

Specifications

Model	RU-70-U Full Spectrum Hyperspectral Camera		
Module	Parameter	VNIR	SWIR
Main Unit	Spectral Method	Transmission Grating	Transmission Grating
	Spectral Range	400-1000 nm	1000-2500 nm
	Combined Spectral Range	400-2500 nm	
	Spectral Channels	300	≥400
	Combined Spectral Channels	≥640	
	Spectral Resolution	Better than 2.8 nm	Better than 10 nm
	F-number	F/2.6	F/2.0
	Detector	CMOS	HgCdTe (Stirling Cooled)
	Detector Interface	USB 3.0	Gigabit Ethernet
	Detector Sensor Size	11.3 mm x 7.1 mm	9.6 mm x 7.68 mm
	Detector Native Pixel Size	5.86 μm x 5.86 μm	15 μm x 15 μm
	Effective Pixel Depth	12 bit	14 bit
	Effective Slit Length	11.3 mm	9.6 mm
	Slit Width	25 μm	25 μm
	Recommended Pixel Binning	1x1	1x1
	Effective Spatial Pixels	1920	640
	Combined Spatial Pixels	640	
	Field of View (FOV)	21°@f=25 mm	21°@f=25 mm
	Combined Field of View (FOV)	21°@f=25 mm	
	Instantaneous FOV (IFOV)	1 mrad@f=25 mm	1 mrad@f=25 mm
	Combined Instantaneous FOV (IFOV)	1 mrad@f=25 mm	
	Frame Rate (Max)	128 fps	100 fps
	Detector Power Supply	12VDC, 4.3W	24VDC, 30W
Operating Temperature	0-40°C		
Storage Temperature	0-50°C		