

Q.FLY® EXPLORE

KEY FEATURES

- **World's First DJI Payload With Built-in SWIR Sensor:** 640 x 512 pixels, 900 nm - 1700 nm spectral response
- **High-Resolution RGB Camera:** 16 MP for visual positioning and context
- **Optional LWIR Thermal Imager:** 640 x 512 pixels, 8 μ m - 14 μ m spectral response
- **Customizable Spectral Filters:** Quickly install and remove filters for tailored spectral data acquisition
- **Precise Geo-Referencing:** Accurate geotagging of images with optional embedded GNSS
- **Seamless DJI Integration:** Compatible with DJI Matrice 300/350/400 RTK drones and support for DJI PSDK protocol
- **Lightweight Design:** Weighing only 650 g, it extends flight time up to 35 minutes on a single battery



SWIR Sensor

Sensor Type	Quantum Dots
Spectral range	900 nm - 1700 nm
Sensor resolution	640 x 512
Pixel size	5 μ m x 5 μ m
Sensor size	1/4 inch
Lens focal length	8 mm
Frame rate	30 fps

RGB Sensor

Sensor Type	CMOS
Spectral range	400 nm - 850 nm
Sensor resolution	4656 x 3496
Pixel size	1.12 μ m x 1.12 μ m
Sensor Size	1/2.8 inch
Lens focal length	16 mm
Frame rate	30 fps

Thermal Sensor - optional

Sensor Type	Uncooled microbolometer
Spectral range	8 μ m - 14 μ m
Sensor resolution	640 x 512
Pixel size	12 μ m x 12 μ m
Lens focal length	18 mm
Frame rate	30 fps

PPKmodule - optional

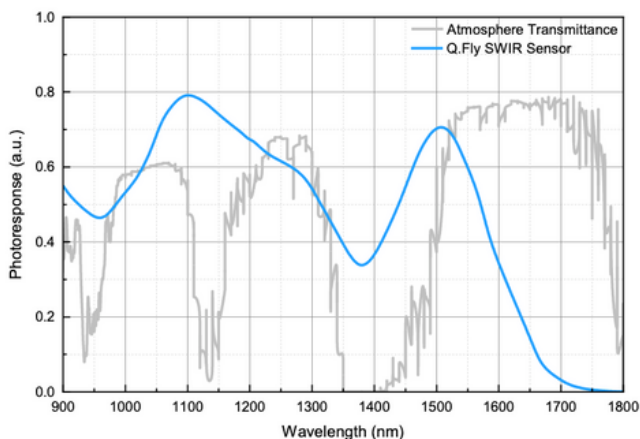
Number of channels	1408
Frequency	20 Hz
Data accuracy	3-5 cm
GPS	L1C/A, L2C, L1C, L2P (Y), L5
Glonass	L1, L2, L3
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b
Galileo	E1, E5b, E5a, E6
SBAS	L1C/A
QZSS	L1, L2, L5



UNLEASHING THE POWER OF SWIR IMAGING

The Pioneering Choice

The Q.Fly® Explore is the world's first SWIR payload designed for seamless integration with DJI Matrice 300 and 350 RTK drones. Out-of-the-box compatibility and plug-and-play simplicity empower you to start collecting valuable spectral data instantly.



Gain access to a wider range of information than ever before: Q.Fly® Explore captures data in the short-wave infrared spectrum, 900 nm - 1700 nm, revealing hidden details invisible to standard cameras.

Adaptable to Every Mission

The Q.Fly® Explore's SWIR channel can be customized with a variety of lenses, offering a wide range of Fields of View (FoV) and Ground Sampling Distances (GSD).

Removable filters can be used to target precise bands within the SWIR spectrum, optimizing data collection for your unique application.

Limitless Applications

The Q.Fly® Explore's SWIR technology opens up a world of possibilities. From penetrating smoke and fog for search and rescue operations to enhancing visibility in harsh weather conditions for firefighting support, and from remote sensing applications like agriculture, archaeology, and mineral exploration to facilities inspection, the Q.Fly® Explore empowers you with exceptional versatility.



The Power of Affordability

The Q.Fly® Explore delivers exceptional value, offering one of the most affordable SWIR payload solutions for DJI drones. Its affordability empowers you to elevate your data collection capabilities without breaking the bank.