Using this manual

Legends

⚠️ Warning  ⚠️ Important  🌟 Hints and Tips  📚 Reference

Before Flight

Read the following documents before using the Zenmuse X5R:
1. Zenmuse X5R In the Box
2. Zenmuse X5R User Manual
3. Zenmuse X5R Safety Guidelines and Disclaimer

Check that all of the items are included in the package. We recommend that you watch all tutorial videos on the official DJI website and read the Disclaimer and Safety Guidelines before you fly. Refer to the User Manual for more detailed information.

Watch the Video Tutorials

Please watch the tutorial videos at the link below, which demonstrates how to use Zenmuse X5R safely:

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

Overview

The Zenmuse X5R is the world’s first fully integrated flying gimbal and camera system capable of capturing video in 4K Cinema RAW for high-end professional video production. The Type 4/3 CMOS sensor supports lossless 4K RAW video and 16 MP still photos, with shooting modes including burst, AEB and timelapse.

Integrated into the system is a dedicated 512GB X5R SSD that stores lossless 4K RAW video at up to 2.4Gbps and can be synced with DJI CineLight for post-processing RAW files. The optional lens kit includes the DJI MFT 15mm f/1.7 ASPH (30mm in 35mm format) with a 72-degrees field of view.

When mounted on the Inspire 1 series, the 3-axis gimbal provides a stable platform for the camera to get clear shots even during maneuvers. The gimbal tilts the camera across a -90° to +30° pitch angle and pans ±320° in both directions. Live HD video from the camera is streamed to the DJI GO 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 X5R Camera Body** ×1
- **Camera Balancing Ring** ×1 *(BR-Φ46-10)*
- **16GB Micro SD Card** ×1
- **USB 3.0 Cable** ×1
- **Zenmuse X5R Camera Body** ×1
- **DJI MFT 15mm f/1.7 ASPH Lens** ×1
- **Lens Hood** ×1
- **512GB X5R SSD** ×1
- **USB 3.0 Cable** ×1
- **X5R READER** ×1
- **Manuals**

*The original lens, balancing ring and lens hood are only included in the Zenmuse X5R lens kit. Accessories for other supported lenses can be purchased separately on the DJI Store.*

**Optional Accessories**

The Zenmuse X5R can be mounted on the Inspire 1 aircraft with the following accessory which is available on the DJI Store.

- **Inspire 1 Gimbal Mounting Plate** ×1
Components

Zenmuse X5R Gimbal and Camera

DJI MFT 15mm f/1.7 ASPH Lens

X5R Reader
Getting Started

Read the information below before setting up your Zenmuse X5R

Supported Devices
The Zenmuse X5R can be attached to the following device, Zenmuse X5R may be compatible with other DJI devices in future.

DJI Inspire 1

Supported Lenses for the Inspire 1
The Zenmuse X5R currently supports the following lenses, and will continue to support more lenses in future.

DJI MFT 15mm f/1.7 ASPH
Panasonic Lumix G Leica DG Summilux 15mm f/1.7 ASPH
Olympus M.Zuiko Digital ED 12mm f/2.0
Olympus M.Zuiko Digital ED 17mm f/1.8
Olympus M.Zuiko Digital ED 25mm f/1.8
Olympus M.Zuiko Digital ED 45mm f/1.8 (For still photography)
Olympus M.Zuiko Digital ED 14-42mm f/3.5-5.6 EZ (For still photography)

Required Lens Accessories
The following table shows the recommended DJI Balancing Ring and filter and lens hood requirement for each lens model.

