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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FLIR Aerial series

P/N: 75604-0404

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Corporate Headquarters

FLIR Systems, Inc.
 27700 SW Parkway Ave.
 Wilsonville, OR 97070
 USA
 Telephone: +1-503-498-3547

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> 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) (ATTI 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
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s
Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W

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Gimbal (Zenmuse X3)	
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Full frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Exportable frame rates	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 20 mm (35 mm format equivalent) f/2.8 focus at ∞ 9 elements in 9 groups Anti-distortion
Still photography modes	<ul style="list-style-type: none"> Single shoot Burst shooting: 3/5/7 frames Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias Time-lapse

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Camera (Zenmuse X3)	
Video recording modes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FAT32/exFAT Photo: JPEG, DNG Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none"> 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	2x, 4x, 8x
Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (1.7 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	<ul style="list-style-type: none"> 922.7-927.7 MHz (Japan only) 5.725-5.825 GHz 2.400-2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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


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Remote controller	
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	<ul style="list-style-type: none"> 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
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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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DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none"> • iOS version 7.1 or later • Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none"> • 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 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> NOTE</p> <p>It is recommended that you use a tablet for the best experience</p> </div>
Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc
Warranty	
Warranty	http://www.dji.com/service#warranty_period
Global trade data	
HS Code	<ul style="list-style-type: none"> • 8802200015 (Inspire 1) • 9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)
Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Inspire T600 aircraft • Zenmuse XT thermal camera with stabilized gimbal • Zenmuse X3 video camera with stabilized gimbal • Controller • Battery (x2) • FLIR Tools+ • iPad Mini 4 (64 GB, Wi-Fi and cellular) • Monitor hood • Rugged carry case

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Corporate Headquarters

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 27700 SW Parkway Ave.
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 USA
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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> 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) (ATTI 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
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s
Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W

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Gimbal (Zenmuse X3)	
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Full frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Exportable frame rates	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 20 mm (35 mm format equivalent) f/2.8 focus at ∞ 9 elements in 9 groups Anti-distortion
Still photography modes	<ul style="list-style-type: none"> Single shoot Burst shooting: 3/5/7 frames Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias Time-lapse

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Camera (Zenmuse X3)	
Video recording modes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FAT32/exFAT Photo: JPEG, DNG Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none"> 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	2x, 4x, 8x
Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (1.7 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	<ul style="list-style-type: none"> 922.7-927.7 MHz (Japan only) 5.725-5.825 GHz 2.400-2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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

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Remote controller	
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	<ul style="list-style-type: none"> 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
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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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DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none"> • iOS version 7.1 or later • Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none"> • 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 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> NOTE</p> <p>It is recommended that you use a tablet for the best experience</p> </div>
Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc
Warranty	
Warranty	http://www.dji.com/service#warranty_period
Global trade data	
HS Code	<ul style="list-style-type: none"> • 8802200015 (Inspire 1) • 9032896085 (Zenmuse XT)
ECCN code	6A993 (Zenmuse XT)
Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Inspire T600 aircraft • Zenmuse XT thermal camera with stabilized gimbal • Zenmuse X3 video camera with stabilized gimbal • Controller • Battery (x2) • FLIR Tools+ • iPad Mini 4 (64 GB, Wi-Fi and cellular) • Monitor hood • Rugged carry case

P/N: 75604-0406

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Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> 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) (ATTI 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
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s
Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W

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Gimbal (Zenmuse X3)	
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Full frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Exportable frame rates	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 20 mm (35 mm format equivalent) f/2.8 focus at ∞ 9 elements in 9 groups Anti-distortion
Still photography modes	<ul style="list-style-type: none"> Single shoot Burst shooting: 3/5/7 frames Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias Time-lapse

P/N: 75604-0406

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Camera (Zenmuse X3)	
Video recording modes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FAT32/exFAT Photo: JPEG, DNG Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none"> 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	2x, 4x, 8x
Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (1.7 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	<ul style="list-style-type: none"> 922.7-927.7 MHz (Japan only) 5.725-5.825 GHz 2.400-2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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




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Remote controller	
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	<ul style="list-style-type: none"> 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
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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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DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none"> • iOS version 7.1 or later • Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none"> • 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 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> NOTE</p> <p>It is recommended that you use a tablet for the best experience</p> </div>
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	<ul style="list-style-type: none"> • 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
EAN-13	7332558011560
UPC-12	845188012519

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Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
Telephone: +1-503-498-3547

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)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> 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) (ATTI 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
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s
Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W

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Gimbal (Zenmuse X3)	
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Full frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Exportable frame rates	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 20 mm (35 mm format equivalent) f/2.8 focus at ∞ 9 elements in 9 groups Anti-distortion
Still photography modes	<ul style="list-style-type: none"> Single shoot Burst shooting: 3/5/7 frames Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias Time-lapse

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Camera (Zenmuse X3)	
Video recording modes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FAT32/exFAT Photo: JPEG, DNG Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none"> 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	2x, 4x, 8x
Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (1.7 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	<ul style="list-style-type: none"> 922.7-927.7 MHz (Japan only) 5.725-5.825 GHz 2.400-2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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



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Remote controller	
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	<ul style="list-style-type: none"> 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
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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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DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none"> • iOS version 7.1 or later • Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none"> • 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 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> NOTE</p> <p>It is recommended that you use a tablet for the best experience</p> </div>
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	<ul style="list-style-type: none"> • 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
EAN-13	7332558011713
UPC-12	845188012670

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Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
Telephone: +1-503-498-3547

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)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> 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) (ATTI 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
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s
Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W

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Gimbal (Zenmuse X3)	
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Full frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Exportable frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°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)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 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.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 20 mm (35 mm format equivalent) f/2.8 focus at ∞ 9 elements in 9 groups Anti-distortion
Still photography modes	<ul style="list-style-type: none"> Single shoot Burst shooting: 3/5/7 frames Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias Time-lapse



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Camera (Zenmuse X3)	
Video recording modes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FAT32/exFAT Photo: JPEG, DNG Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none"> 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	2x, 4x, 8x
Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (1.7 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	<ul style="list-style-type: none"> 922.7-927.7 MHz (Japan only) 5.725-5.825 GHz 2.400-2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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

P/N: 75604-1406

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Remote controller	
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	<ul style="list-style-type: none"> 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
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.)