

INSPIRE 2 X7 DRONE

Light Lifter UAS

Drones offer unique aerial angles with high production value and relatively little setup time.

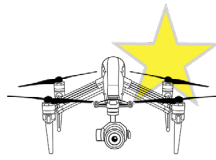
The DJI Inspire 2 Light Lifter UAS is capable of up to 23 minutes of flight time. It is fast, nimble, and highly maneuverable, making it perfect for an action/stunt unit wanting high-risk, low, close, and fast shots.

The Inspire 2 is capable of video transmission at distances up to 4 miles, with easy integration into all film and broadcast workflows. It pairs with the Zenmuse X7 Gimbal/Camera, which has a Super 35 sensor that captures 6K Cinema DNG and ProRes formats. The lens package includes 9.5mm, 16mm, 24mm, 35mm, and 50mm prime lenses.

SPECIFICATIONS

Dimensions

From propellers' tip to tip, the aircraft measures 32.5 inches (82.5 cm) long by 32.4 inches (82.3 cm) wide, and 12.5 inches (31.75 cm) tall.



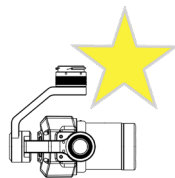
Weights

The aircraft's empty weight is 5.31 lbs (2.4 kgs). Batteries weigh 2.27 lbs (1 kgs), and can carry up to 1.24 lbs (0.6 kgs) payload. Max takeoff weight is 8.82 lbs (4 kgs).



Ranges

Depending on mission activity, the aircraft flight time ranges from 17-23 minutes at max takeoff weight. It can reach a max cruise speed of 50 kts (58 mph). Its visual line of sight flight range is 2-4 miles. It can fly in up to 19 kts (22 mph) wind.



Payload

The payload is the Zenmuse X7 gimbal/camera, which features a Super-35mm frame sensor capable of capturing up to 6K resolution in the CinemaDNG and ProRes encoding formats, with 9.5, 16mm, 24mm, 35mm, and 50mm lenses.

CREATIVITY IN REACH®

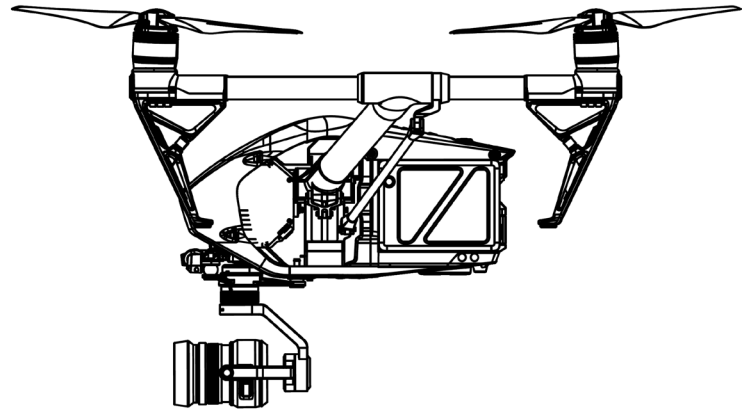
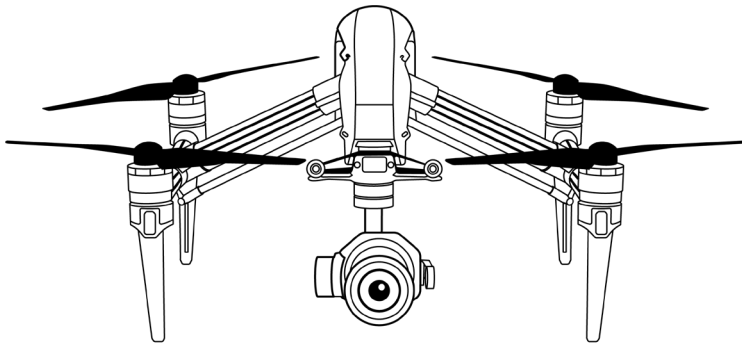
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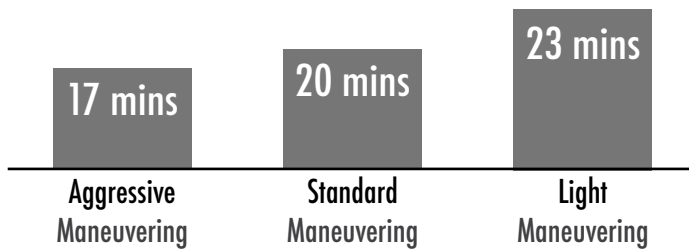
marketing@procamrentals.com



