



## DJI FPV

### Camera

- **Sensor**

- 1/2.3" CMOS  
Effective pixels: 12 million

- **Lens**

- FOV: 150°  
35mm Format Equivalent: 14.66 mm  
Aperture: f/2.8  
Focus Mode: Fixed Focus  
Focus Range: 0.6 m to  $\infty$

- **ISO**

- 100-12800

- **Shutter Speed**

- 1/50-1/8000 s

- **Still Photography Modes**

- Single shot

- **Max Image Size**

- 3840×2160

- **Photo Format**

- JPEG
- **Video Resolution**
  - 4K: 3840x2160 at 50/60fps
  - FHD: 1920x1080 at 50/60/100/120fps
- **Video Formats**
  - MP4/MOV (H.264/MPEG-4 AVC, H.265/HEVC)
- **Max Video Bitrate**
  - 120 Mbps
- **Color Profile**
  - Standard, D-Cinelike
- **RockSteady EIS**
  - Available
- **Distortion Correction**
  - Available
- **Supported File Formats**
  - exFAT (recommended)
  - FAT32

## Gimbal

- **Mechanical Range**
  - Tilt: -65° to 70°
- **Controllable Range**
  - Tilt: -50° to 58°
- **Stabilization**
  - Single-axis (tilt), electronic roll axis
- **Max Control Speed**
  - 60°/s
- **Angular Vibration Range**
  - $\pm 0.01^\circ$  (N mode)
- **Electronic Roll Axis**

- Available (can stabilize footage when the aircraft is tilted at angles of up to 10°)

## Aircraft

- **Takeoff Weight**

- Approx. 795 g

- **Dimensions**

- 255×312×127 mm (with propellers)  
178×232×127 mm (without propellers)

- **Diagonal Distance**

- 245 mm

- **Max Ascent Speed**

- M mode: No limit  
S mode: 15 m/s  
N mode: 8 m/s

- **Max Descent Speed**

- M mode: No limit  
S mode: 10 m/s  
N mode: 7 m/s

- **Max Speed**

- 140 kph; M mode: 39 m/s (27 m/s in Mainland China)  
S mode: 27 m/s  
N mode: 15 m/s

- **Max Acceleration**

- 0-100 kph: 2 s (in ideal conditions while flying in M mode)

- **Max Service Ceiling Above Sea Level**

- 6,000 m

- **Max Flight Time**

- Approx. 20 mins (measured while flying at 40 kph in windless conditions)

- **Max Hover Time**

- Approx. 16 mins (measured when flying in windless conditions)

- **Max Flight Distance**

- 16.8 km (measured while flying in windless conditions)

- **Max Wind Speed Resistance**

- 39-49 kph (25-31 mph)

- **Operating Temperature**

- -10° to 40° C (14° to 104° F)

- **Transmitter Power (EIRP)**

- 2.400-2.4835 GHz

FCC: ≤ 31.5dBm

CE: ≤ 20 dBm

SRRC: ≤ 20 dBm

MIC: ≤ 20 dBm

5.725-5.850 Ghz

FCC: ≤ 31.5 dBm

CE: ≤ 14 dBm

SRRC: ≤ 25.5 dBm

- **Number of Antennas**

- Four

- **GNSS**

- GPS+GLONASS+GALILEO

- **Hovering Accuracy Range**

- Vertical:

±0.1 m (with Vision Positioning)

±0.5 m (with GPS positioning)

Horizontal:

±0.3 m (with Vision Positioning)

±1.5 m (with GPS positioning)

- **Supported SD Cards**

- microSD (up to 256 GB)

- **Internal Storage**

- N/A

## Sensing System

- **Forward**

- Precision Measurement Range: 0.5-18 m  
Obstacle Sensing: Available in N mode only  
FOV: 56° (horizontal), 71° (vertical)

