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- During an update, the aircraft will make a quick single beep continuously. The warning sound will then 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.

Specifications

General	
Product Name	Zenmuse X7
Dimensions	151 × 108 × 132 mm
Weight (Lens Excluded)	449 g
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	
Sensor	Sensor size (Still): 23.5×15.7mm Sensor size (Max video recording area): 23.5×12.5mm Effective Pixels: 24MP
Supported Lenses	DJI DL-S 16mm F2.8 ND ASPH DJI DL 24mm F2.8 LS ASPH DJI DL 35mm F2.8 LS ASPH DJI DL 50mm F2.8 LS ASPH
Supported MicroSD/SSD cards	MicroSD: Class 10 or UHS-1 rating with a writing speed of 15MB/s required; Max capacity: 64 GB (some 128 GB MicroSD cards) SSD: DJI CINESSD
Recommended MicroSD Card	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
Photo Size	3:2 4:3 16:9

Photo Formats	DJI CINESSD: DNG MicroSD: DNG, JPEG, DNG+JPEG
Operation Modes	Capture, Record, Playback
Still Photography Modes	MicroSD: 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 20fps when using RAW burst, but the exact photo numbers is restricted 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)
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 \times 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
Center Points	None, Circle, Cross, Narrow Cross, Square (No Center Point), Square (w. Center Point), Square (w. Center Point), Bracket (No Center Point), Bracket (w. Center Point)
Grid	None, Grid Lines, Grid+Diagonals
Aspect Ratio Overlay	None, 2.39:1, 2.35:1, 1.85:1, customize
Focus Peaking Threshold	None, Low, Normal, High
ND Filter (16mm lens only)	Auto, Enable, Disable
Smart Arm LEDs	Off, Front LEDs Auto Turn Off, Turn Off Back LEDs, Turn Off Arm LEDs
Other	Histogram, Enable Color Waveform, Over Exposure Warning, Mechanical Shutter, Video Caption, AF Focus Assistant, MF Focus Assistance, Lens Profile, Calibration ¹ , Format SD Card, Format SSD Card, Reset Camera Settings.

¹ Manual lens calibration is required when used for the first time. Incorrect calibration will result in an inability to focus to infinity. Calibrate the camera in the camera settings page in the DJI GO 4 app.

Video

Video Codec

CINESSD: CinemaDNG, Apple ProRes 422 HQ, Apple ProRes 4444 XQ

MicroSD: H.264, H.265

Storage	FPS	Frame Ratio	Format	Resolution	Bitrate (Max) ²	Effective sensor size for imaging ³
CINESSD	23.976/ 24/29.97/ 30fps	17:9	CinemaDNG	6016×3200	4.44 Gbps/s	23.5×12.5 mm
			Apple ProRes 422 HQ	4096×2160	1.99 Gbps/s	
		16:9	CinemaDNG	5760×3240	4.29 Gbps/s	22.5×12.7 mm
			Apple ProRes 422 HQ	3840×2160	906.9 Mbps/s	
			Apple ProRes 4444 XQ	3840×2160	2.08 Gbps/s	
		2.44:1	Apple ProRes 422 HQ	5280×2160	1.27 Gbps/s	23.5×9.6 mm
	47.95/ 59.94fps	17:9	CinemaDNG	3944×2088	3.66 Gbps/s	15.4×8.2 mm
			Apple ProRes 422 HQ	2048×1080	512.9 Mbps/s	
			Apple ProRes 4444 XQ		1.15 Gbps/s	
		16:9	CinemaDNG	3712×2088	3.86 Gbps/s	14.5×8.2 mm
			Apple ProRes 422 HQ	2704×1520	847.2 Mbps/s	
			Apple ProRes 4444 XQ	1920×1080	448.7 Mbps/s	
MicroSD	23.976/ 24/29.97/ 30fps	17:9	H.264	4096×2160	/	23.5×12.5 mm
			H.265		102.2 Mbps/s	
		16:9	H.264	3840×2160	/	22.5×12.7 mm
				2720×1530	/	
				1920×1080	/	
			H.265	3840×2160	97.4 Mbps/s	
				2720×1530	/	
				1920×1080	/	
		2.44:1	H.264	3840×1572	100.6 Mbps/s	23.5×9.6 mm
			H.265		98.3 Mbps/s	
	47.95/ 59.94fps	17:9	H.264	4096×2160	100.8 Mbps/s	15.4×8.2 mm
		16:9	H.264	3840×2160	100.6 Mbps/s	14.5×8.2 mm
				2720×1530		
				1920×1080	80.4 Mbps/s	
			H.265	2720×1530	77.5 Mbps/s	
				1920×1080	65.1 Mbps/s	

² This table only offers the bitrate of the max FPS in each resolution of different video codecs.

³ For more details on FOV for different lenses, please go to P.11 [Lens Specifications](#).