WebSite：www.viewsecctv.com
TEL:(+86)13006699017
Sales：0755-86657548

SWIR Series Camera User Manual

SWIR33 Series SenSWIR InGaAs Camera

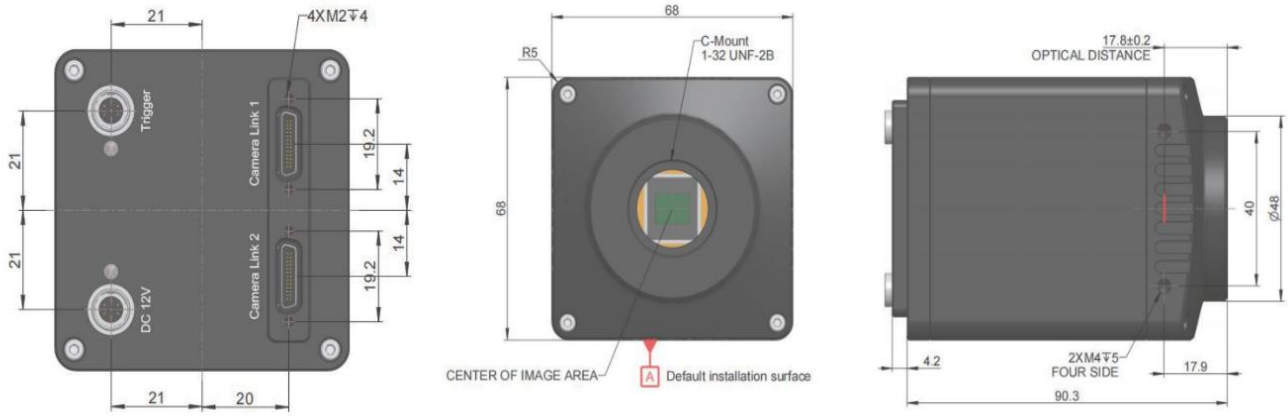
VCI-A1GT+SWIR33 Series | GigE | Cooled Industrial Area Scan Camera Using SenSWIR InGaAs

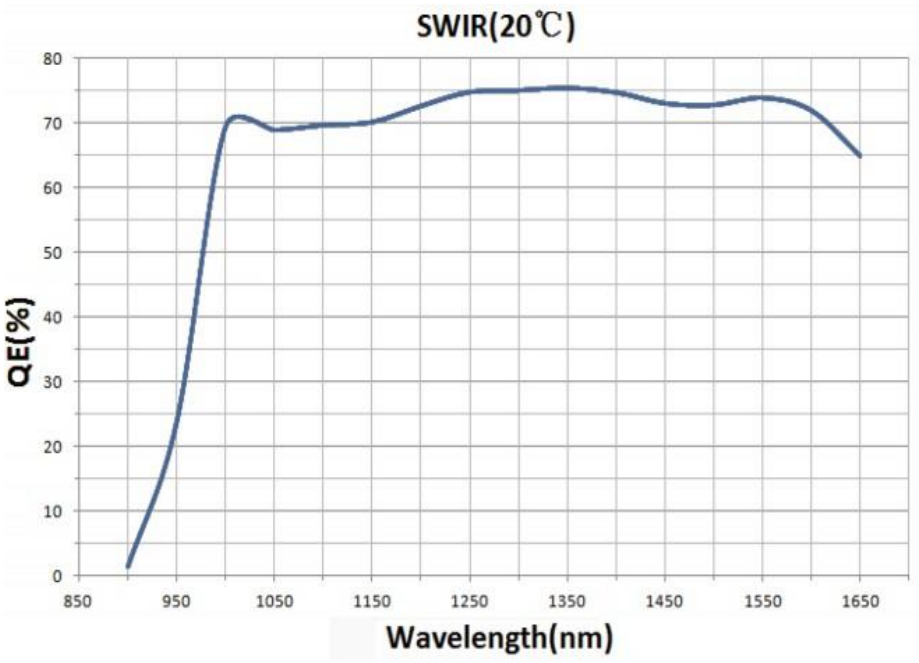
1、724FPS high frame rate
2、InGaAs SWIR Detector
3、640 x 512
4、15um pixel size
5、900nm-1700nm
6、Global shutter
7、Built-in TEC refrigeration chip, the temperature difference can reach 45 degrees Celsius below the ambien temperature
8、PID precise temperature control, the fluctuation is less than 0.3 degrees
9、CameraLink Full / USB3 (under development) / 10GigE (under development)
10、12-bit output (14-bit ADC)
11、Multiple working modes: video mode/soft trigger mode/external trigger mode
12、Support field update firmware
13、Accept OEM custom development

Specification

Model / Parameter	VCI-A1GT033GM-SWIR-B1	VCI-A1GT033GM-SWIR-B3	VCI-A1GT033GM-SWIR-B7
	330,000 pixels 3/4 ” InGaAs GigE Camera		
Sensor model	National production		
Sensor type	InGaAs CMOS image sensor		
Spectral range	900nm - 1700nm		
pixel size	15 μm x 15 μm		
Target size	3/4"		
ADC	8-bit output /14-bit output (14-bit ADC)		
Frame Rate & Resolution	125@640x512	350@640x512	360@640x512，700@320x256
Memory	512MB		
QE	75%@ 1350nm		
Conversion gain	138.6e-/ADU(LG)，5.54e-/ADU(MG)，1.2e-/ADU (HG)		
Dynamic Range	70.59dB(LG)，67.96dB(MG)，47.98dB(HG) *1		
Read noise	586.82e(LG)，35.05e(MG)，68.44e(HG)		
Full well charge	1986426.78e(LG)，87649.83Ke(MG)，17147.351e(HG) *1		
Maximum SNR	62.98dB(LG)，49.43dB(MG)，42.34dB(HG)		
Dark current			
Exposure time range	50us~5s	25us~5s	50us~5s
Shutter mode	Global shutter		
Data interface	GigE		
Digital I/O	1 optocoupler isolated input, 1 optocoupler isolated output		
Data Format	Mono 8 / Mono 14		
Cooling temperature	Below room temperature 40 degrees Celsius		
General parameters			
Power supply	DC12V power supply		
Power consumption			
Temperature	Working temperature -30 ~ 60 ℃, storage temperature - 40 ~ 85 ℃		
Humidity	20%-80% , non-condensing		
Size	68mm×68mm×90.3mm		
Weight	485g		
Lens mount	C-mount interface		
Software	Provide SDK development kit and CL View software base		

Camera Dimensions





The spectral QE of SWIR33 Short-Wavelength Infrared Cameras