Read Before the First Flight

Legends

⚠️ Warning  ⚠️ Important  ⚡ Hints and Tips  �佁 Reference

Using this manual

Read the following documents before using the ZENMUSE™ X5S
1. Zenmuse X5S  Quick Start Guide

We recommend reading the Zenmuse X5S Quick Start Guide, especially its Disclaimer and Safety sections, to get familiar with all parts of the Zenmuse X5S. Refer to this Zenmuse User Manual for detailed information.

Getting more information

Visit the following webpage for more information about the Zenmuse X5S.

http://www.dji.com/zenmuse-x5s/info#video
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**Product Profile**

**Introduction**

Featuring M4/3 CMOS sensor, the Zenmuse X5S supports up to 20.80 MP still photo capture. It is capable of capturing 5.2K 30fps CinemaDNG video and Apple ProRes Video as well as 4K 60fps using H.264. The Zenmuse X5S is built using the M4/3 interchangeable lens standard. A variety of shooting modes, including single shooting, burst shooting and interval shooting, provide more options of capture. Burst and AEB is available, with up to 14 stills.

When the DJI™ CINESSD™ is in use, the Zenmuse X5S is able to record lossless videos with a bitrate of 5.2 Gbps in the CinemaDNG format or capture DNG stills at 20fps continuously.

The optional DJI kit lens is 15mm f/1.7 ASPH (equivalent to 30mm in 35mm format) with a 72-degrees field of view. Supported Lens details refer to Page 5 of Supported Lenses for the Inspire 2.

When mounted on the Inspire 2, the 3-axis gimbal provides a stable platform for the camera to get clear shots even during rapid maneuvering. The gimbal tilts the camera across a -130° to +40° pitch angle and pans ± 320° in both directions. Live HD video from the camera is streamed to the DJI GO™ 4 app.

**In the Box**

Check that all of the following items are in your package. If any item is missing, please contact DJI or your local dealer.

- Zenmuse X5S x1
- DJI MFT 15mm f/1.7 ASPH Lens x1
- Camera Balancing Ring x1 (BR-Φ46-10)
- Camera Body Cap x1
- Lens Rear Cap x1
- Carrying Case x1
- Lens Hood x1

*The Zenmuse X5S lens kit includes an original lens (with lens cap), lens hood, camera body cap, lens rear cap and camera balancing ring, and the original lens (with lens cap), lens hood and camera balancing ring have been mounted on the Zenmuse X5S before delivery; Accessories for other supported lens can be purchased separately on the official DJI store.*
Overview

Zenmuse X5S

DJI MFT 15mm f/1.7 ASPH Lens

Getting Started

Read the information below before setting up your Zenmuse X5S

Supported Devices
The Zenmuse X5S can be attached to the following device, and will be compatible with other DJI devices in the future.

DJI Inspire 2

Supported Lenses for the DJI Inspire 2
The Zenmuse X5S currently supports the following lenses, and will support additional lenses in the future.

DJI MFT 15mm/1.7 ASPH
Panasonic Lumix 15mm/1.7
Panasonic Lumix G X Vario PZ 14-42mm f/3.5-5.6 Power O.I.S
Olympus M.Zuiko 12mm/2.0
Olympus M.Zuiko 17mm/1.8
Olympus M.Zuiko 25mm/1.8
Olympus M.Zuiko 45mm/1.8
Olympus M.Zuiko 9-18mm/4.0-5.6

⚠️ For sharp and clear video, the shutter speed should be no shorter than 1/500s when using a focal length of 15mm; and 1/600s when using a focal length of 25mm.

Required Lens Accessories
The performance of the gimbal is affected by the weight of the camera. The following table shows the recommended DJI Balancing Ring, Balancing Cap, filter and lens hood required for each lens model. Details are shown as below.

