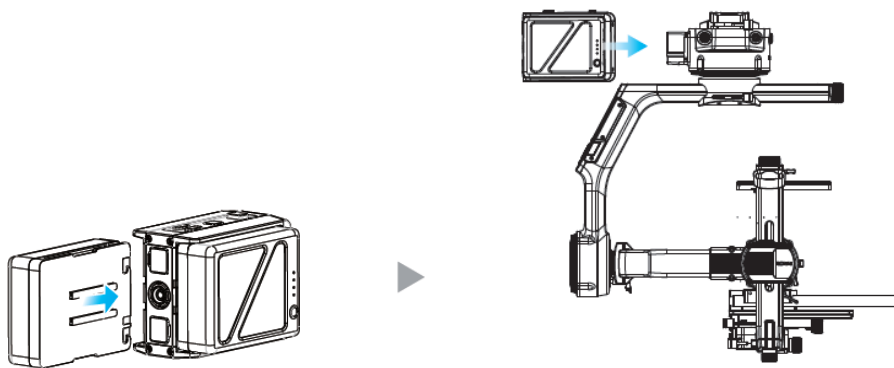
Toggle the lever to the unlock position, adjust the camera's position by turning the knob until the camera stay still when rotate the pan axis to 45 degree while lift up one side of the grip.

Tighten the lever.



## Mounting the Intelligent Battery

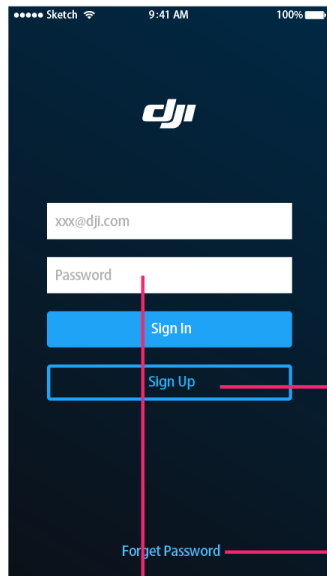
Insert the Intelligent Battery to the battery compartment until the battery safety lock engaged.  
Attach the battery compartment to the gimbal until the safety lock engaged.



Unlock the pan, tilt and roll axis before powering on the RONIN 2.

## Activation

1. Press and hold the power button on the gimbal or battery compartment to turn on the Ronin 2.
2. Switch on your mobile device's Bluetooth and Launch the DJI Assistant app. Follow the instructions to activate the Ronin 2 for the first time, this requires an internet connection.

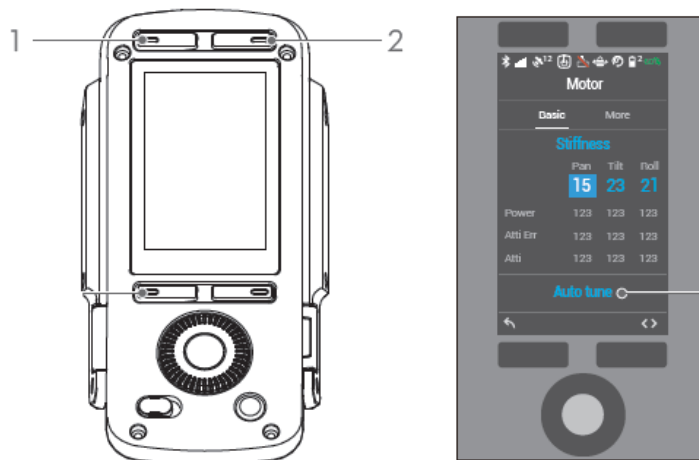


## Built-in Panel Settings

Press button 1 to select Mount mode.

Press button 2 to select Follow mode.

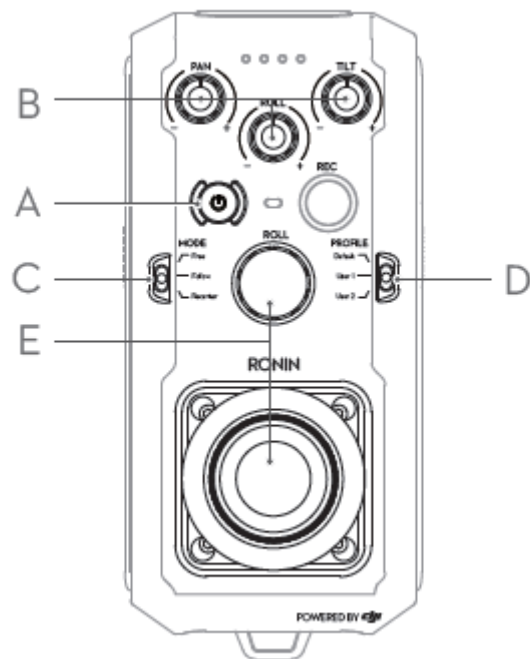
Enter the Motor setting page and select Auto Tune.