<table>
<thead>
<tr>
<th>Model</th>
<th>DJI Balancing Ring</th>
<th>Filter Thread Size</th>
<th>Weight</th>
<th>Lens Hood</th>
</tr>
</thead>
<tbody>
<tr>
<td>DJI MFT 15mm f/1.7 ASPH</td>
<td>BR-Φ46-10</td>
<td>46 mm</td>
<td>10 g</td>
<td>Required</td>
</tr>
<tr>
<td>Panasonic Lumix G Leica DG Summilux 15mm f/1.7 ASPH</td>
<td>BR-Φ46-10</td>
<td>46 mm</td>
<td>10 g</td>
<td>Required</td>
</tr>
<tr>
<td>Olympus M.Zuiko Digital ED 12mm f/2.0</td>
<td>BR-Φ46-10</td>
<td>46 mm</td>
<td>10 g</td>
<td>Not required</td>
</tr>
<tr>
<td>Olympus M.Zuiko Digital ED 17mm f/1.8</td>
<td>BR-Φ46-33</td>
<td>46 mm</td>
<td>33 g</td>
<td>Not required</td>
</tr>
<tr>
<td>Olympus M.Zuiko Digital ED 25mm f/1.8</td>
<td>Not required</td>
<td>46 mm</td>
<td>10 g</td>
<td>Not required</td>
</tr>
<tr>
<td>Olympus M.Zuiko Digital ED 45mm f/1.8 (For still photography)</td>
<td>Not required</td>
<td>37 mm</td>
<td>14 g</td>
<td>Not required</td>
</tr>
<tr>
<td>Olympus M.Zuiko Digital ED 14-42mm f/3.5-5.6 EZ (For still photography)</td>
<td>BR-Φ37-23</td>
<td>37 mm</td>
<td>23 g</td>
<td>Not required</td>
</tr>
</tbody>
</table>

Attach either a DJI Balancing Ring or filter only. Attach a lens hood only if required. The listed Balancing Rings can be purchased on the DJI Store.
The thread size and weight of the Balancing Ring are included in the model number (i.e. BR-Φ46-10 has a thread size of 46 mm and a weight of 10 g).

⚠️ The Balancing Ring must be installed on the camera lens when a filter is not used.

**Supported Micro SD Cards**

The Zenmuse X5R comes with a 16GB Micro SD card, but also supports Micro SD cards with a capacity of up to 64GB. We recommend using a UHS-1 Micro SD card to minimize the delay when reading and writing high resolution video data.

⚠️ DO NOT remove the Micro SD card from the Zenmuse X5R when it is powered on.

**Supported X5R SSD**

The Zenmuse X5R comes with an integrated 512GB X5R SSD for storing lossless and uncompressed footage. Note that its operating temperature is 32° to 158° F (0° to 70° C).

**Installing the Camera Lens**

The following steps use the DJI MFT 15mm f/1.7 ASPH as illustration of how to mount the 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 and then:
1. While holding down the Lens Release Button, rotate the Lens Lock clockwise to unlock it.
2. While holding down the Lens Release Button, rotate the camera lens counterclockwise to detach it.

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 G Leica DG Summilux 15mm f/1.7 ASPH. Other lenses may require you to purchase a third-party dust cover.

- It is important to tighten the Lens Lock after attaching the camera lens, as this can reduce the vibrations of the lens when the aircraft is moving in flight. Always loosen the Lens Lock before attaching and detaching the camera lens.
- A filter can be installed in place of the Camera Balancing Ring. Remember to use a filter that fulfills the weight requirement.
- Some lenses must not be used with a lens hood. Be sure to check the table above for the accessory requirements for your lens.
- Be sure to set the lens to AF mode.
- Always hold down the Lens Release Button before rotating the Lens Lock to unlock it.
- Always hold down the X5R SSD Release Button before removing the X5R SSD.
Mounting the Zenmuse X5R to the Inspire 1

(Watch Video: http://www.dji.com/product/zenmuse-x5s/info#video)

Replace the Inspire 1 Gimbal Mounting Plate
1. Remove the two black dampers at the front.
2. Disconnect the 10-PIN cable and 8-PIN cable in order. Be careful not to damage the gimbal cables.
3. Remove the other two black dampers.

4. Attach the new gimbal mounting plate as shown below. With their flat sides facing outwards, align the rear mounting plates with the rear bracket's screw holes. Tighten the screws with a screwdriver.
5. Connect the 8-PIN cable and 10-PIN cable in order.
6. Place the front mounting bracket to the front bracket with its grooved side facing inwards. Adjust the 8-PIN cable and 10-PIN cable to avoid protrusion, and then tighten the screws.
Attach the Zenmuse X5R

Power off the aircraft.
1. Rotate the Gimbal Lock to the unlocked position.
2. While aligning the white lines on the Gimbal Connector and Gimbal Lock, insert the Gimbal Connector.
3. Rotate the Gimbal Lock to the locked position.
4. Turn the two keys on the other end of the mounting plate 90 degrees into the slots.

Be careful not to damage the Gimbal Connector and its metal contacts when attaching or storing the Zenmuse X5R.

