

BeyonSense 1 Specification

Version 1.1

1. Image Sensor Specification

Parameter	Unit	Value
Package Size (H x W)	mm x mm	12.19 x 12.19
Imager Size (H x W)	mm x mm	6.80 x 6.80
Active Pixel Area (H x W)	mm x mm	4.48 x 4.48
Active Pixel (H x W)	-	128 x 128
Pixel Pitch	μm	35
Spectral Response Range	nm	400 – 1600
Responsivity (@1350nm)	A/W	27.06
Sensor Total Noise (Without illumination)	e	5.24×10^6
Optical Crosstalk	%	< 1
Maximum Exposure Time	second	0.1
Noise Equivalent Power (@10 fps)	nW/cm ²	33.0

2. Camera Specification

Parameter	Unit	Value
Maximum Frame Rate	fps	10
Power	V	5 (USB, 5pin)
Power Consumption (Standby)	mW	600 (Typ.)
Power Consumption (Active)	mW	900 (Typ.)
Connectivity	-	802.11 b/g
Module Size	mm x mm	60 mm x 60 mm

3. Camera Lens Specification

Parameter	Unit	Value
Focal Length	mm	16
Maximum Aperture Ratio	-	1:1.4
Operating Range (Iris)	-	F1.4 – F16C
Operating Range (Focus)	-	0.3m – Inf.
Control	-	Manual Iris & Focus
Filter Size	-	M30.5, P=0.5 mm
Dimensions	mm	φ33.5 x 28.2
Lens Mount	-	C-mount
Operating Temperature	°C	-10 - 50

Revision History

Rev.	Date	Note
1.0	January 2023	Initial Release
1.1	February 2024	Image sensor spec updated

Contact Us

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