HySpex VNIR-3000N

HySpex VNIR-3000N is developed for field, laboratory, and airborne applications. HySpex VNIR-3000N utilizes the same spectrograph as the other classical HySpex VNIR models. With a pixel size of 3.45μm, compared to 6. 5μm for VNIR-1800, HySpex VNIR-3000N will have less than 1.6 pixels per FWHM of the PSF spatially and less than 1.8 bands spectrally, ensuring that narrow band features will be resolved equally for all cameras. With 3000 spatial pixels, 300 bands and a noise floor of 2.4e-, HySpex VNIR-3000N will provide outstanding SNR levels in dark environments. The camera is offered with a USB connection, allowing you to operate the camera from any computer and reducing the cost of supplementing equipment. To visualize that the camera has a wider PSF per pixel and band relative to our normal extremely sharp cameras, we have added an N for Nyquist to the model name.

MAIN SPECIFICATIONS	
Spectral range	400-1000 nm
Spatial pixels	3000
Spectral channels	300
Spectral sampling	2.0 nm
FOV*	16°
Pixel FOV across/along*	0.096/0.32 mrad
Bit resolution	12 bit
Noise floor	2.37 e-
Dynamic range	11000
Peak SNR (at full resolution)	> 170
Max speed (at full resolution)	117 fps
Power consumption	30 W
Dimensions (l–w–h)	39 – 9.9– 15 cm
Weight	5.0 kg
Camera Interface	USB3

*Can be doubled with FOV expander