

HySpex Baldur S-384 N

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

Baldur S-384 N is configurable within one octave in the SWIR spectral range from 950-2500nm.

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 S-384 N is better than 1.3 pixels, yielding a very sharp camera.



On scene scan speed for various aperture options S-384N

Working distance	Field of View	Pixel size	Max speed (200 bands*)	Max speed (100 bands*)
1.0 m	16°/280 mm	0.73 mm	0.42 m/s	0.84 m/s
1.0 m	40°/699 mm	1.82 mm	1.05 m/s	2.10 m/s
1.9 m	40°/1344 mm	3.50 mm	2.02 m/s	4.03 m/s

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

MAIN SPECIFICATIONS	
Spectral Range	960-1920/1100-2200/1250-2500nm
Spectral bands	178/204/231
Max speed*	650/564/500 fps
Spectral sampling	5.45nm
Spectral FWHM	<2 bands
Spatial FWHM	< 1.3 pixels
Spatial pixels	384
Keystone	< 15% of a pixel
Smile	< 15% of band
FOV	16° / 40°
Bit resolution	16
Noise floor	150 e
Peak SNR	7500
Dynamic range	2560
ROI*	All bands can be selected/deselected individually
External trigger options	LVDS, 5V/12V/24V TTL
Dimensions (l-w-h)	368 - 131 - 175 mm

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