

HSC-2 HYPERSPECTRAL CAMERA

DATASHEET



MosaicMill provides HSC-2 camera, the world's smallest hyperspectral frame camera. This novel sensor creates 2D spectral information in VIS-VNIR spectral range with single exposure and enables mosaicking with photogrammetric software. HSC-2 camera provides real response in each pixel without interpolation. Sensor has been tested with wide variety of platforms, and is especially suitable for agriculture, forestry and water research.



Spectral range	default 500 - 900 nm, other ranges 400 - 700, 450 - 800, 550 - 950 nm
Spectral resolution	5 – 10 nm, FWHM
Spectral step	0.1 nm
Number of channels	up to 1000 bands, freely selectable / programmable
Sensor	1024 * 1024 pixels for each band, CMOS, 5.5 * 5.5 microns / pixel
Dynamic range	10 – 12 bits
FOV	36.8 degrees
Adjustable optics	Focus distance > 30 cm
Exposure time	Adjustable, Max frame rate may be limited if exposure time is long
Image rate (frames/s)	74 (12 bit), 149 (10 bit) camera exposures each band separately
Memory	1 TB, shooting time 1 h 45 min (12 bit) 1 h 17 min (10 bit)
Positioning	GPS and BeiDou
Data export	Standard ENVI
Operational voltage	7 - 17 V
Weight	986 g
Dimensions	199.5 mm x 130.9 mm x 97.2 mm
Connections	GigE RJ-45, USB 2.0 type-C, Mini-Displayport v1.2, IO port with UART and 4GPIO pins, MMCX for external GPS antenna