Mechanical Range

The 3-axis gimbal provides an incredibly stable and mobile platform for the camera system to capture silky smooth video. The gimbal can tilt the camera up to 120 degrees and pan 320 degrees in either direction, providing 640 degrees of yaw rotation.

DO NOT attach or detach the Zenmuse X5R when the aircraft is powered on.
Take off from a flat, open area and protect the gimbal after powering up.
Operating the Camera

Camera Panel

All camera operations are done on the Camera Panel in Camera View of the DJI GO app.

Always set the camera lens to AF mode. The focus and aperture will be controlled by the DJI GO app digitally.

Basic Shooting

Ensure the Micro SD card is inserted to enable camera operations. Photos are saved on the Micro SD card, while videos are saved on both the Micro SD card and X5R SSD.

Taking Photos

Slide the Photo/Video Switch to the position. Tap the button or the shutter button on the remote controller to take a single photo. Choose from one of the shooting modes by tapping “MENU” -> Photo.

1. Burst Mode
   Take 3, 5, or 7 shots in a row.

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

3. Time-lapse
   Take photos in 5, 7, 10, 20 or 30 second intervals.

Recording Videos

Slide the Photo/Recording Switch to the position. Tap the icon or the Record Button on the remote controller to start or stop recording video.
Advanced Settings

Exposure Modes
Tap ☰ to choose from the following exposure modes:

1. AUTO
   The shutter speed and aperture are set automatically to obtain the correct exposure.

2. S (Shutter Priority)
   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.

3. A (Aperture Priority)
   Set your desired aperture, while the camera chooses the shutter speed automatically. This mode provides more control over depth of field and can be used to blur out backgrounds.

4. M (Manual Exposure)
   In general, increase the ISO for low light environments, and decrease the ISO if the surroundings are very bright.

Photo Styles
Tap MENU -> ☰ -> Style to choose from the following styles:

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

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

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

4. Custom
   Sharpness: -3 to +3
   Contrast: -3 to +3
   Saturation: -3 to +3

White Balance
Tap MENU -> ☰ ->White Balance to choose from the following modes:

1. Auto
   The camera adjusts the white balance automatically.

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

3. Custom (2000K~10000K)
   Set a value between 2000K and 10000K to compensate for a specific light source.
### List of Settings

#### Photo

<table>
<thead>
<tr>
<th>Shooting Modes</th>
<th>Single Shot, HDR Shot, Burst Mode (3/5/7), AEB (3/5 bracketed frames), Timed-lapse(5s/7s/10s/20s/30s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Size</td>
<td>4:3, 16:9</td>
</tr>
<tr>
<td>Image Format</td>
<td>RAW, JPEG, JPEG+RAW</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto, Sunny, Cloudy, Incandescent, Neon, Custom (2000K~10000K)</td>
</tr>
<tr>
<td>Style</td>
<td>Standard, Landscape, Soft, Custom (Sharpness/Contrast/ Saturation)</td>
</tr>
<tr>
<td>Color</td>
<td>D-Log, D-Cinelike, None, Art, B&amp;W, Vivid, Beach, Dream, Classic, Nostalgia</td>
</tr>
</tbody>
</table>

#### Video

<table>
<thead>
<tr>
<th>Video Size</th>
<th>4K (SSD RAW): 4096 × 2160 24p, (3840 × 2160) 24/30p</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.7K (SSD RAW): 2704 × 1520 24/30p</td>
</tr>
<tr>
<td></td>
<td>1080P (SSD RAW): 1920 × 1080 24/30/48/60p</td>
</tr>
<tr>
<td>Video Format</td>
<td>Micro SD: MP4/MOV (Codec: H.264)</td>
</tr>
<tr>
<td></td>
<td>X5R SSD: CinemaDNG (Codec: Lossless JPEG)</td>
</tr>
<tr>
<td>NTSC/ PAL</td>
<td>PAL, NTSC</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto, Sunny, Cloudy, Incandescent, Neon, Custom (2000K~10000K)</td>
</tr>
<tr>
<td>Style</td>
<td>Standard, Landscape, Soft, Custom (Sharpness/Contrast/ Saturation)</td>
</tr>
<tr>
<td>Color</td>
<td>D-Log, D-Cinelike, None, Art, B&amp;W, Vivid, Beach, Dream, Classic, Nostalgia</td>
</tr>
</tbody>
</table>

