

// GOLDEYE

Imaging beyond the visible



Goldeye short-wave infrared (SWIR) cameras offer a high grade of versatility whether resolution, interface, lens-mount, optical filter, or thermo-electric sensor cooling wise (TEC1, TEC2, TECless). They can be operated at high frame rates and their multiple on-board image processing features provide superior imaging results with low-noise high linearity, and high dynamic range. Experience an eased system integration supported by features like Power over Ethernet enabling single cable solutions, comprehensive I/O control functionality, and multiple mounting options. Moreover, a standardized GigE Vision or Camera Link interface and GenICam-like feature control provide you a plug & play feeling when utilizing these robust, high-quality SWIR cameras in imaging applications beyond the visible spectrum.

Key facts

- // Camera Link or GigE Vision interface
- // Resolution up to 1.3 megapixels (QVGA, VGA, and SXGA)
- // InGaAs sensor for SWIR sensitivity
- // Up to 344 frames per second at full resolution
- // Extended operating temperature range: -20° C to +55° C (housing)

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Camera model	Sensor	Shutter mode	Mega-pixels	Resolution	Max. frame rate in fps	Pixel size in μm	Spectral range in nm	Standard mount	Power over Ethernet
G/CL-008 TEC1	InGaAs FPA with TEC1 cooling (Min. $\Delta T = 20$ K)	Global	0.1	320 x 256	344	30 x 30	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-030 TEC1	Sony IMX991 with TEC1 Cooling (Min. $\Delta T = 25$ K)	Global	0.3	656 x 520	234	5 x 5	400 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-032 TEC1	InGaAs FPA with TEC1 cooling (Min. $\Delta T = 30$ K)	Global	0.3	636 x 508	100	25 x 25	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-033 TEC1	InGaAs FPA with TEC1 cooling (Min. $\Delta T = 25$ K)	Global	0.3	640 x 512	301	15 x 15	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-033 TECless	InGaAs FPA without TEC cooling	Global	0.3	640 x 512	301	15 x 15	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-034 TEC1	InGaAs FPA with TEC1 cooling (Min. $\Delta T = 25$ K)	Global	0.3	636 x 508	303	15 x 15	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-130 TEC1	Sony IMX990 with TEC1 cooling (Min. $\Delta T = 25$ K)	Global	1.3	1280 x 1024	94	5 x 5	400 to 1700	C-Mount	IEEE 802.3af (PoE)

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Camera model	Sensor	Shutter	Mega-pixels	Resolution	Max. frame rate in fps	Pixel size in μm	Spectral range in nm	Standard mount	Power over Ethernet
G/CL-008 Cool TEC1	InGaAs FPA with TEC1 cooling (Min. $\Delta T = 30$ K)	Global	0.1	320 x 256	344	30 x 30	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-032 Cool TEC2	InGaAs FPA with TEC2 cooling (Min. $\Delta T = 60$ K)	Global	0.3	636 x 508	100	25 x 25	900 to 1700	C-Mount	IEEE 802.3at (PoE+)

Modular concept		
// IR band-pass filter	// F-Mount / M42-Mount	// Silver design
Dimensions (including connectors and standard mount) L x W x H in mm		
// Standard: 93.2 x 55 x 55		
// Cool: 105.8 x 80 x 80		



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