- **Downward (dual vision sensors + ToF)**

- ToF Effective Sensing Height: 10 m  
Hovering Range: 0.5-15 m  
Vision Sensor Hovering Range: 0.5-30 m

- **Downward Auxillary Light**

- Single LED

- **Operating Environment**

- Refers to non-reflective, discernible surfaces  
Diffuse reflectivity >20% (e.g. walls, trees, people)  
Adequate lighting conditions (lux >15 in normal indoor lighting conditions)

## Charger

- **Input**

- 100-240 V, 50/60 Hz, 1.8 A

- **Output**

- Battery charging interface:  
25.2 V  $\pm$  0.1 V  
3.57 A  $\pm$  0.1 A (high current)  
1 A  $\pm$  0.2 A (low current)

USB Port:

5V/2A (x2)

- **Rated Power**

- 86 W

## Intelligent Flight Battery

- **Battery Capacity**

- 2000 mAh

- **Voltage**

- 22.2 V

- **Max Charging Voltage**

- 25.2 V

- **Battery Type**

- LiPo 6S

- **Energy**

- 44.4 Wh@0.5C

- **Discharge Rate**

- Standard: 10C

- **Weight**

- 295 g

- **Charging Temperature**

- 5° to 40° C (41° to 104° F)

- **Max Charging Power**

- 90 W

## Video Transmission

- **Operating Frequency**

- 2.400-2.4835 GHz  
5.725-5.850 GHz

- **Communication Bandwidth**

- 40 MHz (Max.)

- **Live View Mode**
  - Low-Latency Mode: 810p/120fps  $\leq$  28ms
  - High-Quality Mode: 810p/60fps  $\leq$  40ms
- **Max Video Bitrate**
  - 50 Mbps
- **Transmission Range**
  - 10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)
- **Audio Transmission Support**
  - Yes

## DJI FPV Goggles V2

- **Weight**
  - Approx. 420 g (headband and antennas included)
- **Dimensions**
  - 184×122×110 mm (antennas excluded)
  - 202×126×110 mm (antennas included)
- **Screen Size**
  - 2-inches (×2)
- **Screen Refresh Rate**
  - 144 Hz
- **Communication Frequency** <sup>[1]</sup>
  - 2.400-2.4835 GHz
  - 5.725-5.850 GHz
- **Transmitter Power (EIRP)**
  - 2.400-2.4835 GHz
    - FCC:  $\leq$  28.5 dBm
    - CE:  $\leq$  20 dBm
    - SRRC:  $\leq$  20 dBm
    - MIC:  $\leq$  20 dBm
  - 5.725-5.850 GHz

FCC:  $\leq 31.5$  dBm

CE:  $\leq 14$  dBm

SRRC:  $\leq 19$  dBm

- **Communication Bandwidth**

- 40 MHz (Max.)

- **Live View Mode**

- Low-Latency Mode: 810p/120fps  $\leq 28$ ms\*

High-Quality Mode: 810p/60fps  $\leq 40$ ms\*

\* A 150° FOV is available when shooting at 50 or 100 fps. For other frame rates, the FOV will be 142°.

- **Max Video Bitrate**

- 50 Mbps

- **Transmission Range** <sup>[2]</sup>

- 10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)

- **Video Format**

- MP4 (Video format: H.264)

- **Supported Video and Audio Playback Formats**

- MP4, MOV, MKV (Video format: H.264; Audio format: AAC-LC, AAC-HE, AC-3, MP3)

- **Operating Temperature**

- 0° to 40° C (32° to 104° F)

- **Power Input**

- Dedicated DJI Goggles batteries or other 11.1.-25.2 V batteries.

