

ZENMUSE X7



GENERAL

Name

Zenmuse X7

Dimensions

151 × 108 × 132 mm

Weight

449 g

CAMERA

Sensor

Sensor Size (Still): 23.5×15.7 mm

Sensor Size (Max video recording area):

23.5×12.5 mm

Effective Pixels: 24 MP

Supported Lenses

DJI DL-S 16mm F2.8 ND ASPH (with lens hood and balancing ring/filter)

DJI DL 24mm F2.8 LS ASPH (with lens hood and balancing ring/filter)

DJI DL 35mm F2.8 LS ASPH (with lens hood and balancing ring/filter)

DJI DL 50mm F2.8 LS ASPH (with lens hood and balancing ring/filter)

Supported Micro SD/SSD Cards

MicroSD: Class 10 or UHS-1 rating with a writing speed of 15 MB/s required; Max capacity: 128 GB

SSD: DJI CINESSD

Photo Sizes

3:2 (6016 × 4008)

16:9 (6016 × 3376)

4:3 (5216 × 3912)

Photo Formats

DJI CINESSD: DNG

Micro SD: DNG, JPEG, DNG+JPEG

Operation Modes

Capture, Record, Playback

Photo Formats

DJI CINESSD: DNG

Micro SD: DNG, JPEG, DNG+JPEG

Operation Modes

Capture, Record, Playback

Still Photography Modes

Micro SD: Single Shot, Burst Shooting (3/5/7/10 shots), Auto Exposure Bracketing (3/5 bracketed shots at 0.7 EV bias), Interval SSD: RAW Burst (3/5/7/10/14/∞ frames), up to 20 fps when using RAW Burst (exact quantity is determined by storage card capacity and battery power level)

Shutter Speed

Electronic Shutter Speed: 1/8000 – 8s

Mechanical Shutter Speed: 1/1000 – 8s (DJI DL-S 16mm F2.8 ND ASPH not supported)

ISO Range

Photo: 100 – 25600

Video: 100 – 1600 (EI mode on); 100 – 6400 (EI mode off)

GRIDX
metering and control

ZENMUSE X7



VIDEO

Video Formats

CINESSD: CinemaDNG, ProRes

Micro SD: MOV, MP4

Video Resolution

Aspect Ratio 17:9

CinemaDNG

6K: 6016×3200, 23.976p, 14-bit

6K: 6016×3200, 24/25/29.97/30p, 12-bit

5.4K: 5440×2880, 23.976/24p, 14-bit

4K DCI: 4096×2160, 23.976p, 14-bit

4K DCI: 4096×2160, 24/25/29.97/30/47.95/48p,
12-bit

3.9K: 3944×2088, 50/59.94p, 12-bit

ProRes RAW

6K: 6016×3200, 23.976p, 14-bit

6K: 6016×3200, 24/25/29.97/30p, 12-bit

5.4K: 5440×2880, 23.976/24p, 14-bit

4K DCI: 4096×2160, 47.95/48p, 12-bit

ProRes RAW HQ

6K: 6016×3200, 23.976p, 14-bit

ProRes

4K DCI: 4096×2160, 23.976/24/25/29.97/30p, 10-
bit, HQ

2K: 2048×1080, 47.95/50/59.94p, 10-bit, HQ/XQ
H.264

4K DCI: 4096×2160, 24/25/30/48/50/59.94p
H.265

4K DCI: 4096×2160, 24/25/30p

HD: 1280×720, 24/25/30/48/50/59.94p

Aspect Ratio 16:9

CinemaDNG

6K: 5760×3240, 23.976p, 14-bit

6K: 5760×3240, 24/25/29.97/30p, 12-bit

5.1K: 5120×2880, 23.976/24p, 14-bit

4K Ultra HD: 3840×2160, 23.976p, 14-bit 4K Ultra

HD: 3840×2160, 24/25/29.97/30/47.95/48p, 12-
bit

3.7K: 3712×2088, 50/59.94, 12-bit

ProRes RAW

6K: 5760×3240, 23.976p, 14-bit

6K: 5760×3240, 24/25/29.97/30p, 12-bit

5.1K: 5120×2880, 23.976/24p, 14-bit

4K Ultra HD: 3840×2160, 47.95/48p, 12-bit

ProRes RAW HQ

6K: 5760×3240, 23.976p, 14-bit

ProRes

4K Ultra HD: 3840×2160, 23.976/24/25/29.97p,
10-bit, HQ/XQ

2.7K: 2704×1520, 47.95/50/59.94p, 10-bit, HQ

FHD: 1920×1080, 47.95/50/59.94p, 10-bit, HQ/XQ
H.264

4K Ultra HD: 3840×2160, 24/25/30/48/50/59.94p

2.7K: 2720×1530, 24/25/30/48/50/59.94p

FHD: 1920×1080, 24/25/30/48/50/59.94p

HD: 1280×720, 24/25/30/48/50/59.94p

H.265

4K Ultra HD: 3840×2160, 24/25/30p

2.7K: 2720×1530, 24/25/30/48/50/59.94p

FHD: 1920×1080, 24/25/30/48/50/59.94p

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VIDEO

Aspect Ratio 2.44:1

CinemaDNG

5.2K: 5280×2160, 23.976p, 14-bit

5.2K: 5280×2160, 24/25/29.97/30/47.95/48p, 12-bit

ProRes

5.2K: 5280×2160, 23.976/24/25/29.97/30p, 10-bit, HQ

H.264/H.265

4K Ultra HD: 3840×1572, 30p

(FOV will be narrower when shooting at a high frame rate. For more information, please refer to the Zenmuse X7 User Manual.)

GIMBAL

Angular Vibration Range

±0.005°

Mount

Detachable

Controllable Range

Tilt: +40° to -125°; Pan: ±300°; Roll: ±20°

Mechanical Range

Tilt: +50° to -130°; Pan: ±330°; Roll: +90° to -50°

Max Controllable Speed

Tilt: 180°/s; Roll: 180°/s; Pan: 360°/s

CAMERA FEATURES

Exposure Mode

Auto, Manual, Shutter Priority, Aperture Priority

Exposure Compensation

±3.0 (3 stops of light)

Metering

Center-Weighted Metering, Spot Metering (12 × 8 area selection)

AE Lock

Supported

White Balance

Auto, Sunny, Cloudy, Incandescent, Neon, Custom (2000 K – 10000 K)

Video Caption

Supported (AVC/HEVC)

PAL/NTSC

Supported

Ultrasonic Dust Removal

Supported

TEMPERATURE

Operating Temperature Range

-4 to 104° F (-20 to 40° C)

Storage Temperature Range-

4 to 140° F (-20 to 60° C)

GRIDX
metering and control