



FLIR Aerial Commercial Building Inspector Kit w/out iPad (9 Hz)

P/N: 76504-0406

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	- Vertical: 0.5 m (1.6 ft.) - Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	- Pitch: 300°/s - Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTL mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	–10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable

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Gimbal (Zenmuse XT)	
Controllable range	- Tilt: +35° to -90° - Pan: ±320° - Roll: ±15°
Mechanical range	- Tilt: +45° to -135° - Pan: ±320° - Roll: ±45°
Maximum controllable speed	120°/s
Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	- Static: 9 W - In motion: 11 W
Operating current	- Station: 750 mA - Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	- Pitch: -90° to +30° - Pan: ±320°
Mechanical range	- Pitch: -125° to +45° - Pan: ±330°
Max. controllable speed	- Pitch: 120°/s - Pan: 180°/s
Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



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Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	• 100–3200 (video) • 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"
Lens	• 20 mm (35 mm format equivalent) f/2.8 focus at ∞ • 9 elements in 9 groups • Anti-distortion
Still photography modes	• Single shoot • Burst shooting: 3/5/7 frames • Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias • Time-lapse
Video recording modes	• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30 • FHD: 1920x1080p24/25/30/48/50/60 • HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	• FAT32/exFAT • Photo: JPEG, DNG • Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	• Micro SD • Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)
Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes
Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2×, 4×, 8×
Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°



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Lens model	
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)
Environmental	
Operating temperature range	−10 to +40°C (+14 to +104°F)
Non-operating temperature range	−30 to +70°C (−22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5–95%
Certifications	
Compliance	http://www.dji.com/euro-compliance
Remote controller	
Name	C1
Operating frequency	• 922.7–927.7 MHz (Japan only) • 5.725–5.825 GHz • 2.400–2.483 GHz
Transmitting distance	• Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliant • Up to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	• 10 dBm @ 900 m • 13 dBm @ 5.8 G • 20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	−10 to +40°C (+14 to +104°F)
Storage temperature range	• Less than 3 months: −20 to +45°C (−4 to 113°F) • More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S
Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W



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Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	- Less than 3 months: -20 to +45°C (-4 to 113°F) - More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	- Less than 3 months: -20 to +45°C (-4 to 113°F) - More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)



