

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 408-996nm 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 frame rate 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 foreoptics options

Foreoptics type	Working distance [mm] from camera to object	Field of view	Pixel size	Max. speed*	Max. speed**
Microscope	21,1	17,6°/37 mm	0.036 mm	0.02 m/s	0.04 m/s
30 cm	202,8	16.8°/93.7 mm	0.091 mm	0.06m/s	0.09m/s
1.0 m	886,8	16.1°/285 mm	0.279 mm	0.18 m/s	0.28 m/s
44 cm / 40°	417,4	37.1°/325.8 mm	0.318 mm	0.21 m/s	0.32 m/s
1.0 m / 40°	900	38.8°/679.8 mm	0.664 mm	0.43 m/s	0.68 m/s

*With 113 bands and square pixels. **With 72 bands and square pixels.

MAIN SPECIFICATIONS	
Spectral range	410-780 / 493-945 / 408-996nm
Spectral bands	72 / 88 / 113
Max. speed*	1020 / 840 / 650
Spectral sampling	5.5 nm
F-number	f/1.9
Spectral FWHM	< 2 bands
Spatial FWHM	< 1.7 pixels
Spatial pixels	1024
FOV	15.9° / 32.6°
Bit resolution	12 bit
Noise floor	31e-
Peak SNR	>286
Dynamic range	2560
ROI*	8 independent ROIs
External trigger options	LVDS, 3.3V / 5V TTL
Dimensions (l-w-h)	316 - 105 - 153 mm

*Reducing the number of spectral channels with ROI will proportionally increase the maximum frame rate