<table>
<thead>
<tr>
<th>Lens</th>
<th>DJI Balancing Ring A</th>
<th>DJI Balancing Ring B</th>
<th>Filter Thread Size</th>
<th>Filter Weight</th>
<th>Lens Hood</th>
</tr>
</thead>
<tbody>
<tr>
<td>DJI MFT 15mm/1.7 ASPH</td>
<td>BR-Φ46-10</td>
<td>Not Required</td>
<td>46 mm</td>
<td>10 g</td>
<td>Required</td>
</tr>
<tr>
<td>Panasonic Lumix 15mm/1.7</td>
<td>BR-Φ46-10</td>
<td>Not Required</td>
<td>46 mm</td>
<td>10 g</td>
<td>Required</td>
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<tr>
<td>Panasonic Lumix G X Vario PZ 14-42mm f/3.5-5.6 Power O.I.S</td>
<td>BR-Φ37-17</td>
<td>BR-Φ37-6</td>
<td>37 mm</td>
<td>6 g</td>
<td>Not Required</td>
</tr>
<tr>
<td>Olympus M.Zuiko 12mm/2.0</td>
<td>BR-Φ46-10</td>
<td>Not Required</td>
<td>46 mm</td>
<td>10 g</td>
<td>Not Required</td>
</tr>
<tr>
<td>Olympus M.Zuiko 17mm/1.8</td>
<td>BR-Φ46-10</td>
<td>Not Required</td>
<td>46 mm</td>
<td>10 g</td>
<td>Not Required</td>
</tr>
<tr>
<td>Olympus M.Zuiko 25mm/1.8</td>
<td>BR-Φ46-10</td>
<td>Not Required</td>
<td>46 mm</td>
<td>10 g</td>
<td>Not Required</td>
</tr>
<tr>
<td>Olympus M.Zuiko 45mm/1.8</td>
<td>BR-Φ37-8</td>
<td>BR-Φ37-6</td>
<td>37 mm</td>
<td>6 g</td>
<td>Not Required</td>
</tr>
<tr>
<td>Olympus M.Zuiko 9-18mm/4.0-5.6</td>
<td>BC-Φ60-78</td>
<td>BR-Φ52-10</td>
<td>52 mm</td>
<td>10 g</td>
<td>Not Required</td>
</tr>
</tbody>
</table>

The thread size and weight of the Balancing Ring/ Balancing Cap are included in the model number, i.e.: BR-Φ46-10 has a thread size of 46 mm and a weight of 10 g.

⚠️ Choose the appropriate balancing ring/balancing cap based on the lens required.
- Ensure to attach the balancing ring (A)/balancing cap and the balancing ring(B) simultaneously, as illustrated when using the Panasonic Lumix G X Vario PZ 14-42mm f/3.5-5.6 Power O.I.S, Olympus M.Zuiko 45mm/1.8 and Olympus M.Zuiko 9-18mm/4.0-5.6. Attach the filter when the balancing ring (B) is not in use.
- Two balancing rings, as illustrated, are required when using the Olympus M.Zuiko 17mm/1.8. When using a filter, remove a balancing ring.
- The balancing cap should be attached to the rear of the lens when using the Olympus M.Zuiko 9-18mm/4.0-5.6. Detach the original rear cap of the lens before attaching the required balancing cap.
- Digital zoom is not supported in the M. Zuiko Digital ED 9-18mm F4-5.6 lens.
Installing the Camera Lens

The following steps use the DJI MFT 15mm f/1.7-16 ASPH to demonstrate mounting a camera lens to the camera body. Be sure to power off the battery before installation.

1. Remove the camera body cap.
2. While holding down the Lens Release Button, rotate the Lens Lock clockwise to unlock it.
3. Remove the lens cap and rear cap.

4. Align the two Lens Mount Indexes on the camera body and camera lens, and insert the camera lens into the body of the camera.
5. Rotate the camera lens clockwise until you hear a click.
6. Rotate the Lens Lock counterclockwise to lock it.
7. Mount the Balancing Ring (or a filter) and the Lens Hood.

To remove the camera lens, power off the battery.

1. While holding down the Lens Release Button, rotate the Lens Lock clockwise to unlock it.
2. While still holding down the Lens Release Button, rotate the camera lens counterclockwise to detach it.
Always power off the battery during installation or removal.

- It is recommended to wrap a dust cover around the lens to prevent contamination. DJI produces dedicated dust covers for the DJI MFT 15mm f/1.7 ASPH and the Panasonic Lumix 15mm f/1.7. Other lenses may require a third-party dust cover.
- Always tighten the Lens Lock after attaching the camera lens, as this reduces lens vibration during flight. Always loosen the Lens Lock before attaching and detaching the camera lens.
- Remember to use a filter that fulfills the weight requirements. For some lenses, use a filter and a balancing ring/balancing cap simultaneously if required.
- Some lenses must not be used with a lens hood. Check the table above for accessory requirements for your lens.
- Always hold down the lens release button before rotating the lens to detach it.
- Always hold down the lens release button to unlock the lens lock.
- Attach the camera body cap to the lens mount, and the lens cap and rear cap to the lens for protection after removal.

