

Hyperspectral Camera Equipped with Sony's IMX991

Hyperspectral Imaging Camera AHS-003VIR

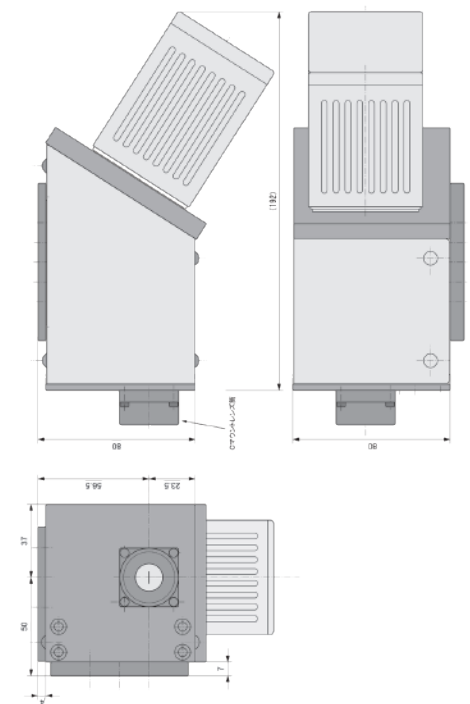
A hyperspectral camera is a device capable of simultaneously acquiring two-dimensional spatial data (XY coordinates) and spectral data (wavelength information). The AHS-003VIR separates light in the 450nm to 1700nm range using a 640-pixel line sensor and captures spectral information across 512 wavelength bands.



■ AHS-003VIR Specification

Model	AHS-003VIR-CL	AHS-003VIR-GE
Image sensor	Effective pixel : 640 (Spatial)×512 (Spectral) Pixel size : 5μm×5μm InGaAs : Cooled InGaAs Sensor	
Sensitivity wavelength	450nm~1700nm	
Spectral resolution	18.8nm	
Interface	Camera Link (SDR)	Gigabit Ethernet (1000BASE-T)
Operating method	Push broom type (line scan)	
Lens mount	C-mount 1/4 inch	
Line rate	Max Line rate 220.00FPS ※Full band @GiGE / 8bit 240.61FPS ※Full band @Camera Link / 8bit 2767.00FPS ※8bands @Camera Link / 8bit	
Exposure time	6μsec~10msec (Setting range : 6μsec to 9.99sec)	
Gain	X1 to x4 (approximately 0dB to +12dB)	
Black level	0LSB~127LSB Reversible (10bit)	
Main function	Status LED, External trigger, Correction function (DSNU, PRNU, Defect pixel, Shading), field upgrade, band option	
PRNU	Brightness correction for pixel-level non-uniformity	
DSNU	Darkness correction for pixel-level non-uniformity	
Pixel defect correction	Black pixel, White pixel correction, mask function	
Shading correction	Flat shading correction ON-OFF	
Interface	GiGE Vision / Camera Link	
Synchronous mode	Internal / External synchronous mode	
Image output	8 / 10 / 12bit	
Power	Input voltage : DC+12V~+24±1V Power consumption : DC +12V , 7W(typ)	
Operating temp/humidity	0°C~45°C / 20~80% (Non-Condensing)	
Storage temp/humidity	-15°C~+65°C / 20~80% (Non-Condensing)	
Dimension (DxWxH)	87mm×120mm×192mm (Connector part not included)	
Weight	1250g (typ.)	
Compliance	RoHS2	
Standard	Hyper terminal or standard software	GiGE Vision®, GenICam™, GenICam™ GenTL
Camera update tool Cable (video output)	Camera Link SDR Cable	LAN cable compatible with CAT5E and CAT6
SDK	For imaging / communication : SDK-AcapLib2 (Model name : AZP-ACAP-02)	
		HySight : Viewer for hyperspectral cameras

External dimensions



Quantum efficiency