#### General

<table>
<thead>
<tr>
<th>Quick Preview</th>
<th>Off, 1s, 2s, 3s, 4s, 5s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Flicker</td>
<td>Auto, 50Hz and 60Hz</td>
</tr>
<tr>
<td>Show Grid</td>
<td>Off, Grid Line, Grid + Diagonal, Center Point</td>
</tr>
<tr>
<td>File Index Mode</td>
<td>Reset, Continuous</td>
</tr>
<tr>
<td>Others</td>
<td>Histograms, Video Captions, Over Exposure Warning, AF Assisted Focus, MF Assisted Focus, Lens Profile, Calibration, Reset Settings, Format SD Card, Format SSD</td>
</tr>
</tbody>
</table>

Note: Be sure to calibrate the camera lens in the DJI GO app for manual zoom to work properly.
Managing your Photos and Videos

Playback
Tap ▶ in the DJI GO app or press the Playback Button on the remote controller to review photos and videos that you have captured. Press the same button again to return to capturing images.

⚠️ You can view and delete files on the Micro SD card.

Downloading your Files from Micro SD Card
Download your photo and video files to your PC via the Micro USB Port or using a Micro SD card reader.

⚠️ The camera must be powered on to access the files.
DJI CineLight and your X5R SSD Files

Files on the X5R SSD must be exported with DJI CineLight*.

Installing DJI CineLight

System Requirements

- Mac OS X 10.10~10.10.5, 10.11.4 or later
- 6G of memory
- Intel i5/i7 with 4+ cores
- 1440x900 resolution
- Mac Pro, iMac and MacBook Pro recommended
- Devices supporting USB3.0 recommended
- Discrete graphics card recommended

Installation (Installer is included on the X5R SSD)

1. Plug the X5R SSD into the X5R Reader.
2. Connect the X5R Reader to your computer with a USB cable.
3. Select the "DJI" device.
4. Click to mount “DjiCineLight.dmg” in Finder.
5. Drag “CineLight.app” to /Applications/.

⚠️ You will be prompted if an update is available when DJI CineLight launches.

* Install the corresponding software according to your operation system.
For Windows: Install DJI Camera Exporter and refer to DJI Camera Exporter User Manual for instructions.
Accessing your Files

1. Power off the Zenmuse X5R. While holding down the X5R SSD Release Button, remove the X5R SSD.
2. Insert the X5R SSD into the X5R Reader.
3. Connect the X5 Reader to your computer with a USB cable.
4. Launch DJI CineLight.

Post-Processing with DJI CineLight

Using DJI CineLight, you can import Adobe DNG files on the X5R SSD or your computer, add effects and enhancements, and then export them as a DNG sequence or high quality QuickTime video.
[1] Theme Switch
[ʼ_theme_switchʼ] : Toggle between the day and night themes.

[2] Libraries
Shows a list of connected devices (such as the X5R SSD) and your computer’s local library.

Connected Devices: Displays the device’s name, read-only mode, free disk space and total disk space.

Computer: Displays saved DNG sequences.

Quick Format: Right click the device name and choose “Quick Format” to reformat the connected device.

⚠️ : Indicates that the connected device is read-only and cannot be reformatted.

⚠️ Reformatting the device will cause all your files to be lost.

Displays all the contents in the current library (includes the name, thumbnail, and total time). Movie clips are saved as DNG sequences but DJI CineLight offers video playback.

Export... Remove : Right click to “Export” or “Remove” the movie clip.

⚠️ A red mark will appear over the movie clip if its format is unknown.


+  −

+ : Import movie clips to the selected library. Only DNG sequences on your computer can be imported.

− : Remove the selected movie clips.

⚠️ : Export the selected movie clips.
A. Export Format Options

**DNG Sequence**: Export the DNG sequence.

**TIFF Sequence**: Convert the DNG sequence to TIFF format and export.

**ProRes**: Export the DNG sequence as a movie clip encoded in ProRes.

B. Select “Original Size” to export the movie clip in its original resolution; select “Half Size Preview” to export the movie in half of its original resolution.

C. Click to synchronize the DNG sequence with the proxy files (on your Micro SD card with the same file names) to eliminate any misaligned frames. The “Range” indicates the first and last frames.

D. Select a frame rate for the exported movie clip.

E. Check this box to apply your effects to the exported clip. Note that this option is disabled when exporting in DNG sequence.

