# **DJI Inspire 2 Technical Information**

# Specifications

Aircraft		
Model	T650A	
Weight	7.58 lbs (3440 g, including two batteries, without gimbal and camera)	
Max Takeoff Weight	4250 g	
GPS Hovering Accuracy	Vertical: ±1.64 feet (0.5 m) or ±0.33 feet (0.1 m, Downward Vision System enabled) Horizontal: ±4.92 feet (1.5 m) or ±0.98 feet (0.3 m, Downward Vision System enabled)	
Max Angular Velocity	Pitch: 300°/s Yaw: 150°/s	
Max Tilt Angle	P-mode: 35° (Forward Vision System enabled: 25°); A-mode: 35°; S-mode: 40°	
Max Ascent Speed	P-mode/A-mode: 16.4 ft/s (5 m/s); S-mode: 19.7 ft/s (6 m/s)	
Max Descent Speed	Vertical: 13.1 ft/s (4 m/s); Tilt: 13.1-29.5 ft/s (4-9 m/s)	
Max Takeoff Sea Level	1.55 mi (2500 m); 3.1 mi (5000 m with specially-designed propeller)	
Max Wind Speed Resistance	10 m/s	
Max Flight Time	Approx. 25 min (with Zenmuse X5S); Approx. 23 min (with Zenmuse X7)	
Motor Model	DJI 3512	
Propeller Model	DJI 1550T	
Indoor Hovering	Enabled by default	
Operating Temperature	-4° to 104° F (-20° to 40° C)	
Diagonal Distance (propeller excluded)	23.8 inch (605 mm, Landing Mode)	
Max Speed	58 mph (94 kph)	
Gimbal and Camera (Optional, ta	ake the Zenmuse X5S for example)	
General		
Name	Zenmuse X5S	
Dimensions	140×98×132 mm	
Weight	Approx. 461 g( Including original lens, balancing ring, lens hood)	
Camera		
Supported Lens	DJI MFT 15mm/1.7 ASPH (With Balancing Ring and Lens Hood) Panasonic Lumix 15mm/1.7 (With Balancing Ring and Lens Hood) Panasonic Lumix 14-42mm/3.5-5.6 HD (With Balancing Ring)Olympus M.Zuiko 12mm/2.0 (With Balancing Ring) Olympus M.Zuiko 17mm/1.8 (With Balancing Ring) Olympus M.Zuiko 25mm/1.8 (With Balancing Ring) Olympus M.Zuiko 45mm/1.8 (With Balancing Ring) Olympus M.Zuiko 9-18mm/4.0-5.6 (With Balancing Ring)	
Sensors	CMOS, 4/3" Effective Pixels: 20.8MP	

