

# HySpex Baldur V-1024 N

Designed to be fast, flexible, robust and repeatable, HySpex offers the Baldur line of industrial cameras.

Baldur V-1024 N covers the full VNIR spectral range from 400-1000nm and is configurable within one octave in the same range.

All Baldur cameras are Nyquist cameras giving a spectral resolution of 2 spectral bands while capturing 4 times as much light as the classic systems. To ensure that the most information per framerate is provided, the spectral resolution is kept very close to 2 bands. Additionally, the spatial resolution of Baldur V-1024 N is better than 1.7 pixels, yielding a very sharp camera.



## On-scene scan speed for various aperture options V-1024N

Working distance	Field of View	Pixel size	Max speed (91 bands*)	Max speed (45 bands*)
1.0 m	16°/293 mm	0.286 mm	0.22 m/s	0.44 m/s
1.0 m	40°/748 mm	0.730 mm	0.56 m/s	1.12 m/s
1.9 m	40°/1331 mm	1.300 mm	1.00 m/s	2.00 m/s

\* With square pixels. Reducing the number of spectral channels with ROI will proportionally increase the max framerate.

MAIN SPECIFICATIONS	
Spectral Range	400-800/430-820/485-960/400-1000 nm
Spectral bands	72/72/88
Max speed*	1000/1000/800
Spectral sampling	5.5 nm
Spectral FWHM	<2 bands
Spatial FWHM	< 1.7 pixels
Spatial pixels	1024
Keystone	< 15% of a pixel
Smile	< 15% of band
FOV	16° / 40°
Bit resolution	12
Noise floor	11e
Peak SNR	>286
Dynamic range	2560
ROI*	8 independent ROIs
Dimensions (l-w-h)	316 - 105 - 153 mm

\* Reducing the number of spectral channels with ROI will proportionally increase the max framerate