INSPIRE 2 DRONE



FLIGHT TIMES



WEIGHTS

Aircraft Empty Weight	5.31 lbs
Power (2x 4280 mAh battery)	2.27 lbs
Payload* (Gimbal/Camera/Lens/Accessories)	1.24 lbs

* Weight shown is based on manufacturer's maximum takeoff weight. Within the United States, FAA regulations restrict all UAS flight operations from exceeding 55 total pounds.

DIMENSIONS

Length	32.51 in
Width	32.4 in
Height	12.48 in

PERFORMANCE & LIMITATIONS

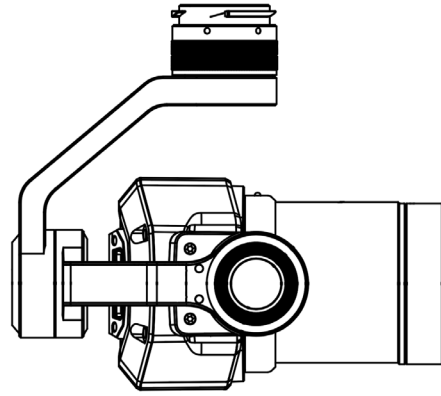
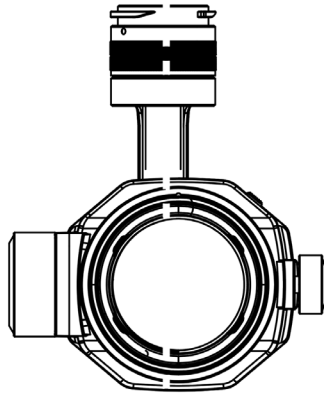
Cruise Speed	50 kts / 58 mph
Do Not Exceed Speed	74 kts / 85 mph
Rate of Climb/Descent	1,182 ft / min
Minimum Landing Zone Area	6 sq ft
Minimum Operating Temperature	-4 deg F
Maximum Operating Temperature	104 deg F
Maximum Range	2-4 miles VLOS
Maximum Endurance	25 mins
Maximum Ceiling	16,368 ft MSL
Maximum Wind Resistance	19 kts / 22 mph
Maximum Takeoff Weight	8.82 lbs
Maximum Pitch Angular Velocity	300 deg / sec
Maximum Yaw Angular Velocity	150 deg / sec
Maximum Tilt Angle	40 deg

FLIGHT CREW REQUIREMENTS

1. Remote Pilot In Command
2. Aerial Camera Operator

* Our flight crews are trained, certified, and endorsed for each position.

ZENMUSE X7 SENSOR



SUPER 35MM SENSOR

Sensor Size (Photos)	23.5x15.7mm
Sensor Size (Max Video Recording Area)	23.5x12.5mm
Effective Pixels	24 MP
Electronic Shutter Speed	1/8000 - 8s
Mechanical Shutter Speed	1/1000 - 8s (not 16mm)
ISO Range (Photos)	100 - 25600
ISO Range (Videos)	100 - 1600 (EI Mode on) 100 - 6400 (EI mode off)
Exposure Compensation	± 3.0 (3 stops of light)