Photo Resolutions		
H.264	FOV	72° (with DJI MFT 15mm/1.7 ASPH)
C4K: 4096×2160 23.976/24/25/29.97/47.95/50/59.94p @100Mbps 4K: 3840×2160 23.976/24/25/29.97p @100Mbps 3840×1572 23.976/24/25/29.97p @100Mbps 2.7K: 2720×1530 23.976/24/25/29.97p @60Mbps 47.95/50/59.94p @100Mbps FHD: 1920×1080 23.976/24/25/29.97p @60Mbps 47.95/50/59.94p @80Mbps 119.88p @100Mbps H.265 C4K: 4096×2160 23.976/24/25/29.97p @100Mbps 4K: 3840×2160, 3840×1572 23.976/24/25/29.97p @100Mbps 4K: 3840×2160, 3840×1572 23.976/24/25/29.97p @100Mbps 4K: 3840×2160, 3840×1572 23.976/24/25/29.97p @100Mbps 2.7K: 2720×1530 23.976/24/25/29.97p @50Mbps 47.95/50/59.94p @60Mbps FHD: 1920×1080 23.976/24/25/29.97p @50Mbps 47.95/50/59.94p @65Mbps 119.88p @100Mbps C-DNG RaW 5.2K: 5280×2972 23.976/24/25/29.97p, up to 4.2Gbps 4K: 4096×2160, 3840×2160 23.976/24/25/29.97p, up to 2.4Gbps 4K: 4096×2160, 3840×2160 50/59.94p, up to 4.0Gbps ProRes 5.2K: 5280×2972 23.976/24/25/29.97p, 422 HO @1.3Gbps 4K: 3840×2160 23.976/24/25/29.97p, 422 HO @1.3Gbps 4K: 3840×2160 23.976/24/25/29.97p, 424 HO @900Mbps 4K: 3840×2160 23.976/24/25/29.97p, 424 HO @000Mbps 4K: 3840×2160 23.976/24/25/29.97p, 4444 XQ @2.0Gbps  Photo Formats  Photo Formats  SSD: DNG Micro SD: DNG, JEPG, DNG+JEPG  Video Formats  Micro SD: Single shot, Burst shooting (3/5/7/10/14 frames), Auto Exposure Bracketing (3/5 bracketed frames at 0.7Ev bias), Interval SSD: RAW BURST (3/5/7/10/14/e frames)  Exposure Mode  Auto, Manual, Shutter Priority, Aperture Priority  Exposure Compensation  Auto, Manual, Shutter Priority, Aperture Priority  Exposure Compensation  Metering Mode  Center-weighted metering, Spot metering (area option 12×8)  AE Lock  Supported  Electronic Shutter Speed  8-1/8000s  White Balance  Union - 6400 (Video) 100 - 6400 (Video) 100 - 6400 (Video) 100 - 25600 (Stills)	Photo Resolutions	
Photo Formats  Micro SD: DNG, JEPG, DNG+JEPG  Video Formats  SSD: CinemaDNG, ProRes Micro SD: MOV, MP4  Operation Modes  Capture, Record, Playback  Micro SD: Single shot, Burst shooting (3/5/7/10/14 frames), Auto Exposure Bracketing (3/5 bracketed frames at 0.7EV bias), Interval SSD: RAW BURST (3/5/7/10/14/∞ frames)  Exposure Mode  Auto, Manual, Shutter Priority, Aperture Priority  Exposure Compensation  ### 43.0 (1/3 increments)  Metering Mode  Center-weighted metering, Spot metering (area option 12×8)  ### Auto, Supported  Electronic Shutter Speed  ### 8-1/8000s  White Balance  Custom (2000K–10000K)  ISO Range  ### 100 – 6400 (Video) 100 – 25600 (Stills)	Video Resolutions	C4K: 4096×2160 23.976/24/25/29.97/47.95/50/59.94p @100Mbps  4K: 3840×2160 23.976/24/25/29.97/47.95/50/59.94p @100Mbps  3840×1572 23.976/24/25/29.97p @100Mbps  2.7K: 2720×1530 23.976/24/25/29.97p @80Mbps  47.95/50/59.94p @100Mbps  FHD: 1920×1080 23.976/24/25/29.97p @60Mbps  47.95/50/59.94p @80Mbps 119.88p @100Mbps  H.265  C4K: 4096×2160 23.976/24/25/29.97p @100Mbps  4K: 3840×2160, 3840×1572 23.976/24/25/29.97p @100Mbps  2.7K: 2720×1530 23.976/24/25/29.97p @65Mbps  47.95/50/59.94p @80Mbps  FHD: 1920×1080 23.976/24/25/29.97p @50Mbps  47.95/50/59.94p @80Mbps  FHD: 1920×1080 23.976/24/25/29.97p @50Mbps  47.95/50/59.94p @65Mbps 119.88p @100Mbps  C-DNG RAW  5.2K: 5280×2972 23.976/24/25/29.97p, up to 4.2Gbps  4K: 4096×2160, 3840×2160 23.976/24/25/29.97p, up to 4.0Gbps ProRes  5.2K: 5280×2160 23.976/24/25/29.97p, 422 HQ @1.3Gbps  4K: 3840×2160 23.976/24/25/29.97p, 422 HQ @900Mbps