Mounting the Zenmuse X5S to the aircraft

Mounting the Zenmuse X5S to the Inspire 2

1. Remove the Gimbal Cap from the Zenmuse X5S.
2. Press the gimbal and the camera release button on the Inspire 2. Rotate to remove the Gimbal Cap from the Inspire 2.
3. Align the white dot on the gimbal to the red dot on Inspire 2 and insert the gimbal.
4. Rotate the Gimbal Lock to the locked position by aligning the red dots.

Always ensure that the Gimbal Connector 2.0 on the Inspire 2 is in the right position when mounting, otherwise the camera will not mount.

- Remove the lens cap when the Zenmuse X5S is in use.
- DO NOT detach the Zenmuse X5S when the aircraft is powered on.
Mechanical Range

The 3-axis gimbal provides an incredibly stable and mobile platform for the camera system to capture completely smooth images and videos. The gimbal can tilt the camera up to 170 degrees, pan 320 degrees and roll 20 degrees in either direction.

![Gimbal Mechanical Range Diagram](image)

- Take off from flat, open ground and protect the gimbal at all times.

Using the Remote Controller

Press the Shutter Button to capture photos or the Record Button to record videos. Adjust the camera’s tilt using the left dial. Turn the right dial to adjust camera settings.

1. Left Dial
   Scroll this dial to control tilt the gimbal. Scroll this dial while pressing the C1 to control yaw the gimbal; Scroll this dial while pressing C2 to control tilt the FPV camera.
2. Recording Button
   Press once to start video recording. Press again to stop recording.
3. Shutter Button
   Press to take a photo. If burst mode is selected, the set number of photos will be taken with one press.
4. Intelligent Flight Pause Button
   Press once to exit from TapFly™, ActiveTrack™ and Advanced modes.
5. Right Dial
   Press once and then scroll to set camera settings. Re-active this function after 10s free of operation.
6. C2 Button
   Set in DJI GO 4 app.
7. C1 Button
   Set in DJI GO 4 app.
DJI GO 4 App

Downloading
Search for “DJI GO 4” in the App Store, or download at www.dji.com.

Launching DJI GO 4 app
1. Power on the remote controller and the aircraft.
2. Connect the remote controller and your mobile device via a USB cable.
3. Launching DJI GO 4 app after successful connection, and the live HD video stream will begin.

Camera Operation

Touch Interface
The touch interface can be used for capturing photos, recording videos and playback. Professional photography configurations are also available.
1. Live HD Video  
2. Current Camera Settings  
3. Spot Metering/ Focus Switch  
4. AF/MF  
5. AE Lock  
6. Shutter/Record Switch  
7. MF Adjustment (in MF mode)  
8. Shutter/Record  
9. Gimbal Slider  
10. Photography Configurations and Parameter Settings  
11. Playback  
12. FPV (Tablets only)

**Basic Shooting**

Insert supported Micro SD card into the Inspire 2 to activate still capturing and video recording. Insert a DJI CINESSD to activate continuous DNG burst shooting at 20fps, and lossless video recording in CinemaDNG and ProRes formats.

**Taking Photos**

Tap the Shutter/Record Switch to select Shutter. Tap the button to take photos.

Single shooting is set by default. Choose from one of the shooting modes via the DJI GO 4 app. Tap -> Video / Photo Setting -> Photo  
Or tap the Current Camera Settings to quick set.

1. **Multiple Mode**  
   Take 3, 5, 7, 10, or 14 shots in a row.

2. **AEB (Auto Exposure Bracketing)**  
   Take 3 or 5 bracketed frames with ±0.7EV steps for exposure compensation.

3. **Timed Shot**  
   Take photos in 2, 3, 5, 7, 10, 15, 20, 30 or 60 second intervals.

4. **RAW Burst Mode**  
   Take 3, 5, 7, 10 or 14 shots in RAW format continuously. Also supports continuous burst shooting at 20fps.