## Remote Controller Operation

- A. Press once, then press and hold the power button to turn on the remote controller.
- B. Setting the joystick speed parameters.
- C. Toggle the Mode switch to select Follow mode.
- D. Toggle the Profile switch to select preset parameters.
- E. Tuning the Roll Joystick to control roll axis' movement. Push the Pan/Tilt Joystick up or down to control tilt axis' movement.

Push the Pan/Tilt Joystick left or right to control pan axis' movement.



# Specifications

| General            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gimbal             | RONIN 2 (Model: R2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Remote Controller  | Ronin TX1 (Model: R2-TX1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Built-In Functions | <ul style="list-style-type: none"><li>● Operation Modes<ul style="list-style-type: none"><li>Underslung Mode</li><li>Upright Mode</li><li>Briefcase Mode</li><li>Handheld, Car Mount, Aerial, Tripod, &amp; Steadicam Mode</li></ul></li><li>● Built-in, independent IMU module</li><li>● DJI Advanced 32-Bit ARM Processor</li><li>● DJI Specialized Gimbal Drive Motors with Encoders</li><li>● Dual Battery System</li><li>● Bluetooth Module</li><li>● D-Bus Receiver Supported</li><li>● 2.4 GHz/5.8 GHz Transceiver*</li><li>● Temperature Sensors</li><li>● Built-in Touch Panel</li><li>● Built-in GPS+GLONASS</li><li>● USB Type-C Connection</li><li>● Power and Video Signal through Slip Ring</li></ul> |

| Peripheral                              |                                                                                                                                                                                       |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Tray Dimensions                  | Maximum depth from the center of gravity on camera base plate: 245 mm<br>Maximum height measured from top of the camera base plate: 165 mm<br>Maximum width: 180 mm                   |
| Accessory Power Connections             | 14.4 V x 4 Camera Cage (Combined 8 A), 12.6V x 2 Pan Motor (Combined 4 A), 12.6 V x1 P-Tap (8 A)                                                                                      |
| GCU Input Power                         | Intelligent Battery: 4280 mAh-22.8 V                                                                                                                                                  |
| Connections                             | 2.4 GHz/5.8 GHz Remote Control; Bluetooth 4.0; USB Type-C                                                                                                                             |
| PC/MAC Assistant Requirements           | Windows 7 or above; Mac OS X 10.11 or above                                                                                                                                           |
| Mobile Assistant Software Requirements  | iOS 9 or above; Android 4.4 or above                                                                                                                                                  |
| Mechanical & Electrical Characteristics |                                                                                                                                                                                       |
| Working Current                         | <ul style="list-style-type: none"> <li>● Static current: 300 mA (@22.8 V)</li> <li>● Dynamic current: 500 mA (@22.8 V)</li> <li>● Locked motor current: Max 15 A (@22.8 V)</li> </ul> |
| Operating Frequency                     | 2.4-2.4835 GHz; 5.725-5.850 GHz                                                                                                                                                       |
| Operating Temperature                   | -4°F ~ 122°F (-20°C ~ 50°C)                                                                                                                                                           |
| Weight                                  | Including handle bar: 12 lb (5.5 kg)<br>Excluding handle bar: 9 lb (4.2 kg)                                                                                                           |
| Dimensions                              | Excluding handle bar : 350 mm (W) x 416 mm (D)x 530 mm (H)<br>Including handle bar : 630 mm (W) x 416 mm (D) x 720 mm (H)                                                             |
| Working Performance                     |                                                                                                                                                                                       |
| Load Weight (Reference Value)           | 30 lbs (13.6 kg)                                                                                                                                                                      |
| Angular Vibration Range                 | ± 0.02°                                                                                                                                                                               |
| Maximum Controlled Rotation Speed       | Pan axis: 400°/s<br>Tilt axis: 360°/s<br>Roll axis: 360°/s                                                                                                                            |
| Mechanical Endpoint Range               | Pan axis control: 360° continuous rotation<br>Tilt axis control: ± 135 °<br>Roll axis control: ± 220°                                                                                 |
| Controlled Rotation Range               | Pan axis control: 360° continuous rotation<br>Tilt axis control: +45° to -135°<br>Roll axis control: ± 45°                                                                            |

\*To comply with local regulations, the operation frequency of 5.8GHz band is not available in some countries, please refer to local regulations.

### **FCC/ISED Compliance Notice**

This device complies with Part 15 of the FCC/ISED 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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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/ISED 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.

SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the RONIN 2 TX1 device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the RONIN 2 TX1 device while operating can be well below the maximum value.

Before a new model RONIN 2 TX1 device is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED. Tests for each RONIN 2 TX1 device are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC/ISED.

For body worn operation, this model RONIN 2 TX1 device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.

Non-compliance with the above restrictions may result in violation of RF exposure guidelines.

### **RF Exposure Information**

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. For RONIN 2 In order to avoid the possibility of exceeding the FCC/ISED radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

### **ISED RSS Warning**

This device complies with ISED licence 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. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.