Video Formats  Micro SD: MOV, MP4  Operation Modes  Capture, Record, Playback  Micro SD: Single shot, Burst shooting (3/5/7/10/14 frames), Auto Exposure Bracketing (3/5 bracketed frames at 0.7EV bias), Interval SSD: RAW BURST (3/5/7/10/14/∞ frames)  Exposure Mode  Auto, Manual, Shutter Priority, Aperture Priority  Exposure Compensation  ±3.0 (1/3 increments)  Metering Mode  Center-weighted metering, Spot metering (area option 12×8)  AE Lock  Supported  Electronic Shutter Speed  8-1/8000s  White Balance  Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K–10000K)  ISO Range  100 – 6400 (Video) 100 – 25600 (Stills)	Photo Formats	
Micro SD: Single shot, Burst shooting (3/5/7/10/14 frames), Auto Exposure Bracketing (3/5 bracketed frames at 0.7EV bias), Interval SSD: RAW BURST (3/5/7/10/14/∞ frames)  Exposure Mode Auto, Manual, Shutter Priority, Aperture Priority  Exposure Compensation ±3.0 (1/3 increments)  Metering Mode Center-weighted metering, Spot metering (area option 12×8)  AE Lock Supported Electronic Shutter Speed 8-1/8000s  White Balance Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K−10000K)  ISO Range 100 − 6400 (Video) 100 − 25600 (Stills)	Video Formats	•
Still Photography Modes  Exposure Bracketing (3/5 bracketed frames at 0.7EV bias), Interval SSD: RAW BURST (3/5/7/10/14/∞ frames)  Exposure Mode  Auto, Manual, Shutter Priority, Aperture Priority  Exposure Compensation  ±3.0 (1/3 increments)  Metering Mode  Center-weighted metering, Spot metering (area option 12×8)  AE Lock  Supported  Electronic Shutter Speed  8-1/8000s  White Balance  Auto, Sunny, Cloudy, Incandescent, Neon  Custom (2000K–10000K)  ISO Range  100 – 6400 (Video)  100 – 25600 (Stills)	Operation Modes	Capture, Record, Playback
Exposure Compensation ±3.0 (1/3 increments)  Metering Mode Center-weighted metering, Spot metering (area option 12×8)  AE Lock Supported  Electronic Shutter Speed 8-1/8000s  White Balance Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K–10000K)  ISO Range 100 – 6400 (Video) 100 – 25600 (Stills)	Still Photography Modes	Exposure Bracketing (3/5 bracketed frames at 0.7EV bias), Interval
Metering Mode Center-weighted metering, Spot metering (area option 12×8)  AE Lock Supported  Electronic Shutter Speed 8-1/8000s  White Balance Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K–10000K)  ISO Range 100 – 6400 (Video) 100 – 25600 (Stills)	Exposure Mode	Auto, Manual, Shutter Priority, Aperture Priority
AE Lock Supported  Electronic Shutter Speed 8-1/8000s  White Balance Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K–10000K)  ISO Range 100 – 6400 (Video) 100 – 25600 (Stills)	Exposure Compensation	±3.0 (1/3 increments)
Electronic Shutter Speed  8-1/8000s  White Balance  Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K–10000K)  ISO Range  100 – 6400 (Video) 100 – 25600 (Stills)	Metering Mode	Center-weighted metering, Spot metering (area option 12×8)
White Balance Auto, Sunny, Cloudy, Incandescent, Neon Custom (2000K–10000K)  ISO Range 100 – 6400 (Video) 100 – 25600 (Stills)	AE Lock	Supported
White Balance Custom (2000K–10000K)  ISO Range 100 – 6400 (Video) 100 – 25600 (Stills)	Electronic Shutter Speed	8-1/8000s
ISO Range 100 – 25600 (Stills)	White Balance	
Video Captions Supported	ISO Range	
	Video Captions	Supported