**Recording**

You can start recording in the following two ways:

DJI GO 4 app: Tap Shutter/Record Switch button to activate video recording mode, and then tap the button. Tap once to start recording video, then tap again to stop recording. The recording time length will be displayed below the Shutter/Record button.

Remote Controller: You can also press the Video Recording Button on the remote controller, which has the same function.

**Advanced Settings**

**Exposure Mode**

Tap to choose from the exposure modes, including: Auto, Aperture Priority(A), Shutter Priority(S), Manual Exposure(M). By setting different EV values, a variety of exposure can be
achieved in AUTO, S and A mode. ISO values can be set in all modes. When the aircraft is in P/S/A mode, you can choose to set the ISO automatically or manually.

1. Auto
   Tap $\rightarrow$ AUTO. The shutter speed and aperture are set automatically to obtain the correct exposure.

2. Aperture Priority (A)
   Tap $\rightarrow$ A. Set your required aperture, while the camera chooses the shutter speed automatically. This mode provides a wider depth of field and can be used to blur out backgrounds.

3. S (Shutter Priority)
   Tap $\rightarrow$ S. Set your desired shutter speed, while the camera chooses the aperture automatically. This mode is ideal for freezing action, creating motion blur or low-light shots.

4. M (Manual Exposure)
   Tap $\rightarrow$ M. Set aperture, shutter speed and ISO based on actual needs.

**Photo Styles**

Selecting different styles to capture photos with different sharpnesses, contrast levels and saturation. Tap $\rightarrow$ Video / Photo Settings -> Style.

1. **Standard**: A general-purpose style for most scenes.

2. **Landscape**: The camera will focus on as much of the scene as possible using a large depth of field.

3. **Soft**: Suitable for scenes with natural or soft colors.

4. **Custom**: Sharpness, contrast and saturation can be set separately.
   - **Sharpness**: The photos will be softer with lower values and clearer with higher values.
   - **Contrast**: Increasing the value will make images more dramatic.
   - **Saturation**: Colors will lighten at lower values and darken at higher values.

**White Balance**

White balance (WB) is the process of removing unrealistic color casts. Correcting white balance can help avoid the color casts, thereby improving photos under a wider range of lighting conditions. White balance can be either set into a fixed value or a dynamic value automatically.

Tap $\rightarrow$ Video / Photo Settings -> White Balance.

1. **Auto(AWB)**
   The camera adjusts the white balance automatically.

2. **Sunny / Cloudy / Incandescent / Neon**
   Choose one of these modes if natural-looking colors cannot be achieved through photo styles.

3. **Custom**
   Set a value to compensate for a specific light source.
## List of Settings

### Photo

#### Still Photography Modes
- Micro SD: Single Shot, Multiple (3/5/7/10/14 frames), AEB (3/5 bracketed frames at 0.7EV bias), Timed Shot (2/3/5/7/10/15/20/30/60s)
- SSD: RAW Burst (3/5/7/10/14/∞ frames)