- **FOV**

- FOV: 30° to 54°; Image size: 50-100%

- **Interpupillary Distance Range**

- 58-70 mm

- **Supported microSD Cards**

- microSD (up to 256 GB)

## DJI FPV Goggles Battery



- **Capacity**
  - 1800 mAh
- **Voltage**
  - 9 V (Max.)
- **Type**
  - LiPo 2S
- **Energy**
  - 18 Wh
- **Charging Temperature**
  - 0° to 45° C (32° to 113° F)
- **Max Charging Power**
  - 10 W
- **Battery Life**
  - Approx. 110 minutes (measured in an environment of 25°C at maximum brightness level)

## DJI FPV Remote Controller 2

- **Operating Frequency**
  - 2.400-2.4835 GHz
  - 5.725-5.850 GHz
- **Transmitter Power (EIRP)**
  - 2.400-2.4835 GHz
    - FCC: ≤ 28.5 dBm
    - CE: ≤ 20 dBm
    - SRRC: ≤ 20 dBm
    - MIC: ≤ 20 dBm
  - 5.725-5.850 GHz
    - FCC: ≤ 31.5 dBm
    - CE: ≤ 14 dBm
    - SRRC: ≤ 19 dBm

- **Max. Transmission Distance**
  - 10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)
- **Dimensions**
  - 190x140x51 mm
- **Weight**
  - 346 g
- **Battery Life**
  - Approx. 9 hours
- **Charging Time**
  - 2.5 hours

## Motion Controller

- **Model**
  - FC7BMC
- **Weight**
  - 167 g
- **Operating Frequency Range**
  - 2.400-2.4835 GHz; 5.725-5.850 GHz
- **Max Transmission Distance (unobstructed, free of interference)**
  - 10 km (FCC), 6 km (CE/SRRC/MIC)
- **Transmitter Power (EIRP)**
  - 2.4 GHz:  $\leq 28.5$  dBm (FCC),  $\leq 20$  dBm (CE/ SRRC/MIC)
  - 5.8 GHz:  $\leq 31.5$  dBm (FCC),  $\leq 19$  dBm (SRRC),  $\leq 14$  dBm (CE)
- **Operating Temperature Range**
  - $-10^{\circ}$  to  $40^{\circ}$  C ( $14^{\circ}$  to  $104^{\circ}$  F)
- **Battery Life**
  - 300 minutes

## microSD card

- **Supported microSD cards**

- Max 256 GBUHS-I Speed Grade 3

- **Recommended microSD cards**

- SanDisk High Endurance U3 V30 64GB microSDXC
- SanDisk Extreme PRO U3 V30 A2 64GB microSDXC
- SanDisk Extreme U3 V30 A2 64GB microSDXC
- SanDisk Extreme U3 V30 A2 128GB microSDXC
- SanDisk Extreme U3 V30 A2 256GB microSDXC
- Lexar 667x V30 128GB microSDXC
- Lexar High Endurance 128GB U3 V30 microSDXC
- Samsung EVO U3 (Yellow) 64GB microSDXC
- Samsung EVO Plus U3 (Red) 64GB microSDXC
- Samsung EVO Plus U3 256GB microSDXC
- Netac 256GB U3 A1 microSDXC

## Footnotes

- **Footnotes**

1. Due to local policy and regulation restrictions, the 5.8 GHz frequency band is currently banned in certain countries, including but not limited to Japan, Russia, Israel, Ukraine, and Kazakhstan. Please use the 2.4 GHz frequency band when operating in these locations. Always check local rules and regulations before use, as they may change over time.

2. Maximum flight range specification is a proxy for radio link strength and resilience, not aircraft battery capability. It only refers to the maximum, one-way flight distance. Data was measured in an open environment without interference. Please pay attention to the return prompt on the DJI Fly app during actual flight. Refer to the following applicable standard in different countries and regions:

FCC: United States, Australia, Canada, Hong Kong, Taiwan, Chile, Colombia, Puerto Rico, and other regions;

SRRC: Ma  
CE: UK, Ru  
New Zeala  
MIC: Japa

erland, Macau,



For any query / clarification

Please contact - [hindinnovations@gmail.com](mailto:hindinnovations@gmail.com)

Girish soni - 9315007143