X-STAR
&
X-STAR Premium
Quick Guide

With XI-5S Gimbal
AIRCRAFT FRONT VIEW

1. Propeller
2. Motor
3. Front LED Indicator Light
4. Micro-USB Port
5. 3-axis Camera Gimbal
6. Camera
7. Front Sticker
AIRCRAFT REAR VIEW

8. Rear LED Indicator Light
9. Aircraft Battery
10. Starpoint™ Positioning Module
11. Landing Gear
12. Compass
13. Remote Controller Binding Button
1. Antenna
2. Mobile Device Holder
3. Flight Information Panel
4. Left Command Stick
5. Right Command Stick
6. Strap Hole
7. Motor Starter
8. Take-off/Landing Button
9. Power Button
10. Go Home Button
11. Pause Button
12. Power Port
13. Gimbal Pitch Dial
14. Flight Mode Switch
15. Playback Button
16. Camera Settings Dial
17. Support Stand
18. Shutter Button
19. Record Button
20. CAN-Bus Port
21. Micro-USB Port
22. USB Port
INSTALLING THE STARLINK APP

• Search for ‘Starlink’ on the App Store or Google Play and install the app for X-Star/X-Star Premium on your mobile device.
• Launch the app on your mobile device.
• Make sure all the devices are fully charged before use.

IMPORTANT: Please read all provided instructions carefully before use. Pay extra attention to the safety warnings and precautions. Use this product as instructed to prevent product damage or personal injury. Failure to do so will void the product’s warranty.
PREPARING THE AIRCRAFT

• Remove the gimbal holder from the gimbal and the warning cards from the motors before powering on.
• Match the two propellers with red nuts to the corresponding motors with red paint, and the other two with silver/black nuts to the unpainted motors.
• Fasten the propellers in the direction indicated by the Lock Icon 🗝.

NOTE: It is recommended to wear protective gloves when assembling and removing the propellers.
PREPARING THE REMOTE CONTROLLER

• Press and hold the Power Button for 2 seconds to power up the remote controller.
• Make sure the Flight Mode Switch on the left side of the remote controller is in the GPS position.
• Clamp the mobile device into the mobile device holder and adjust the holder angle for an optimum view.

IMPORTANT: For your safety, please turn on the remote controller before turning on the aircraft.
POWERING UP

- Press and hold the aircraft’s Power Button for 3 seconds to turn on the aircraft. The battery level indicator lights will illuminate and indicate the current battery level.

- Solid green light
- Flashing green light
- No light

- 91%~100%
- 76%~90%
- 66%~75%
- 51%~65%
- 41%~50%
- 26%~40%
- 16%~25%
- 1%~15%
- 0%
PREPARING THE MOBILE DEVICE

• Connect your mobile device to the aircraft.

X-Star
Turn on the WiFi connection on your mobile device, select X-Star_XXXXXX from the WiFi list, and enter the default password 99999999.

X-Star Premium
Connect your mobile device to the remote controller through a USB cable. The USB port is located on the back of the remote controller.

• When connection has been established between your mobile device and the aircraft, you will see the connection status bar as Connected on Starlink’s home page.

NOTE: The WiFi network name (SSID) is labelled on the back side of the remote controller.
FAMILIARIZING WITH THE LED INDICATIONS

• Take a few minutes to familiarize yourself with the LED indications.
• The LED indicator lights will light up when the aircraft is turned on.

Front LEDs:
- The front LED indicators will illuminate solid red light during flight to help you identify the direction of the aircraft’s nose.

Rear LEDs:
- The aircraft is warming up with at least 6 satellites available.
- The aircraft is warming up with less than 6 satellites available.
- Either GPS mode or the Starpoint Positioning System is functioning.
- Neither GPS mode nor the Starpoint Positioning System is functioning.
- The remote controller signal is lost.
- The compass is experiencing interference.
- Low Battery Warning (Battery level is less than 25%).
- Critical Low Battery Warning (Battery level is less than 12.5%).

Front & Rear LEDs:
- Slow flash with one beep when hardware problems are detected.
CALIBRATING THE COMPASS

Make sure to calibrate the compass every time you fly in a new location.

1. Begin calibration with your app: Settings (şık) > Flight Control Settings (şık) > Compass Calibration, and follow the on-screen instructions that help you monitor the calibration status. When the calibration process has been initiated, the 4 LEDs on the aircraft will flash yellow light.

2. Hold the aircraft horizontally and rotate it until the 4 LEDs on the aircraft change into flashing green light, indicating that this step is completed successfully.

3. Hold the aircraft vertically and rotate it again with its nose facing downwards. When calibration succeeds, the 4 LEDs on the aircraft will illuminate solid green light for 5 seconds.

NOTE: • You can also start the calibration process with the remote controller by pressing (şık) and (şık) simultaneously for 3 seconds. Then continue to perform steps 2 and 3 to complete the procedure.
• If the calibration is unsuccessful, the 4 LEDs on the aircraft will illuminate solid yellow light. In this case, repeat the above steps to try again.
MOTOR START-UP AND TAKE-OFF

- Start the motors in one of the following ways:

  Motor Starter:  
  Hold for 2s

  Both Command Sticks:  
  Hold toe-in or toe-out for 2s

- When the motors start spinning, use one of the following methods to take off the aircraft:

  Take off/Landing Button:  
  Hold for 2s

  Left Command Stick (Mode 2):  
  Push upward
UNDERSTANDING COMMAND STICK CONTROLS

Ascend/Decend
- Upward: Ascend
- Downward: Descend

Rotate Left/Right
- Left Side View: Rotate Left, Nose Rotates Left
- Left Side View: Rotate Right, Nose Rotates Right

Forward/Backward
- Left Side View: Forward, Nose Rear
- Rear View: Move Left, Left

Move Left/Right
- Rear View: Move Right, Right

IMPORTANT: For beginners, it is recommended to move the command sticks lightly and slowly to keep the aircraft flying in a controllable speed.