#### Image Size
- 4:3, 16:9

#### Image Format
- SSD: DNG
- Micro SD: DNG, JPEG, DNG+JPEG

#### White Balance
- Auto (AWB), Sunny, Cloudy, Incandescent, Neon, Custom (2000K~10000K)

#### Style
- Standard, Landscape, Soft, Custom (Sharpness/Contrast/Saturation)

### Video

#### Video Size

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<th>Resolution</th>
<th>Frame Rate</th>
<th>Bitrate</th>
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<td>@100Mbps</td>
</tr>
<tr>
<td></td>
<td>4K: 3840×2160</td>
<td>23.976/24/25/29.97/47.95/50/59.94p</td>
<td>@100Mbps</td>
</tr>
<tr>
<td></td>
<td>3840×1572</td>
<td>23.976/24/25/29.97p</td>
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</tr>
<tr>
<td></td>
<td>2.7K: 2720×1530</td>
<td>23.976/24/25/29.97p</td>
<td>@80Mbps</td>
</tr>
<tr>
<td></td>
<td>FHD: 1920×1080</td>
<td>23.976/24/25/29.97p</td>
<td>@60Mbps</td>
</tr>
<tr>
<td>C4K</td>
<td>4096×2160</td>
<td>23.976/24/25/29.97p</td>
<td>@100Mbps</td>
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<td>4K</td>
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<td>@100Mbps</td>
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<tr>
<td></td>
<td>3840×1572</td>
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<td>@100Mbps</td>
</tr>
<tr>
<td></td>
<td>2.7K: 2720×1530</td>
<td>23.976/24/25/29.97p</td>
<td>@80Mbps</td>
</tr>
<tr>
<td></td>
<td>FHD: 1920×1080</td>
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<td>@60Mbps</td>
</tr>
<tr>
<td>C-DNG RAW</td>
<td>5.2K: 5280×2972</td>
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<td></td>
</tr>
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<td></td>
</tr>
<tr>
<td></td>
<td>4K: 4096×2160, 3840×2160</td>
<td>50/59.94p, up to 4.0Gbps</td>
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<tr>
<td>ProRes</td>
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<tr>
<td></td>
<td>4K: 3840×2160</td>
<td>23.976/24/25/29.97p, 422 HQ @900Mbps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4K: 3840×2160</td>
<td>23.976/24/25/29.97p, 4444 XQ @2.0Gbps</td>
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</tr>
</tbody>
</table>

#### Video Format
- Micro SD: MP4/MOV (H.264, H.265)
- SSD: CinemaDNG (JPEG Lossless)
- ProRes (422HQ, 4444XQ)
Managing your Photos and Videos

Playback

DJI GO 4 App: Tap the playback button in the DJI GO 4 app to review photos and videos that you have captured. Press the same button again to return to capture images.

⚠️ Photos and videos are saved in Micro SD card or SSD card.
Update Firmware

The firmware of the Zenmuse X5S should be updated together with the Inspire 2. Using an Inspire 2 with the Zenmuse X5S mounted as an example.

Method 1: Using the DJI ASSISTANT™ 2
1. Power on the Intelligent Flight Battery, and toggle the USB Mode Switch down.
2. Connect the Inspire 2 and the PC via the USB cable (with Double A ports).
3. Launch DJI Assistant 2 and login with a DJI account.
4. Click Inspire 2 and the firmware update button.
5. Select the firmware version required.
6. DJI Assistant 2 will download and upgrade the firmware automatically.
7. Restart the aircraft after the firmware upgrade is complete.

Method 2: Using the DJI GO 4 app
1. Power on the Intelligent Flight Battery, and toggle the USB Mode Switch up.
2. Connect the aircraft and your mobile device via an appropriate USB cable.
3. Follow the on-screen instructions in the DJI GO 4 app to upgrade. Ensure to connect to the Internet when downloading the firmware.
4. Restart the aircraft after the firmware update is complete.

⚠️ During update, the aircraft start a quick single beep continuously. Then the warning sound will alternate between a longer beep and a quick double beep once the update is complete. Restart the aircraft after the firmware update is complete.

- If the warning sound turns into a long beep, retry the update.
- The battery level should be above 30% for the firmware update process.
- When using the DJI GO 4 app to update, you may disconnect the aircraft and the mobile device once the update is more than 30% completed. No Internet connection is required.
## Appendix

### Specifications

<table>
<thead>
<tr>
<th>General</th>
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</thead>
<tbody>
<tr>
<td>Name</td>
<td>ZENMUSE X5S</td>
</tr>
<tr>
<td>Dimensions</td>
<td>140 mm (W) × 98mm (H) × 132 mm (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 461 g (Including original lens, balancing ring, lens hood)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-4° to 104°F (-20° to 40°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4° to 140°F (-20° to 60°C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Camera</th>
<th>Replaceable lens</th>
</tr>
</thead>
</table>
| Supported Lenses (DJI Inspire 2) | DJI MFT 15mm/1.7 ASPH  
Panasonic Lumix 15mm/1.7  
Panasonic Lumix G X Vario PZ 14-42mm f/3.5-5.6 Power O.I.S  
Olympus M.Zuiko 12mm/2.0  
Olympus M.Zuiko 17mm/1.8  
Olympus M.Zuiko 25mm/1.8  
Olympus M.Zuiko 45mm/1.8  
Olympus M.Zuiko 9-18mm/4.0-5.6 |
| Sensors       | 4/3 CMOS                                              |
| Effective Pixels | 20.80 MP                                        |
| Image Size    | 4:3, 16:9                                             |
| ISO Range     | Photo: 100-25600  
Video: 100-6400                                        |
| Electronic Shutter Speed | Photo: 8 s - 1/8000 s  
Video: 1/24 s - 1/8000 s                                |
| Field of View | DJI MFT 15mm F1.7 ASPH 72°                           |
| Still Photography Modes | Micro SD: Single Shot, Multiple(3/5/7/10/14frames), AEB(3/5bracketed frames at 0.7EV bias), Timed  
Shot(2/3/5/7/10/15/20/30/60s)  
SSD: RAW Burst (3/5/7/10/14/∞frames)                |
### Video Recording Modes

