HySpex VNIR-1800

The HySpex VNIR-1800 hyperspectral camera is developed for field, laboratory, and airborne applications. HySpex VNIR-1800 utilizes a cutting edge actively cooled and stabilized scientific CMOS detector. This makes VNIR-1800 the ideal camera for high-end data acquisitions where high radiometric accuracy is required. The dynamic range of 20 000 ensures outstanding SNR levels even in darker areas of an image of highly dynamic scenes. With a max frame rate of 260 fps, combined with aberration-corrected optics and high optical throughput (f/2.5), HySpex VNIR-1800 offers a unique combination of data quality, high speed, and sensitivity. A wide range of close-up lenses allows the use of the camera at working distances ranging from a few centimeters with a spatial resolution of 24 µm, to infinity e.g. airborne remote sensing.

MAIN SPECIFICATIONS	
Spectral range	400 – 1000 nm
Spatial pixels	1800
Spectral channels	186
Spectral sampling	3.26 nm
FOV*	17°
Pixel FOV across/along*	0.16/0.32 mrad
Bit resolution	16 bit
Noise floor	2.4 e-
Dynamic range	20000
Peak SNR (at full resolution)	> 255
Max speed (at full resolution)	260 fps
Power consumption	30 W
Dimensions (l–w–h)	39 – 9.9 – 15 cm
Weight	5.0 kg
Camera Interface	CameraLink

*Can be doubled with FOV expander