PAL/NTSC         Supported           Environmental           Operating Temperature         14° to 104°F (-10 to 40°C)           Storage Temperature         -4° to 140° F (-20 to 60 °C)           Gimbal         40.01°           Angular Vibration Range         ±0.01°           Controllable Range         Pitch: -130° to +40°; Roll: ±20°; Pan: ±320°           Max Controllable Speed         Pitch: 140° to +50°; Roll: -50° to +90°; Pan: ±330°           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller         Model           Model         GL6D10A           Operating Frequency         2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           2.5 miles (4 km, SRRC)         5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           5.8 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature	Anti-Flicker	Auto, 50Hz, 60Hz	
Environmental  Operating Temperature			
Operating Temperature         14° to 104°F (-10 to 40°C)           Storage Temperature         -4° to 140°F (-20 to 60 °C)           Gimbal         40° to 140°F (-20 to 60 °C)           Angular Vibration Range         ±0.01°           Controllable Range         Pitch: -130° to +40°; Roll: ±20°; Pan: ±320°           Max Controllable Speed         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller         CL6D10A           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           La GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           S 6 Hz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           EIRP         2.4 GHz: 28 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)		Supported	
Storage Temperature         -4° to 140° F (-20 to 60 °C)           Gimbal         40.01°           Angular Vibration Range         ±0.01°           Controllable Range         Pitch: -130° to +40°; Roll: ±20°; Pan: ±320°           Max Controllable Speed         Pitch: -180°/s: Roll: 180°/s: Pan: 270°/s           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller         Model           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           EIRP         2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage T		14° to 104°E (-10 to 40°C)	
Glimbal         ±0.01°           Angular Vibration Range         ±0.01°           Controllable Range         Pitch: -130° to +40°; Roll: ±20°; Pan: ±320°           Max Controllable Speed         Pitch: 180°/s; Roll: 180°/s; Pan: 270°/s           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller         Model           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (6 km, SRRC)           EIRP         2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         -8° to 104° F (0° to 40° C)           Battery <td>, , ,</td> <td colspan="2"></td>	, , ,		
Angular Vibration Range         ±0.01°           Controllable Range         Pitch: -130° to +40°; Roll: ±20°; Pan: ±320°           Max Controllable Speed         Pitch: 180°/s; Roll: 180°/s; Pan: 270°/s           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller         C66D10A           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           EIRP         2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         -8° to 104° F (0° to 40° C)           Battery         6000 mAh 2S LiPo <t< td=""><td>- ·</td><td colspan="2">-4 (U 14U F (-2U (U 0U °C)</td></t<>	- ·	-4 (U 14U F (-2U (U 0U °C)	
Controllable Range         Pitch: -130° to +40°; Roll: ±20°; Pan: ±320°           Max Controllable Speed         Pitch: 180°/s; Roll: 180°/s; Roll: 20°; Pan: ±330°           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller         Model           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           Land Transmitting Distance         2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           Sa GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (6 km, SRRC)           5.8 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         -6° to 104° F (0° to 40° C)           Battery         600		.0.010	
Max Controllable Speed         Pitch: 180°/s; Roll: 180°/s; Pan:270°/s           Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           Max Transmitting Distance         2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           EIRP         2.4 GHz: 28 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         32° to 104° F (0° to 40° C)           Battery         6000 mAh 2S LiPo           USB Supply Power         iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2			
Interface Type         DGC2.0           Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           Wax Transmitting Distance         2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           EIRP         2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         32° to 104° F (-20° to 40° C)           Battery         6000 mAh 2S LiPo           USB Supply Power         iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)           Charger           Model         IN2C180           Voltage         26.1 V           Rated Power         1	_		
