

# HySpex Baldur S-640i N

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

Baldur S-640i N covers the spectral range from 950-1730nm.

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-640i N is better than 1.5 pixels, yielding a very sharp camera.



## On scene scan speed for various aperture options

Working distance	Field of View	Pixel size	Max speed (232 bands*)	Max speed (116 bands*)
1.0 m	16°/282 mm	0.44 mm	0.22 m/s	0.40 m/s
1.0 m	40°/704 mm	1.10 mm	0.55 m/s	1.10 m/s
1.9 m	40°/1344 mm	2.10 mm	1.05 m/s	4.20 m/s

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

MAIN SPECIFICATIONS	
Spectral Range	950-1730 nm
Spectral bands	232
Max speed*	500 fps
Spectral sampling	3.36 nm
Spectral FWHM	<2 bands
Spatial FWHM	<1.5 pixels
Spatial pixels	640
Keystone	<20% of a pixel
Smile	<20% of band
FOV	16° / 40°
Bit resolution	12 bit
Noise floor	HG:8.5/MG:32/LG:270 e-
Peak SNR	HG:150/MG:275/LG:800
Dynamic range	HG:2650/MG:2360/LG:2360
ROI*	All bands can be selected/deselected individually
External trigger options	LVDS, 5V/12V/24V TTL
Dimensions (l-w-h)	364 - 105 - 153 mm

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