



**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  
RGB sensor  
Thermal sensor  
Built-in Linux system  
PPK GNSS module  
3-Axis gimbal  
DJI Matrice 350 RTK support

Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes

### SWIR sensor

Sensor type  
Sensor size  
Sensor resolution  
Pixel size  
Sensor diagonal  
Spectral range  
Max frame rate

Quantum Dots  
3.20 x 2.56 mm<sup>2</sup>  
640 x 512 pix  
3.8 x 3.8 μm  
4.1 mm  
400-1700 nm  
220 Hz

### SWIR module

Shutter  
Size  
Lens mount

Global  
35 x 25 x 25 mm<sup>2</sup>  
C-mount

### RGB sensor

Sensor resolution  
Sensor size  
Pixel size  
Image area

16 Mp  
1/2.8 inch  
1.12 μm  
6.4 x 5.3 mm

### Thermal sensor

Sensor resolution  
Pixel pitch  
Spectral range  
Full frame rates

640 x 512 pix  
12 μm  
7500 - 13500 nm  
30 Hz

### Thermal module

Size

21 x 21 x 11 mm

### PPK module

Number of channels  
Frequency  
Data Accuracy  
GPS  
GLONASS  
BeiDou  
Galileo  
SBAS  
QZSS

1408  
20 Hz  
3-5 cm  
L1C/A, L2C, L1C, L2P (Y), L5  
L1, L2, L3  
B1I, B2I, B3I, B1C, B2a, B2b  
E1, E5b, E5a, E6  
L1C/A  
L1, L2, L5



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