

BV-C3103 SWIR Line Scan Camera

High Line rate, High Sensitivity, Compact



- Newly developed InGaAs sensor with 512 pixels and 25 μ m square pixel size
- It covers from 900nm to 1700nm SWIR wavelength
- Maximum 40kHz line rate
- 4 selectable sensor sensitivity
- Compact and light weight, 270g(CL, GE)/280g(USB)
- C mount for lenses to use with

BlueVision Ltd., Japan

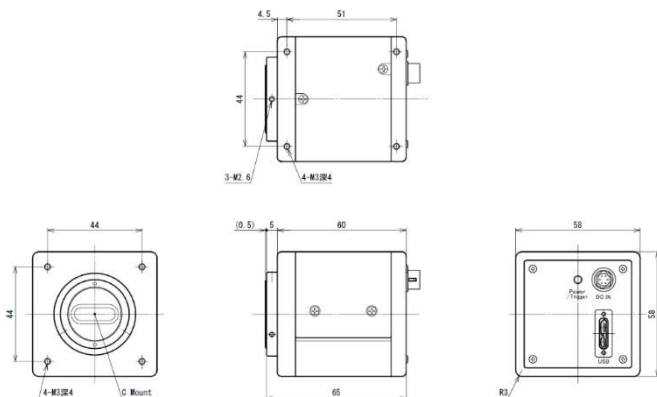
Specifications

(* BV-C3103GE tentative spec)

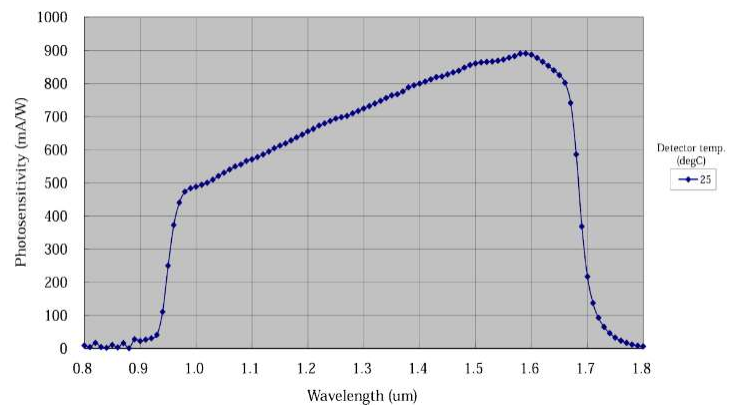
		BV-C3103CL	BV-C3103USB	BV-C3103GE
Image sensor		Effective pixel: 512 pixels, Pixel size: 25μm x 25μm Effective image length: 12.8mm		
Sensor bandwidth		900nm ~ 1700nm (maximum sensitivity is 1600nm)		
Synchronization		Internal / External trigger		
Sensor clock frequency		15MHz (2ch simultaneous readout)		
Sensor line frequency		40kHz (maximum) (factory default setting: 10kHz)		
Conversion efficiency		4 steps selectable		
Video S/N		More than 50dB (factory default setting)		
Shutter		Variable range: 20μs ~ 100ms (recommended setting range: 20μs ~ 1ms)		
Gain		0dB ~ +18dB		0dB ~ +30dB
Black level		-128LSB ~ +127LSB (at 10bit output)		
PRNU		Built in		
DSNU		Built in		
FFC		Built in		
Image output		CameraLink Base Configuration, 8bit, 10bit or 12bit, 60MHz	USB3.0 (based on USB3 Vision) MONO8/10/12/10P/12P	Based on GigE Vision 8bit/10bit/12bit/14bit
Operation mode		No Shutter mode (Internal) Shutter select mode (Internal / External trigger) Trigger width mode (External trigger)		
Trigger input		LVDS (CC1) ※ Positive logic / Negative logic selectable	TTL (Hirose 6 pin connector - pin2, pin5)	2 signal type:EIA-422/TTL 1 signal type:TTL
Serial communication interface		Conforming to GeniCam® CameraLink®: EIA644 Baud Rate: 115200bps (9600bps)	Conforming to GeniCam®	
Power supply	Input voltage range	DC: +12V ~ +24V		DC : +12V±1V
	Current consumption (at DC12V input)	Typical: 330mA, (Max.: 360mA)		T.B.D.
Lens mount		C mount		
Flange back		17.526 mm, Tolerance: 0 ~ -0.05 mm		
Operating temperature/humidity		-5°C ~ +45°C / 20% ~ 80% (non-condensing)		
Storage temperature/humidity		-25°C ~ +60°C / 20% ~ 80% (non-condensing)		
Outlook dimensions		58(W) x 58(H) x 60(D) mm (excluding protrusion and lens mount)		
Weight		270g	280g	270g

Outlook Dimensions

(BV-C3103USB)



Spectral Response



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