

UAV Hyperspectral Camera FS60-C Series



FS60-C series is a new generation of drone-mounted hyperspectral cameras launched by Caipu Technology Co., Ltd., which is compatible with DJI M350/M300RTK flight platforms and can meet the application needs of geological and mineral resource surveys, precision agriculture, crop growth and yield assessment, forest pest monitoring and fire prevention monitoring, coastline and marine environment monitoring, grassland productivity and grassland monitoring, lake and watershed environment monitoring, remote sensing teaching and scientific research, meteorological research, ecological environment protection and mine environment monitoring, water quality testing, soil monitoring, agricultural and livestock product quality testing, military, national defense and homeland security, disaster prevention and other industries.

- Spectral range: 400-1700nm
- Spectral resolution: better than 2.5nm
- Spectral band: 1200
- Number of spatial pixels: 1920



Parameters

Product	FS60-C	FS62-C	FS64-C
Spectroscopic method	Transmission Grating Spectroscopy		
Spectral range	400-1000nm	900-1700nm	400-1700nm
Spectral band	1200	1024	680
Spectral resolution	2.5nm	6.5nm	13nm
Slit width	25um		
Spectral efficiency	60%		
Stray light	0.5%		
Number of spatial pixels	1920	1280	
Pixel size	5.86um*5.86um	5um*5um	
Imaging speed	Full band 128fps	Full band 70fps	100fps
Detector	CMOS	InGaAs	
SNR (Peak)	600/1		
Camera output interface	USB		
Camera lens interface	C-Mount		
Built-in embedded data acquisition and processing unit	Embedded processor 512GSSD storage		
Heat dissipation method	Internal air cooling		
Camera size	155*95*119mm (length*width*height)	135*82*100mm (length*width*height)	/
Camera weight	≤840g	≤740g	/
Accessories	Reflectivity Calibration Plate		
Lens focal length	25mm		
Lens field of view	> 25°		
Operation method	Easy to operate, no professional drone operator is required, and single-person operation is possible		
Observation method	Through the ground station to observe the aircraft sampling location, hyperspectral images, spectral data in real time, function		
Correction method	Reflectivity correction and area correction support batch processing		
Data format	Compatible with spe format, hdr format, scp format		
Application software	FIGSPEC UAV, FIGSPEC Mergence puzzle software, FIGSPEC Studio application software image analysis software		