⚠️ You can only import and delete files in your Local Library.

[5] Cursor Mode

- : Cursor.
- : Zoom. Left click to zoom out; Alt + left click to zoom in.
- : Drag.

[6] Selected Frame

Display the frame that is currently selected.

[7] Timeline View

A. Click to move the frame indicator.

B. The Selection Tool allows users to select and export a section of the movie clip.
[8] Display Controls

- : Zoom in or out, scale or auto fit.

<table>
<thead>
<tr>
<th>Space Bar</th>
<th>Play/Pause</th>
</tr>
</thead>
<tbody>
<tr>
<td>◄</td>
<td>Play previous frame</td>
</tr>
<tr>
<td>►</td>
<td>Play next frame</td>
</tr>
</tbody>
</table>

Trackpad: Drag files, zoom in or zoom out.

[9] Thumbnails

[10] Playback Controls

- : Play previous frame
- : Play/Stop
- : Play next frame


- : Options to play the movie clip frame by frame or according to time.

[12] Timeline Actions

- : Move to previous frame
- : Move to next frame
- : Export the selected frames

[13] Share

- : Share image with friends, move to folder or send by email.

[14] Layout

- : Show/hide the left, right or timeline panes.

[15] Properties

A. RGB Histogram
B. Hover Pixel Color
C. Image Information
[16] Color Calibrations
A. Basic: Adjust the white balance, exposure and saturation.
B. Tone Curve: Adjust up to 5 points on the tone curve.
C. Denoise and Sharpen
   Adjust the denoise and sharpening values.

D. Color Management
   Select the output color space.
E. Image Information
   Detailed information of the movie clip.
F. Camera setting parameters when shooting.

[17] Analysis
A. Vector Scope
B. RGB and YCbCr Parades
## Appendix

### Specifications

#### General

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Zenmuse X5R</td>
</tr>
<tr>
<td>Dimensions</td>
<td>136 (W) × 125 (H) × 131 (D) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 583 g (Including original lens, balancing ring, lens hood, Micro SD card, X5R SSD)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° to 104° F (0° to 40° C)</td>
</tr>
</tbody>
</table>

