

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 0.3 megapixels (QVGA and VGA)
- // InGaAs sensor for SWIR sensitivity
- // Up to 344 frames per second at full resolution
- // Extended operating temperature range: -20° C to +55° C (housing)

Goldeye G/CL



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. ΔT = 20 K)	Global	0.1	320 × 256	344	30 × 30	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-032 TEC1	InGaAs FPA with TEC1 cooling (Min. ΔT = 30 K)	Global	0.3	636 × 508	100	25 × 25	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-033 TEC1	InGaAs FPA with TEC1 cooling (Min. ΔT = 25 K)	Global	0.3	640 × 512	301	15 × 15	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-033 TECless	InGaAs FPA without TEC cooling	Global	0.3	640 × 512	301	15 × 15	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-034 TEC1	InGaAs FPA with TEC1 cooling (Min. ΔT = 25 K)	Global	0.3	636 × 508	303	15 × 15	900 to 1700	C-Mount	IEEE 802.3af (PoE)

Goldeye G/CL Cool



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. ΔT = 30 K)	Global	0.1	320 × 256	344	30 × 30	900 to 1700	C-Mount	IEEE 802.3af (PoE)
G/CL-032 Cool TEC2	InGaAs FPA with TEC2 cooling (Min. ΔT = 60 K)	Global	0.3	636 × 508	100	25 × 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 × W × H in mm		
// Standard: 93,2 × 55 × 55		
// Cool: 105,8 × 80 × 80		



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