Mechanical Range         Pitch: -140° to +50°; Roll: -50° to +90°; Pan: ±330°           Remote Controller           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           Max Transmitting Distance         2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC)           S.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)           EIRP         2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         -4° to 104° F (-20° to 40° C)           Battery         6000 mAh 2S LiPo           USB Supply Power         iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)           Charger         Model         IN2C180           Voltage         26.1 V           Ra			
Remote Controller           Model         GL6D10A           Operating Frequency         2.400-2.483 GHz; 5.725-5.825 GHz           Max Transmitting Distance         2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (5 km, SRRC)           EIRP         2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)           Video Output Ports         USB, HDMI           Power Supply         Built-in battery           Charging         DJI charger           Dual User Capability         Primary-and-Secondary connection           Mobile Device Holder         Tablet or Smart Phone           Max Mobile Device Width         170 mm           Output Power         9W (Without supplying power to smart device)           Operating Temperature         -4° to 104° F (-20° to 40° C)           Storage Temperature         Less than 3 months: -4° to 113° F (-20° to 45° C)           More than 3 months: 72° to 82° F (22° to 28° C)           Charging Temperature         32° to 104° F (0° to 40° C)           Battery         6000 mAh 2S LiPo           USB Supply Power         iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)           Charger         Model           Model         IN2C180           Voltage         26.1 V           Rated Power         Int			
Model GL6D10A Operating Frequency 2.400-2.483 GHz; 5.725-5.825 GHz  2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)  EIRP 2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)  Video Output Ports USB, HDMI Power Supply Built-in battery  Charging DJI charger  Dual User Capability Primary-and-Secondary connection  Mobile Device Holder Tablet or Smart Phone  Max Mobile Device Width 170 mm  Output Power 9W (Without supplying power to smart device)  Operating Temperature -4° to 104° F (-20° to 40° C)  Storage Temperature 4-0° to 104° F (-20° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power 10S: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power Intelligent Flight Battery  Intelligent Flight Battery	<u> </u>	Pitch: -140° to +50°; Roii: -50° to +90°; Pan: ±330°	
Operating Frequency 2.400-2.483 GHz; 5.725-5.825 GHz  2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC) 5.8 GHz: 2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)  Video Output Ports USB, HDMI Power Supply Built-in battery Charging DJI charger Dual User Capability Primary-and-Secondary connection Mobile Device Holder Tablet or Smart Phone Max Mobile Device Width 170 mm Output Power 9W (Without supplying power to smart device) Operating Temperature -4° to 104° F (-20° to 40° C) Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: -2° to 82° F (22° to 28° C) Charging Temperature 32° to 104° F (0° to 40° C) Battery 6000 mAh 2S LiPo USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max) Charger Model IN2C180 Voltage 26.1 V Rated Power Battery (Standard) Name Intelligent Flight Battery		01.0040.4	
Max Transmitting Distance  2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)  EIRP  2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)  Video Output Ports  USB, HDMI  Power Supply  Built-in battery  Charging  DJI charger  Dual User Capability  Primary-and-Secondary connection  Mobile Device Holder  Tablet or Smart Phone  Max Mobile Device Width  170 mm  Output Power  9W (Without supplying power to smart device)  Operating Temperature  4° to 104° F (-20° to 40° C)  Storage Temperature  32° to 104° F (-20° to 40° C)  Battery  6000 mAh 2S LiPo  USB Supply Power  iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model  IN2C180  Voltage  26.1 V  Rated Power  Intelligent Flight Battery			
Max Transmitting Distance  2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC) 5.8 GHz: 28 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC) Video Output Ports  USB, HDMI  Power Supply  Built-in battery  Charging  DJI charger  Dual User Capability  Primary-and-Secondary connection  Mobile Device Holder  Tablet or Smart Phone  Max Mobile Device Width  170 mm  Output Power  9W (Without supplying power to smart device)  Operating Temperature  4° to 104° F (-20° to 40° C)  Storage Temperature  Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature  32° to 104° F (0° to 40° C)  Battery  6000 mAh 2S LiPo  USB Supply Power  6000 mAh 2S LiPo  USB Supply Power  Model  IN2C180  Voltage  26.1 V  Rated Power  Intelligent Flight Battery  Intelligent Flight Battery	Operating Frequency	,	
FIRP  5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)  Video Output Ports  USB, HDMI  Power Supply  Built-in battery  Charging  DJI charger  Dual User Capability  Primary-and-Secondary connection  Mobile Device Holder  Tablet or Smart Phone  Max Mobile Device Width  170 mm  Output Power  9W (Without supplying power to smart device)  Operating Temperature  -4° to 104° F (-20° to 40° C)  Storage Temperature  Less than 3 months: -4° to 113° F (-20° to 45° C)  More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature  32° to 104° F (0° to 40° C)  Battery  6000 mAh 2S LiPo  USB Supply Power  iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model  IN2C180  Voltage  26.1 V  Rated Power  Battery (Standard)  Name  Intelligent Flight Battery	Max Transmitting Distance	2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE);	