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<tr>
<th>Mode</th>
<th>C4K Resolutions</th>
<th>4K Resolutions</th>
<th>2.7K Resolutions</th>
<th>FHD Resolutions</th>
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<td>4096x2160 23.976/24/25/29.97/47.95/50/59.94p @100Mbps</td>
<td>3840x2160 23.976/24/25/29.97/47.95/50/59.94p @100Mbps</td>
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<td>1920x1080 23.976/24/25/29.97p @60Mbps 47.95/50/59.94p @80Mbps 119.88p @100Mbps</td>
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<tr>
<td>H.265</td>
<td>4096x2160 23.976/24/25/29.97p @100Mbps</td>
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<td>C-DNG RAW</td>
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<td>ProRes</td>
<td>5280x2160 23.976/24/25/29.97p, 422 HQ @1.3Gbps</td>
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<td>3840x2160 23.976/24/25/29.97p, 4444 XQ @2.0Gbps</td>
<td></td>
</tr>
</tbody>
</table>

### Video Storage Bitrate

- Micro SD: 100 Mbps
- SSD: 4.2 Gbps

### Image Format

- DNG, JPEG, DNG+JPEG

### Video Format

- Micro SD: MP4/MOV (H.264, H.265)
- SSD: CinemaDNG(JPEG Lossless)
- ProRes (422HQ, 4444XQ)

### Supported Micro SD Cards (Insert into the aircraft)

- Sandisk Extreme 32GB UHS-3 MICROSDHC
- Sandisk Extreme 64GB UHS-3 MICROSDXC
- Panasonic 32GB UHS-3 MicroSDHC
- Panasonic 64GB UHS-3 MicroSDXC
- Samsung PRO 32GB UHS-3 MicroSDHC
- Samsung PRO 64GB UHS-3 MicroSDXC
- Samsung PRO 128GB UHS-3 MicroSDXC

### Default Lens

- Name: DJI MFT 15mm F1.7 ASPH
<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal Length</td>
<td>f=15 mm (35 mm format equivalent 30mm)</td>
</tr>
<tr>
<td>Aperture Type</td>
<td>7 diaphragm blades/circular aperture diaphragm</td>
</tr>
<tr>
<td>Maximum Aperture</td>
<td>F1.7</td>
</tr>
<tr>
<td>Minimum Aperture</td>
<td>F16</td>
</tr>
<tr>
<td>Lens Construction</td>
<td>9 elements in 7 groups (3 aspherical lenses)</td>
</tr>
<tr>
<td>Focus Distance</td>
<td>0.2 m to ∞ (from the focus distance reference line)</td>
</tr>
<tr>
<td>Mount</td>
<td>M4/3 Mount</td>
</tr>
<tr>
<td>Angle of View</td>
<td>72°</td>
</tr>
<tr>
<td>Max. Diameter</td>
<td>Approx. 57.5 mm</td>
</tr>
<tr>
<td>Overall Length</td>
<td>Approx. 36 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 115 g</td>
</tr>
</tbody>
</table>

### Gimbal

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angular Vibration Range</td>
<td>± 0.01°</td>
</tr>
<tr>
<td>Mount</td>
<td>Detachable</td>
</tr>
<tr>
<td>Controllable Range</td>
<td>Pitch: -130° to +40°; Pan: ±320°; Roll: ±20°</td>
</tr>
<tr>
<td>Max Controllable Speed</td>
<td>Pitch: 180°/s; Pan: 270°/s; Roll: 180°/s</td>
</tr>
</tbody>
</table>

Zenmuse X5S does not support file storage. Please save your photos and videos in the Micro SD/SSD cards inserted in the aircraft.