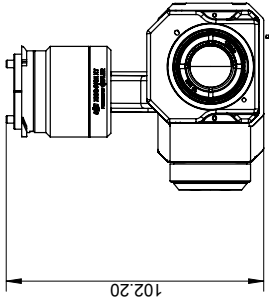
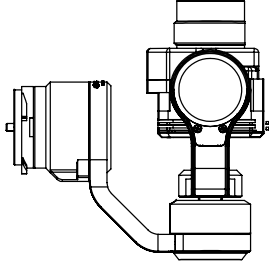
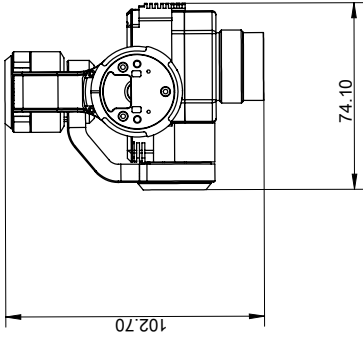
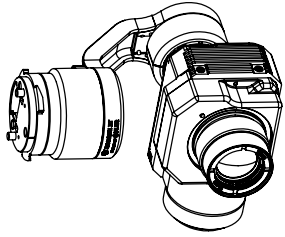
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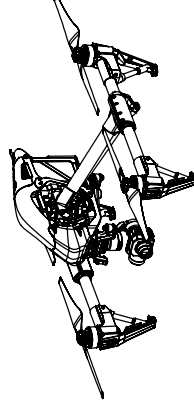
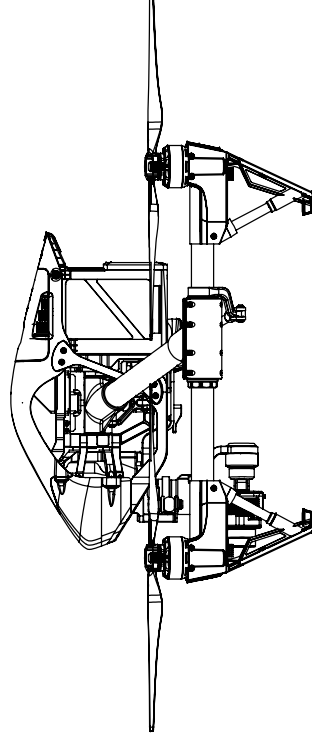
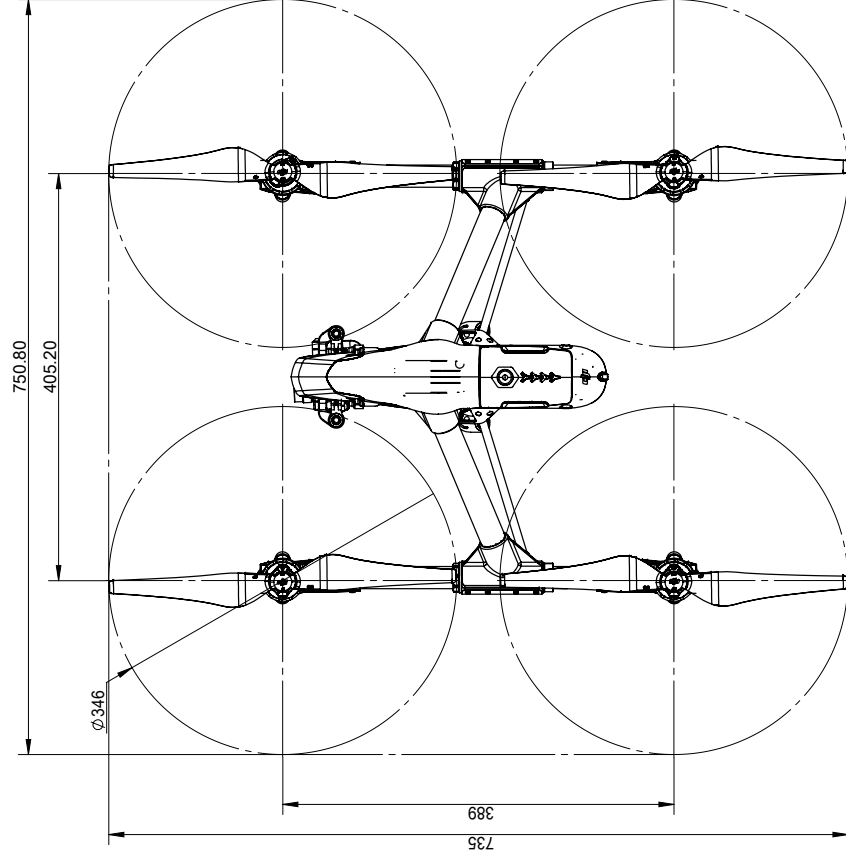
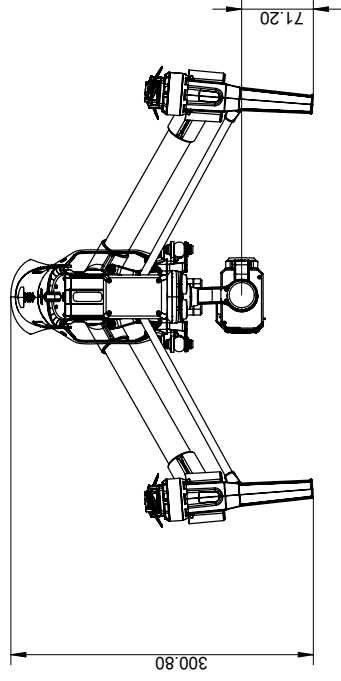
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DJI GO app	
Mobile device system requirements	• iOS version 7.1 or later • Android version 4.1.2 or later
Supported mobile devices	• iPhone 6 Plus • iPhone 6 • iPhone 5S • iPad Air 2 • iPad Mini 3 • iPad Air • iPad Mini 2 • iPad 4 • Samsung Note 3 • Samsung S5 • Sony Z3 EXPERIA  NOTE It is recommended that you use a tablet for the best experience
Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc
Warranty	
Warranty	http://www.dji.com/service#warranty_period
Shipping information	
Packaging type	Cardboard box
List of contents	• Inspire T600 aircraft • Zenmuse XT thermal camera with stabilized gimbal • Zenmuse X3 video camera with stabilized gimbal • Controller • Battery (x2) • FLIR Tools+ • Monitor hood • Rugged carry case • Landing Pad

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