Multispectral Camera AQ600 Pro

Five 3.2-megapixel multispectral channels and one 12.3-megapixel RGB channel. Sapphire optical window, large aperture, low distortion, broadband projection, all-glass lens and an aluminum alloy camera housing.In addition, AQ600 Pro can transmit spectral remote sensing video and output results in real time, which provides new technical means for precision agriculture, forestry monitoring, river monitoring, ecological protection, target recognition and other industrial applications.

- Five Multi-spectral bands and one RGB sensor.
- 3.2 megapixel multispectral and 12.3 megapixel RGB.
- Multi-spectral 12bit global shutter and RGB 8bit shutter.
- DJI X-Port interface can be used after installation.
- All bands take photos simultaneously at the fastest 1s.
- Real-time spectral inversion and output video.
- Downlink light sensor(DLS).
- 128GB SSD flash drive, supports a maximum of 1TB SSD.
- Support aircraft trigger and overlap trigger.
- Deep integration with M300, Pilot software integrated control.

The index name	AQ600 Pro
Band configuration	Five Multi-spectral bands and one RGB sensor
Target surface size	MS: 1/1.8"; RGB: 1/2.3"
Effective pixels	MS: 3.2Mpx; RGB: 12.3Mpx
Shutter type	Global shutter/Shutter
Quantitative figures	MS: 12bit; RGB: 8bit
Viewing Angle	MS: 48.8°×37.5°; RGB: 47.4°×36.4°
GSD	MS: 5.28cm@h120m; RGB: 2.60cm@h120m
Image size	MS 109m×82m@h120m; RGB: 106m×79m@h120m
Spectral band	450nm@35nm, 555nm@27nm,660nm@22nm, 720nm@10nm,840nm@30nm, RGB
Optical window	Sapphire optical window
Size	130mm×160mm×150mm
Weight	780g
Installation interface	X-Port
Power supply mode	X-Port
Power consumption	10W/15W
Image format	MS:16bit original TIFF image & 8bit reflectance JPG; RGB: 8bit JPG
Viedo format	MP4
Storage medium	Standard with 128GB, A maximum of 2TB is supported
Data processing software	Yusense Map/Yusense Map Plus
Control method	Yusense Fly / DJI Pilot
Picture mode	Aircraft trigger ,Overlap trigger
Frequency of taking pictures	Picture mode:1Hz, Video mode:20Hz
Operating ambient temperature	-10°C~+50°C (Relative wind speed≥1m/s)
Storage Environment Temperature	-30°C~+70°C
Environmental humidity	RH(%)≤85% (Non condensation)
Product certification	CE、FCC、RoHS

Note: The standard wavelength allows any combination of the following 17 wavelengths to be customized:410nm@35nm、450nm@35nm、490nm@25nm、530nm@27nm、555nm@27nm、570nm@32nm、610nm@30nm、650nm@27nm、660nm@22nm、680nm@25nm、720nm@10nm、720nm@15nm、750nm@10nm、780nm@13nm、800nm@35nm、840nm@30nm、900nm@35nm。

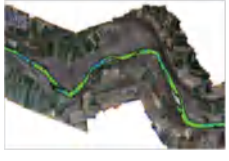
Typical Application

Condition monitoring

By using vegetation factors such as NDVI and LAI, quantifying the consistency of vegetation canopy status at different spatial scales, and using characteristic spectra of vegetation in different health states to quantitatively assess vegetation growth,which can provide data support for irrigation, fertilization, plant protection, yield evaluation and other work.

Discolored pine monitoring

Using spectrum and texture information to achieve efficient suppression of the environmental background of soil, withered grass and other objects and high-precision identification of color-change pine. By accurately extracting the location, spatial distribution and canopy area of color-changing pine trees, we can provide data support for the management of diseased trees.



Black and smelly water monitoring

By referring to the evaluation standard of surface black and smelly water, using the characteristic spectrum of black and smelly water to construct the classification index to achieve black and smelly water classification inversion and spatial information statistics. This technology can assist in analyzing the influence of domestic sewage and industrial wastewater on surrounding water, and finally help pollution source investigation and water environment assessment.

YUSENSE Information Technology and Equipment(Qingdao)Co.,Ltd
Telephone:0532-68012101 E-mails：info@yusense.com.cn
Address：Block F, Building 3, Zhongou Kechuang Park, No.67, Taihong Road, High-tech Zone, Qingdao, Shandong, China