Safety First

We hope you enjoy flying the Hornet S, but for the safest and most enjoyable experience, please read this manual carefully. You may also watch the video manual on the JYU website by going to visit www.jyu.com or by scanning the QR code below.

⚠️ Attention

1. The Hornet S is not a toy and must not be used by anyone 14 years old or younger.
2. The propellers operate at high speed and may cause injury.

Warnings

› Never fly the Hornet S closer than 600 feet (200 meters) to high voltage power lines or cell phone towers as they may interfere with the radio signal and cause the Hornet S to crash.
› You must not fly the Hornet S in FAA posted No Fly Zones or you will be subject to fines or arrest.
› Do not fly the Hornet S near crowds of people or high traffic areas. The Hornet S should never be flown near groups of children.
› The Hornet S should not be flown in very hot or very cold temperatures, snow, rain, high winds or other extreme weather conditions.
› It is normal for the battery to feel warm when the Hornet S lands. If the battery capacity is less than 30% you should charge the battery before flying again. Do not fly when the battery capacity is less than 30%.
Always fly the Hornet S in a way that allows it to remain in sight at all times.
Always fly the Hornet S in an open field. Tall buildings and areas with many houses or trees will obstruct the GPS signal and make flying difficult.

**Notices**

**User Modifications**
Unauthorized modifications to the Hornet S are done at your own risk and will void the warranty.

**Read the Manual**
Read the user operation manual carefully before attempting to fly the Hornet S. Failure to do so may result in a crash, damage to the vehicle, damage to other property or injury.

**Battery Storage**
When not in use the Hornet S battery should be kept in a dry, smoke free environment with a temperature of 15-30 degree C.

**Warranty and Software Update**
1. Your Hornet S is warrantied against defects for a period of one year from your initial purchase (details are on the warranty card found in the package). You may also visit the JYU website or contact the distributor for more information.
2. For more information about software updates or customer service, please visit our website: www.jyu.com.
Part Descriptions

- propeller
- Battery latch
- power on/off
- battery pack lock
- gimbal (only for aerial version)
- flight LED
- camera mount lock
- FPV camera (only for FPV version)
- motor
- charging port
- Battery capacity indicator
  - 25%
  - 50%
  - 75%
  - 100%

battery power on/off
1. Short press to check battery capacity.
2. Short press+long press to start operation.
## Hornet S specifications

<table>
<thead>
<tr>
<th></th>
<th>Hornet S</th>
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<tbody>
<tr>
<td>Outdoor Anti-wind Level</td>
<td>Level 5</td>
</tr>
<tr>
<td>Max Flight Time</td>
<td>15-20 Minutes</td>
</tr>
<tr>
<td>One key to launch</td>
<td>Available</td>
</tr>
<tr>
<td>Max Flight Speed</td>
<td>120km/h (professional mode)</td>
</tr>
<tr>
<td>Max Flight Height</td>
<td>120m (beginner mode &amp; normal mode)</td>
</tr>
<tr>
<td>GPS</td>
<td>Dual mode (GPS/GLNOSS)</td>
</tr>
<tr>
<td>Transmit Distance</td>
<td>1km</td>
</tr>
<tr>
<td>Weight (Including Battery and Propellers)</td>
<td>550g (Standard Version)</td>
</tr>
<tr>
<td>Size</td>
<td>232 x 232 x 63mm</td>
</tr>
<tr>
<td>Color</td>
<td>White/Black</td>
</tr>
</tbody>
</table>
Propeller installation

- Put the black propellers on motors 1 and 3, then turn counter clockwise to attach. Put the silver propellers on motors 2 and 4, then turn clockwise to attach.

⚠️ Warning: Do not use glue or thread locking compound when attaching the propeller.

Propellers Disassembly:
First insert the disassembly tool in the motor slot to lock the motor. Turn the propellers according to the unlock mark on the propellers to remove them.

Disassembly tool

Lock(Install propellers)
Unlock(disassemble propellers)

Card slot
Flight LED Status

LED Indicator | Aircraft Status
---|---
**Flashing Red** | Not on flat ground (Standby operation)
**Flashing Green** | No GPS signal (Standby operation)
**Slow Flashing Green** | GPS signal is normal (standby operation)
**Steady Green** | Manual mode (unlock to fly in mode 3)
**Slow Flashing Yellow** | Altitude hold (unlock to fly in mode 1 and mode 2)
**Steady Yellow** | Position hold (unlock to fly in mode 1 and mode 2)
**Slow Flashing Red** | Low power (Land soon)
**Flashing Red** | Low battery warning (Must land now)

Attention:
LED 1 and 2 are on the front side of the Hornet S. You can configure these lights to operate as you like. LED 3 and 4 are on the rear side of the Hornet S and indicate flight status.

Land and Lock
When the aircraft has landed, push the left stick all the way to the bottom. The propellers will stop in approximately 3 seconds. Release the controller stick and allow it to return to the center position. This will lock the aircraft. You can then turn OFF the aircraft and remote controller.
Hornet S Configuration

1. Preparation

● Install the Hornet S configuration software on your PC.

● The software is available on www.jyu.com. Double click "Hornet S setup.exe" to install.

2. Install configuration software

● Insert the battery in the aircraft and turn the power ON.

● Connect the Hornet S to your computer using the USB cable supplied with the aircraft.

● Open the PC software, you will see the Hornet S icon. Install the driver file by selecting the appropriate file from the install directory.

● Once the PC software installs a USB - Virtual Serial Device Driver, driver installation will be complete.
Parameter Setting Instruction

1. Parameter Setting

- Open the PC software and select the Hornet S device to bring up the main screen.

- Click on the Connect button and wait for all of the current parameter data to load and be displayed on the screen.

- Set the appropriate flight parameters and save the configuration.

Note:
1. You must turn power to the aircraft OFF and then ON again for new parameter settings to take effect.
2. Be careful when flying the Hornet S for the first time after changing any flight parameters until you understand how those changes affect the performance of the aircraft.

3. Be aware that the flight parameters only effect performance in Beginner and Normal modes - they are not active in Professional mode.

- If you wish to reset all of the flight parameters to the factory defaults, click the default button and then save.

- If you find that the aircraft does not fly vertically after take off, or, you took off from ground that was not level causing the LED status to flash green, place the aircraft on a flat level surface, click the the Calibration button and then Save.

2. LED Configuration

- To change the LED configuration parameters, click the Personal Setting button.

- Click on the color that you wish to select.
Click on the RC Setting button to set the stick operational mode of the remote controller.

Turn the Remote Controller’s power ON

Connect the Remote Controller to your PC using the USB cable supplied with the Hornet S.

If you have not done so previously, select the | RD12 device driver and install it.

Click the Connect button to establish communication with the Remote Controller.

Select Left or Right Hand operation by clicking on the appropriate Operating Mode.

For additional options, review the Remote Controller Operational Manual.

Note: The tail LEDs indicate the status of the aircraft so it is not possible to change their color. Make a note of the critical status colors to avoid accidents.
4. Upgrade Firmware

You can use your computer and the Hornet S PC software to check for Remote Controller software updates that may be available from JYU. If a new software version is available, you may load it on to your Remote Controller in this way:

- Connect the Remote Controller to your PC using the supplied Micro USB cable.
- Turn the Hornet S power ON.
- Open the Hornet S software on your PC.

- Click on the Firmware Updating button, then click on the upgrade button. The LED indicator will flash yellow to indicate the software is being downloaded and the screen will show the progress of the download in % complete.

- When the update process is complete, turn the Hornet S power OFF and then ON again. The new firmware will then be active.