#### Camera

<table>
<thead>
<tr>
<th>Lens</th>
<th>Replaceable lens</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M43 mount supporting auto-focus</td>
</tr>
<tr>
<td>Supported Lenses</td>
<td>DJI MFT 15mm f/1.7 ASPH</td>
</tr>
<tr>
<td></td>
<td>Panasonic Lumix G Leica DG Summilux 15mm f/1.7 ASPH</td>
</tr>
<tr>
<td></td>
<td>Olympus M.Zuiko Digital ED 12mm f/2.0</td>
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<tr>
<td></td>
<td>Olympus M.Zuiko Digital ED 17mm f/1.8</td>
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<td>Olympus M.Zuiko Digital ED 25mm f/1.8</td>
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<td></td>
<td>(For still photography)</td>
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<tr>
<td></td>
<td>Olympus M.Zuiko Digital ED 14-42mm f/3.5-5.6 EZ</td>
</tr>
<tr>
<td></td>
<td>(For still photography)</td>
</tr>
<tr>
<td>Sensor</td>
<td>Type 4/3 CMOS sensor</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>16 M</td>
</tr>
<tr>
<td>Image Size</td>
<td>4:3, 16:9</td>
</tr>
<tr>
<td>ISO Range</td>
<td>Photo: 100 to 25600</td>
</tr>
<tr>
<td></td>
<td>Video: 100 to 6400</td>
</tr>
<tr>
<td>Electronic Shutter Speed</td>
<td>Photo: 8 to 1/8000 s</td>
</tr>
<tr>
<td></td>
<td>Video: 1/25 to 1/8000 s</td>
</tr>
<tr>
<td>Field of View</td>
<td>DJI MFT 15mm f/1.7 ASPH</td>
</tr>
<tr>
<td>Still Photography Modes</td>
<td>Single Shot, HDR Shot, Burst Mode (3/5/7),</td>
</tr>
<tr>
<td></td>
<td>AEB (3/5 bracketed frames at 0.7EV bias),</td>
</tr>
<tr>
<td></td>
<td>Timed-lapse(5s/7s/10s/20s/30s)</td>
</tr>
<tr>
<td>Video Resolution</td>
<td>4K (SSD RAW): 4096 × 2160 24p, (3840 × 2160) 24/30p</td>
</tr>
<tr>
<td></td>
<td>2.7K (SSD RAW): 2704 × 1520 24/30p</td>
</tr>
<tr>
<td></td>
<td>1080P (SSD RAW): 1920 × 1080 24/30/48/60p</td>
</tr>
<tr>
<td>Max Video Bitrate</td>
<td>Micro SD: 60 Mbps</td>
</tr>
<tr>
<td></td>
<td>X5R SSD: 2.4 Gbps (Average: 1.7 Gbps)</td>
</tr>
<tr>
<td><strong>Supported File Systems</strong></td>
<td>Micro SD: FAT32 (&lt;=32 GB); exFAT (&gt;32 GB)</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td><strong>Photo Formats</strong></td>
<td>RAW, JPEG, JPEG+RAW</td>
</tr>
<tr>
<td><strong>Video Formats</strong></td>
<td>Micro SD: MP4/MOV (Codec: H.264)</td>
</tr>
<tr>
<td></td>
<td>X5R SSD: CinemaDNG (Codec: Lossless JPEG)</td>
</tr>
<tr>
<td><strong>Supported Micro SD Cards</strong></td>
<td>Class 10 or UHS-1 or above Micro SD cards</td>
</tr>
<tr>
<td></td>
<td>Max capacity of 64 GB</td>
</tr>
<tr>
<td><strong>Supported X5R SSD</strong></td>
<td>Capacity: 512 GB</td>
</tr>
<tr>
<td></td>
<td>Dimensions: 84.25 mm x 38 mm x 6.5 mm</td>
</tr>
<tr>
<td></td>
<td>Weight: 33 g</td>
</tr>
<tr>
<td></td>
<td>Operating temperature: 32° - 158° F (0° - 70° C)</td>
</tr>
<tr>
<td></td>
<td>Storage temperature: -40° - 185° F (-40° to 85° C)</td>
</tr>
<tr>
<td></td>
<td>Humidity: 5% -95%, non-condensing</td>
</tr>
<tr>
<td><strong>X5R READER</strong></td>
<td>Dimensions: 73.6 mm x 56 mm x 15 mm</td>
</tr>
<tr>
<td></td>
<td>Weight: 70 g</td>
</tr>
<tr>
<td></td>
<td>Operating Temperature: 0° to 40° C</td>
</tr>
<tr>
<td><strong>Default Lens</strong></td>
<td>Name: DJI MFT 15mm f/1.7 ASPH</td>
</tr>
<tr>
<td></td>
<td>Focal length: f=15 mm (35 mm format equivalent 30 mm)</td>
</tr>
<tr>
<td></td>
<td>Aperture type: 7 diaphragm blades/circular aperture diaphragm</td>
</tr>
<tr>
<td></td>
<td>Maximum aperture: F1.7</td>
</tr>
<tr>
<td></td>
<td>Minimum aperture value: F16</td>
</tr>
<tr>
<td></td>
<td>Lens construction: 9 elements in 7 groups (3 aspherical lenses)</td>
</tr>
<tr>
<td></td>
<td>In focus distance: 0.2 m to ∞ (from the focus distance reference line)</td>
</tr>
<tr>
<td></td>
<td>Mount: Micro Four Thirds Mount</td>
</tr>
<tr>
<td></td>
<td>Angle of view: 72°</td>
</tr>
<tr>
<td></td>
<td>Max. diameter: Approx. 2.26 inches (57.5 mm)</td>
</tr>
<tr>
<td></td>
<td>Overall length: Approx. 1.42 inches (36 mm)</td>
</tr>
<tr>
<td></td>
<td>Mass: 115 g</td>
</tr>
<tr>
<td><strong>Gimbal</strong></td>
<td>Angular Vibration Range: ±0.02°</td>
</tr>
<tr>
<td></td>
<td>Mount: Detachable</td>
</tr>
<tr>
<td></td>
<td>Controllable Range: Pitch:-90° to +30°</td>
</tr>
<tr>
<td></td>
<td>Pan:±320°</td>
</tr>
<tr>
<td></td>
<td>Max Controllable Speed: Pitch:120°/s</td>
</tr>
<tr>
<td></td>
<td>Pan:180°/s</td>
</tr>
</tbody>
</table>