Power Supply  Built-in battery  Charging  Dull charger  Dual User Capability  Primary-and-Secondary connection  Mobile Device Holder  Tablet or Smart Phone  Max Mobile Device Width  170 mm  Output Power  9W (Without supplying power to smart device)  Operating Temperature  4° to 104° F (-20° to 40° C)  Storage Temperature  Less than 3 months: -4° to 113° F (-20° to 45° C)  More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature  32° to 104° F (0° to 40° C)  Battery  6000 mAh 2S LiPo  USB Supply Power  iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model  IN2C180  Voltage  26.1 V  Rated Power  180 W  Battery (Standard)  Name  Intelligent Flight Battery	EIRP		
Charging DJI charger  Dual User Capability Primary-and-Secondary connection  Mobile Device Holder Tablet or Smart Phone  Max Mobile Device Width 170 mm  Output Power 9W (Without supplying power to smart device)  Operating Temperature -4° to 104° F (-20° to 40° C)  Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C)  More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature 32° to 104° F (0° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Video Output Ports	USB, HDMI	
Dual User Capability Primary-and-Secondary connection  Mobile Device Holder Tablet or Smart Phone  Max Mobile Device Width 170 mm  Output Power 9W (Without supplying power to smart device)  Operating Temperature -4° to 104° F (-20° to 40° C)  Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C)  More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature 32° to 104° F (0° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Power Supply	Built-in battery	
Mobile Device Holder  Max Mobile Device Width  To mm  Output Power  9W (Without supplying power to smart device)  Operating Temperature  -4° to 104° F (-20° to 40° C)  Storage Temperature  Less than 3 months: -4° to 113° F (-20° to 45° C)  More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature  32° to 104° F (0° to 40° C)  Battery  6000 mAh 2S LiPo  USB Supply Power  iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model  IN2C180  Voltage  26.1 V  Rated Power  180 W  Battery (Standard)  Name  Intelligent Flight Battery	Charging	DJI charger	
Max Mobile Device Width 170 mm  Output Power 9W (Without supplying power to smart device)  Operating Temperature -4° to 104° F (-20° to 40° C)  Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C)  More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature 32° to 104° F (0° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Dual User Capability	Primary-and-Secondary connection	
Output Power 9W (Without supplying power to smart device)  Operating Temperature -4° to 104° F (-20° to 40° C)  Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: -72° to 82° F (22° to 28° C)  Charging Temperature 32° to 104° F (0° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Mobile Device Holder	Tablet or Smart Phone	
Operating Temperature -4° to 104° F (-20° to 40° C) Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature 32° to 104° F (0° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Max Mobile Device Width	170 mm	
Operating Temperature -4° to 104° F (-20° to 40° C) Storage Temperature Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature 32° to 104° F (0° to 40° C)  Battery 6000 mAh 2S LiPo  USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Output Power	9W (Without supplying power to smart device)	
Storage Temperature  Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)  Charging Temperature  32° to 104° F (0° to 40° C)  Battery  6000 mAh 2S LiPo  USB Supply Power  iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model  IN2C180  Voltage  26.1 V  Rated Power  180 W  Battery (Standard)  Name  Intelligent Flight Battery		-4° to 104° F (-20° to 40° C)	
Battery 6000 mAh 2S LiPo USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max) Charger Model IN2C180 Voltage 26.1 V Rated Power 180 W Battery (Standard) Name Intelligent Flight Battery	Storage Temperature		
USB Supply Power iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)  Charger  Model IN2C180  Voltage 26.1 V  Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Charging Temperature	32° to 104° F (0° to 40° C)	
Charger           Model         IN2C180           Voltage         26.1 V           Rated Power         180 W           Battery (Standard)           Name         Intelligent Flight Battery	Battery	6000 mAh 2S LiPo	
Charger           Model         IN2C180           Voltage         26.1 V           Rated Power         180 W           Battery (Standard)           Name         Intelligent Flight Battery	USB Supply Power	iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)	
Voltage 26.1 V Rated Power 180 W Battery (Standard) Name Intelligent Flight Battery	Charger		
Rated Power 180 W  Battery (Standard)  Name Intelligent Flight Battery	Model	IN2C180	
Battery (Standard) Name Intelligent Flight Battery	Voltage	26.1 V	
Name Intelligent Flight Battery	Rated Power	180 W	
	Battery (Standard)		
	Name	Intelligent Flight Battery	
Model TB50-4280mAh-22.8V	Model	TB50-4280mAh-22.8V	
Capacity 4280 mAh	Capacity	4280 mAh	

