TOPODRONE
AFFORDABLE ACCURACY

Quantum SOLUTIONS®

TOPODRONE Q.FLY

- Built-in SWIR sensor 640 x 512 pix, 400 - 1700 nm
- Built-in 16 Mp RGB camera for visual positioning
- Built-in thermal imager 640 x 512, 30 Hz
- Ability to quickly install any spectral value filters
- Spectral imaging at 220 Hz
- High-precision spectral images geo-referencing
- 3-axis gyrostabilized suspension
- Built-in Linux computer for camera control with support for various protocols, in particular DJI PSDK and Mavlink
- Integration with DJI Matrice 350 RTK: control, configuration and video transmission from the camera
- The camera with gimbal weighs only 650g, which allows you to fly up to 35 minutes on 1 battery set.

Specification

Camera	
SWIR sensor	Yes
RGB sensor	Yes
Thermal sensor	Yes
Built-in Linux system	Yes
PPK GNSS module	Yes
3-Axis gimbal	Yes
DJI Matrice 350 RTK support	Yes
SWIR sensor	
Sensor type	Quantum Dots
Sensor size	3.20 x 2.56 mm2
Sensor resolution	640 x 512 pix
Pixel size	3.8 x 3.8 µm
Sensor diagonal	4.1 mm
Spectral range	400-1700 nm
Max frame rate	220 Hz
SWIR module	
Shutter	Global
Size	35 x 25 x 25 mm2
Lens mount	C-mount
RGB sensor	
Sensor resolution	16 Mp
Sensor size	1/2.8 inch
Pixel size	1.12 µm
Image area	6.4 x 5.3 mm
Thermal sensor	
Sensor resolution	640 x 512 pix
Pixel pitch	12 µm
Spectral range	7500 - 13500 nm
Full frame rates	30 Hz
Thermal module	
Size	21 x 21 x 11 mm
PPK module	
Number of channels	1408
Frequency	20 Hz
Data Accuracy	3-5 cm
GPS	L1C/A, L2C, L1C, L2P (Y), L5
GLONASS	L1, L2, L3
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b
Galileo	E1, E5b, E5a, E6
SBAS	L1C/A
QZSS	L1, L2, L5

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