NOTE: The controls illustrated above are set as the default command stick mode (Mode 2). The left command stick controls aircraft ascent/descent and left/right rotation; The right command stick controls aircraft forward/backward and left/right sideways movements.
LANDING AND MOTOR SHUT-DOWN

Release the command sticks when the aircraft reaches the target landing position to let it hover. Then you can either press and hold the ( ) button for 2 seconds to land the aircraft and shut down the motors automatically, or manually push the left command stick downwards (Mode 2) gently to start landing and then use one of the following ways to shut down the motors.

Left Command Stick (Mode 2):
Push downwards and hold for 2 seconds

Both Command Sticks:
Hold toe-in or toe-out for 2 seconds

IMPORTANT: Make sure to land the aircraft on a levelled surface in an open area.
### Aircraft Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hover Precision</td>
<td>Horizontal: ±2.5m; Vertical: ±1m;</td>
</tr>
<tr>
<td>Max. Yaw Rate</td>
<td>Pitch: 300°/s; Yaw: 150°/s</td>
</tr>
<tr>
<td>Max. Inclination Angle</td>
<td>GPS Mode: 20°; ATTI Mode: 25°</td>
</tr>
<tr>
<td>Max. Ascent/Descent Speed</td>
<td>Ascent: 6m/s; Descent: 3m/s</td>
</tr>
<tr>
<td>Max. Horizontal Speed</td>
<td>15m/s</td>
</tr>
<tr>
<td>Diagonal Wheelbase</td>
<td>352mm</td>
</tr>
<tr>
<td>Propeller Size</td>
<td>9.4&quot; x 5.5&quot;</td>
</tr>
<tr>
<td>Video Link Frequency</td>
<td>X-Star: 2.402GHz-2.476GHz</td>
</tr>
<tr>
<td></td>
<td>X-Star Premium: 902MHz-928MHz</td>
</tr>
<tr>
<td>Receiver Frequency</td>
<td>5.715GHz-5.816GHz</td>
</tr>
<tr>
<td>Flight Modes</td>
<td>GPS, ATTI, IOC</td>
</tr>
<tr>
<td>Operating Environment Temperature</td>
<td>-10°C-50°C (14°F-122°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C-80°C (-4°F-176°F)</td>
</tr>
<tr>
<td>Weight (Battery &amp; Propellers included)</td>
<td>1.43kg</td>
</tr>
</tbody>
</table>

### Aircraft Battery Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>Rechargeable Li-Po battery</td>
</tr>
<tr>
<td>Capacity</td>
<td>4900mAh</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>14.8V</td>
</tr>
<tr>
<td>Charging Environment Temperature</td>
<td>0°C-45°C (32°F-113°F)</td>
</tr>
<tr>
<td>Discharging Environment Temperature</td>
<td>-20°C-60°C (-4°F-140°F)</td>
</tr>
<tr>
<td>Storage Temperature &amp; Humidity</td>
<td>Temp: -10°C-45°C (14°F-113°F); Humidity: 5-70%</td>
</tr>
</tbody>
</table>

### Camera Gimbal Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Current</td>
<td>650mA@12V (Non-video Mode); 760mA@12V (Video Mode)</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>12V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C-50°C</td>
</tr>
<tr>
<td>Weight</td>
<td>175g (Camera incl.)</td>
</tr>
<tr>
<td>Dimensions (Damping Device excl.)</td>
<td>88mm x 76.5mm x 80mm</td>
</tr>
<tr>
<td>Control Accuracy</td>
<td>Pitch: ±0.015°; Roll: ±0.015°; Yaw: ±0.015°</td>
</tr>
<tr>
<td>Max. Angular Velocity</td>
<td>Pitch: ±300°/S; Yaw: ±360°/S</td>
</tr>
<tr>
<td>Controllable Range</td>
<td>Pitch: 0°-90° Yaw: ±50°</td>
</tr>
</tbody>
</table>

### Remote Controller Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Receiver Operating Frequency</td>
<td>5.715GHz-5.816GHz</td>
</tr>
<tr>
<td>Video Link Frequency</td>
<td>X-Star: 2.402GHz-2.476GHz</td>
</tr>
<tr>
<td></td>
<td>X-Star Premium: 902MHz-928MHz</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C-50°C (14°F-122°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Less than 3 months: -20°C-45°C (-4°F-113°F)</td>
</tr>
<tr>
<td></td>
<td>More than 3 months: 22°C-28°C (71.6°F-82.4°F)</td>
</tr>
<tr>
<td>Communication Distance (Open Area)</td>
<td>X-Star - CE: 500m; FCC: 1000m</td>
</tr>
<tr>
<td></td>
<td>X-Star Premium - FCC: 2000m</td>
</tr>
<tr>
<td>Operating Current/Voltage</td>
<td>X-Star: 760mA/3.7V</td>
</tr>
<tr>
<td></td>
<td>X-Star Premium: 3500mA/3.7V (App disconnected)</td>
</tr>
<tr>
<td></td>
<td>1400mA/3.7V (App connected)</td>
</tr>
<tr>
<td>Battery</td>
<td>6000mAh rechargeable Li-Ion Battery</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>X-Star: 2.8W; X-Star Premium: 5.2W</td>
</tr>
<tr>
<td>Weight (battery included)</td>
<td>X-Star: 830g; X-Star Premium: 840g</td>
</tr>
</tbody>
</table>