

Multispectral Camera MS600 Pro

Six narrow-band spectral bands, sapphire optical Windows, large apertures, low distortion, broadband transmission, all-glass lens and an aluminum camera housing. In addition, MS600 Pro has a large dynamic range of intelligent dimming performance, which can meet the application needs of precision agriculture, forestry monitoring, river monitoring, ecological protection, target recognition and other industries.

- Six band Multi-spectral bands.
- 1.2 megapixel multispectral.
- 12 bit raw data and global shutter.
- DJI X-Port interface can be used after installation.
- Calculate reflectance in real time.
- All bands take photos simultaneously at the fastest 1s.
- Downlink light sensor (DLS).
- Standard with 64GB TF card, maximum support 128GB TF card.
- Support aircraft trigger and overlap trigger.
- Deep integration with M300, Pilot software integrated control.



The index name	MS600 Pro
Band configuration	Six multispectral channels
Target surface size	1/3"
Effective pixels	1.2Mpx
Shutter type	Global shutter
Quantitative figures	12bit
Viewing Angle	49.6°×38°
GSD	8.65cm@h120m
Image size	110m×83m@h120m
Spectral band	450nm@35nm, 555nm@27nm, 660nm@22nm, 720nm@10nm, 750nm@10nm, 840nm@30nm
Optical window	Sapphire optical window
Size	129mm×157mm×148mm
Weight	655g
Installation interface	X-Port
Power supply mode	X-Port
Power consumption	7W/10W
Image format	16bit original TIFF image & 8bit reflectance JPG
Storage medium	Standard with 64GB, A maximum of 128GB is supported (The transfer speed of the SD card needs to be U3 or higher)
Data processing software	Yusense Map/Yusense Map Plus
Control method	Yusense Fly / DJI Pilot
Picture mode	Aircraft trigger ,Overlap trigger
Frequency of taking pictures	1Hz
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



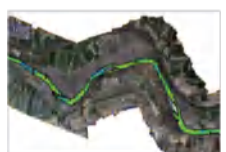
Condition monitoring

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.



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