ASPHERICAL LENSES

Focal Length	16mm	24mm	35mm	50mm
35mm Photos	24mm	36mm	53mm	75mm
Aperture Range	F2.8 - F16	F2.8 - F16	F2.8 - F16	F2.8 - F16
FOV (3:2)	72.6x52.3°	52.2x36.2°	37.1x25.3°	26.5x17.9°
FOV (17:9)	72.6x42.7°	52.2x29.2°	37.1x20.3°	26.5x14.3°
	51.4x28.8°	35.6x19.4°	24.8x13.4°	17.5x9.4°
FOV (16:9)	70.2x43.3°	50.2x29.6°	35.6x20.6°	25.4x14.5°
	48.8x28.8°	33.6x19.4°	23.4x13.4°	16.5x9.4°
FOV (2.44:1)	72.6x33.4°	52.2x22.6°	37.1x15.6°	26.5x11.0°
Close Focus	1' 4"	2' 2"	2' 10"	3' 1"
Int. Filtration	ND 4	none	none	none
Ext. Filtration	46mm ND 1.2, ND 2.1, UV/IR Cut, UV MC Opt Flat			



VIDEO SPECIFICATIONS

FPS	Aspect Ratio	Format	Resolution	Max Bitrate	Effective Sensor Size	
23.976 24 29.97 30	17:9	Cinema DNG	6016x3200	4.44 Gb/s	23.5x12.5mm	
		ProRes 422 HQ	4096x2160	1.99 Gb/s		
	16:9	Cinema DNG	5760x3240	4.29 Gb/s	23.5x12.7mm	
		ProRes 422 HQ	3840x2160	1.89 Gb/s		
ProRes 4444 XQ		3840x2160	906.9 Mb/s			
2.44:1	ProRes 422 HQ	5280x2160	1.27 Gb/s	23.5x9.6mm		
47.95 59.94	17:9	Cinema DNG	3944x2088	3.66 Gb/s	15.4x8.2mm	
		ProRes 422 HQ	2048x1080	512.9 Mb/s		
		ProRes 4444 XQ		1.15 Gb/s		
	16:9	Cinema DNG	3712x2088	3.86 Gb/s	14.5x8.2mm	
		ProRes 422 HQ	2704x1520	847.2 Mb/s		
		ProRes 4444 XQ	1920x1080	448.7 Mb/s		
23.976 24 29.97 30	17:9	H.264	4096x2160	/	23.5x12.5mm	
		H.265		102.2 Mb/s		
	16:9	H.264	3840x2160	/	22.5x12.7mm	
			2720x1530	/		
			1920x1080	/		
		H.265	3840x2160	97.4 Mb/s		
			2720x1530	/		
			1920x1080	/		
	2.44:1	H.264	3840x1572	100.6 Mb/s	23.5x9.6mm	
		H.265		98.3 Mb/s		
	47.95 59.94	17:9	H.264	4096x2160	100.8 Mb/s	15.4x8.2mm
			H.264	3840x2160	100.6 Mb/s	
2720x1530				80.4 Mb/s		
16:9		H.264	1920x1080	80.4 Mb/s		
			2720x1530	77.5 Mb/s		
		H.265	1920x1080	65.1 Mb/s		

RECORD TIMES

License Key	Video Format	Resolution	Bit	Frame Rate/fps	Recording Duration*
CinemaDNG License Key	CinemaDNG	5280x2970	12	23.976/24/25/29.97	8Min @29.97fps
		4096x2160	10	50/59.94	9Min @59.94fps
		4096x2160	12	23.976/24/25/29.97	15Min @29.97fps
		4096x2160	12	47.952	10Min @47.952fps
		3840x2160	10	50/59.94	9Min @59.94fps
		3840x2160	12	23.976/24/25/29.97	16Min @29.97fps
		3840x2160	12	47.952	10Min @47.952fps
Apple ProRes License Key	Apple ProRes 422HQ	3840x2160	/	23.976/24/25/29.97	36Min @29.97fps
		5280x2160	/	23.976/24/25/29.97	26Min @29.97fps
	Apple ProRes 4444XQ (no alpha)	3840x2160	/	23.976/24/25/29.97	16Min @29.97fps

* Calculated by average bitrate, actual recording duration may vary