Voltage	22.8 V
Battery Type	6S LiPo
Energy	97.58 Wh
Net Weight	515 g
Operating Temperature	-4° to 104° F (-20° to 40° C)
Storage Temperature	Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)
Charging Temperature	41° to 104° F (5° to 40° C)
Max Charging Power	180 W
Charging Hub (Model: IN2CH)	
Input Voltage	26.1 V
Input Current	6.9 A
Downward Vision System	
Velocity Range	<32.8 ft/s (10 m/s) at height of 6.56 feet (2 m)
Altitude Range	<32.8 feet (10 m)
Operating Range	<32.8 feet (10 m)
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Ultrasonic Sensor Operating Range	0.33-16.4 feet (10-500 cm)
Ultrasonic Sensor Operating Environment	Non-absorbing material, rigid surface (thick indoor carpeting will reduce performance)
Forward Vision System	
Obstacle Sensing Range	2.3-98.4 feet (0.7-30 m)
FOV	Horizontal: 60°; Vertical: 54°
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Upward Infrared Sensing System	
Obstacle Sensing Range	0-16.4 feet (0-5 m)
FOV	±5°
Operating Environment	Large, diffuse and reflective obstacles (reflectivity >10%)

## Aircraft Status Indicator Description

Normal	
Red, Green and Yellow Flash Alternatively	Power on and self-check
© : Green and Yellow Flash Alternatively	Aircraft warming up
⊚ ····· Green Flashes Slowly	Safe to Fly (P mode with GPS and Vision System)
©X2 ····· Green Flashes Twice	Safe to Fly (P mode with Vision System but without GPS)
∵ ······ Yellow Flashes Slowly	Safe to Fly (A mode but No GPS and Vision System)

Warning	
: Fast Yellow Flashing	Remote Controller Signal Lost
® Slow Red Flashing	Low Battery Warning
Fast Red Flashing	Critical Low Battery Warning
® · · · · · Red Flashing Alternatively	IMU Error
® — Solid Red	Critical Error
Red and Yellow Flash Alternatively	Compass Calibration Required

## Upgrading the Firmware

Use DJI Assistant 2 or the DJI GO 4 app to upgrade aircraft and Remote Controller.

### Upgrading the Aircraft Firmware

#### 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.
- 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.

## Upgrading the Remote Controller Firmware

#### Method 1: Using the DJI GO 4 App

Power on the remote controller and connect it with the DJI GO 4 app. A prompt will appear if a new firmware upgrade is available. To start upgrading, connect a mobile device to the Internet and follow the on-screen instructions.



- The firmware update will take around 15 minutes. It is normal that the gimbal will go limp, the aircraft status indicator blinks abnormally and the aircraft reboots. Wait patiently until the update is complete.
- Ensure the computer has access to the Internet.
- Ensure the battery level is adequate for the remote controller.
- Do not disconnect the aircraft from the computer during firmware upgrade.

## After-Sales Information

Visit the following pages to learn more about After-sales policy and warranty information:

- 1. After-sales Policy: http://www.dji.com/service
- 2. Refund Policy: http://www.dji.com/service/refund-return
- 3. Paid Repair Service: http://www.dji.com/service/repair-service
- 4. Warranty Service: <a href="http://www.dji.com/service/warranty-service">http://www.dji.com/service/warranty-service</a>



This content is subject to change.

# Download the latest version from www.dji.com/inspire-2





