

Portable hyperspectral camera

400-1700nm hyperspectral camera
Obtain hyperspectral image data and analyze it
anytime and anywhere



Main characteristics

- Internal sweep hyperspectral camera, wavelength range 400-1700nm
 - The spectral resolution (FWHM) can reach 2.5nm
- The spatial resolution is up to 1920*1920, and the number of spectral channels is up to 1200
- Display and operation through 5-inch touch screen, resolution 1280*720

Main function

Working mode	High precision imaging measurement mode
	PC control mode
	Line scan mode
User adjustment	Users can flexibly set and adjust the exposure time, merge method, ROI area
Data format	Data format compatible with multiple formats (including envi)
Data export	USB Type-C is available
Working hours	300 measurements can be performed on a single charge (measurement conditions: one measurement every 2 seconds, exposure time 20 milliseconds)

Parameters

Model number	FS-IQ-VIS	FS-IQ-A	FS-IQ-VISNIR	FS-IQ-SWIR
Spectroscopic method	Grating	Grating	Grating	Grating
Image resolution	1920 * 1920	480*480	1920 * 1920	1280*1280
Dynamic range	12 bits	12 bits	12 bits	12 bits
Imaging speed	128 fps	128 fps	128 fps	70 fps
Spectral channel number	500	300	1200	1024
Spectral range	400-700nm	400-1000nm	400-1000nm	900-1700nm
Optical harmonic resolution	2.5 nm	2.5 nm	2.5 nm	6nm
Slit width	25 um	25 um	25 um	25 um
Transmission efficiency	≥60%	≥60%	≥60%	≥60%
Stray light level	≤0.5%	≤0.5%	≤0.5%	≤0.5%
Pixel size	5.86um* 5.86um	5.86um* 5.86um	5.86um* 5.86um	5um* 5um
Detector type	CMOS	CMOS	CMOS	InGaAs
Standard lens focal length	25 mm	25 mm	25 mm	25 mm
Minimum working distance	100mm	100mm	100mm	100mm
Field Angle	25 °	25 °	25 °	17°
Minimum exposure time	21us	21us	21us	1us
Maximum exposure time	10s	10s	10s	10s
Signal-to-noise ratio	600/1	600/1	600/1	600/1
Data interface	USB3.0	USB3.0	USB3.0	USB3.0
Camera lens interface	C	C	C	C
attachment	USB3.0	USB3.0	USB3.0	USB3.0
Auxiliary imaging function	The auxiliary view camera monitors the shooting area	The auxiliary view camera monitors the shooting area	The auxiliary view camera monitors the shooting area	The auxiliary view camera monitors the shooting area