

Compatible with DJI M300/M350 RTK drones

Multispectral Camera FS-500 600 620



Product Introduction

FigSpec® series multispectral cameras of CHNSpec Technology include FS-500, FS-600 and FS-620. FS-500 is composed of 4-channel multispectral and 1 RGB, and the effective pixel of RGB is up to 8.3 million. FS-600 has 6-channel multispectral, and the effective pixel can reach 1.3 million pixels. FS-620 is composed of 4-channel multispectral, 1 RGB and 1 channel thermal infrared LWIR, and LWIR can directly output temperature data.

Features

- DJIX-Port, real-time reflectivity calculation on the Pilot control machine
- All channels can be synchronized in 100ms at the fastest
- DJIX-Port power supply, 512G solid-state drive
- DJIM300/M350 RTK drone customization, plug and play

Product Advantages

- Innovative standard dual red-edge vegetation sensitive bands
- 400nm~1000nm range bands can be customized
- Using DJI Pilot integrated control, easy to use
- *LWIR temperature data direct output

*This feature is unique to FS-620

Product List



Multispectral Camera Downstream light sensor Calibration gray plate

- Software USB flash drive · Power cord · HDMI signal cable
- Certificate of Conformity/Warranty Card · Hard Suitcase

Note: If you need other accessories, please consult sales staff.

Parameters

Model	FS-500	FS-600	FS-620
Assembly method	4 channels multispectral + 1 RGB	6-channel multispectral	4 channels multi-spectral + 1 RGB + 1 channel thermal infrared LWIR
Target size	Multispectral: 1/2"; RGB: 1/3"	1/2"	Multispectral: 1/2"; RGB: 1/3"
Effective pixels	Multispectral: 1.3Mpx; RGB: 8.3Mpx	1.3Mpx	Multispectral: 1.3Mpx; RGB: 8.3Mpx; LWIR: 0.3Mpx
Shutter type	Multispectral: Global; RGB: Rolling	Global	Multispectral: Global; RGB: Rolling
Quantization bit number	Multispectral: 12bit; RGB: 8bit	12bit	Multispectral: 12bit; RGB: 8bit
Field of view	Multispectral: 54.2°×44.5° ; RGB: 49.1°×28.8°	54.2°×44.5°	Multispectral: 54.2°×44.5°; RGB: 49.1°×28.8°
Ground resolution	Multispectral: 9.6cm@h120m; RGB: 2.86cm@h120m	9.6cm@h120m	Multispectral: 9.6cm@h120m; RGB: 2.86cm@h120m
Coverage Width	Multispectral: 123m×98m@h120m; RGB: 109m×61m@h120m	123m×98m@h120m	Multispectral: 123m×98m@h120m; RGB: 109m×61m@h120m
Spectral channel[1]	555nm@27nm, 660nm@22nm, 720nm@10nm, 840nm@30nm, RGB	450nm@30nm, 555nm@27nm, 660nm@22nm, 720nm@10nm, 750nm@10nm, 840nm@30nm	555nm@27nm, 660nm@22nm, 720nm@10nm, 840nm@30nm, RGB; LWIR: 8μm~14μm
Optical Window	Sapphire optical glass window		
Host size	182mm×169mm×129mm (including gimbal)		
Host weight	≤900g (including gimbal)	≤940g (including gimbal)	≤1000g (including gimbal)
Mounting interface	X-Port		
Powered by	X-Port		
Power consumption	≤43W		
Image Format	Multispectral: 16-bit raw TIFF (including GPS); RGB: 8-bit JPEG (including GPS)	16bit raw TIFF (including GPS)	Multispectral: 16-bit raw TIFF (including GPS); RGB: 8-bit JPEG (including GPS); LWIR: 16-bit TIFF (including GPS)
Storage Media	Standard 512G solid state drive		
Processing software	FigSpec UAV-MS, FigSpec Merge-MS, FigSpec Studio		
Parameter settings	DJI Pilot		
Shooting trigger	Timing trigger		
Shooting frequency	Maximum support 10HZ		
Operating temperature	-10°C~+50°C(Relative wind speed≥1m/s)		
Storage temperature	-30°C~+70°C		
Ambient humidity	RH(%)≤85%(non-condensing)		

[1] Standard wavelengths allow customization of the following 18 wavelength combinations (please contact sales staff for details on combination methods and costs): 410nm@35nm, 450nm@30nm, 490nm@25nm, 530nm@27nm, 555nm@27nm, 570nm@32nm, 610nm@30nm, 650nm@27nm, 660nm@22nm, 680nm@25nm, 720nm@10nm, 720nm@15nm (Qualcomm), 750nm@10nm, 780nm@13nm, 800nm@35nm, 840nm@30nm, 900nm@35nm, 940nm@30nm (tolerance ±5nm).