



726FPS high frame rate

InGaAs SWIR Detector

640 x 512

15um pixel size

900nm-1700nm

Global shutter

Built-in TEC refrigeration chip, the temperature difference can reach 40 degrees Celsius below the ambient temperature

PID precise temperature control, the fluctuation is less than 0.3 degrees

CameraLink Full / USB3 (under development) / 10GigE (under development)

12-bit output (14-bit ADC)

Multiple working modes: video mode/soft trigger mode/external trigger mode

There are 100% domestically produced device versions or high-performance versions

Support field update firmware

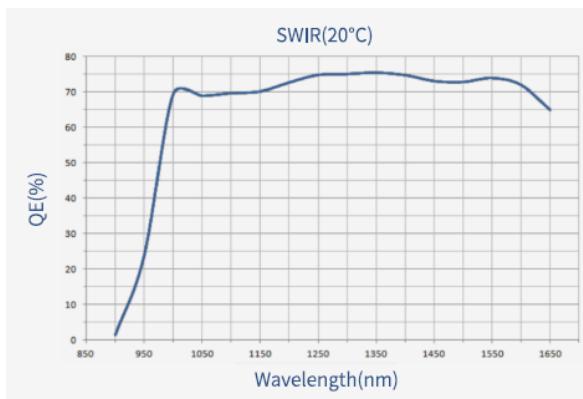
Accept OEM custom development

## Product application

EHD-SWIR331 Short-Wavelength Infrared Camera is a C-mount short-wave infrared cooling camera using a 640 x 512 InGaAs image sensor, which have Cameralink / USB3 (under development) / 10GigE (under development) and other data transmission methods. It has the advantages of 900- 1700nm short-wave infra red wide spectral response, 330,000 resolution, high quantum efficiency and low noise.

EHD-SWIR331 Short-Wavelength Infra red Camera can be widely used in short-wave infra red imaging,spectral imaging, monitoring (night vision), semiconductor detection, medicine and biology, optical fiber communication, astronomy, high temperature imaging, humidity distribution imaging and other applications.

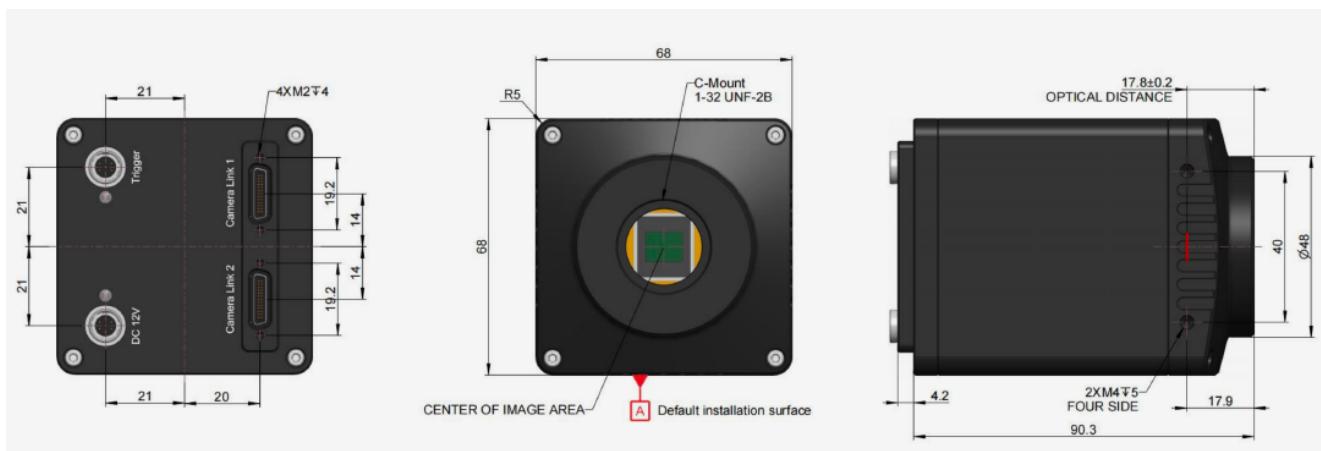
## Sensor Quantum Efficiency



## Camera Interface



## Camera Appearance Dimensions



## Specifications

Model	EHD-SWIR331-CL500		EHD-SWIR331-CL700
Parameter	330,000 pixels 3/4 "InGaAs CameraLink Camera		
Sensormodel	FPA		FPA
Sensortype	InGaAs CMOS image sensor		InGaAs CMOS image sensor
Spectral range	900nm-1700nm		900nm-1700nm 15μmx15
pixelsize	15μm x 15 μm		μm
Target size	3/4"		3/4"
ADC	12-bit output (14-bit ADC)		12-bit output (14-bit ADC)
Frame Rate&Resolution	533fps@640 x 512		726fps@640 x 512
Memory	512MB		512MB
QE	75%@1350nm		75%@1350nm
Conversion gain	HG:106uV/e-(1.5fF) MG:20uV/e-(8.0fF) LG:0.82uV/e-(195fF)		HG:106uV/e-(1.5fF) MG:20uV/e-(8.0fF) LG:0.82uV/e-(195fF)
Dynamic Range	TBD		TBD
Read noise	18e-(HG CDS mode) 60e-(MG CDS mode) 500e- (LG CDS mode)		18e-(HG CDS mode) 60e-(MG CDS mode) 500e- (LG CDS mode)
Full well charge	HG:17Ke- MG:90Ke-		HG:17Ke- MG:90Ke-
Maximum SNR	LG:2.2Me-TBD		LG:2.2Me-TBD
Dark current	30fA@0.1 V&18°C		30fA@0.1 V&18°C 23.81us~1s
Exposure time range	31.25us~1s		Global shutter
Shutter mode	Global shutter		Cameralink Full
Data interface	Cameralink Full		1optocoupler isolated input,
Digital I/O	1optocoupler isolated input, 2non-isolated input and output ports		2non-isolated input and output ports
Data Format	Mono 12		Mono 12
Cooling temp difference	Below room temperature 40 degrees Celsius		Below room temperature 40 degrees Celsius
<b>General parameters</b>			
Power supply Power consumption	DC12V power supply 8.4W (TEC OFF)/<16W (TEC ON)		
Temperature	Working temperature -30 ~ 60 °C, storage temperature -40 ~85 °C		
Humidity	20%-80%, non-condensing		
Size	68mmX68mmX90.3mm		
Weight	485g		
Lens mount	C-mount interface		
Software	Provide SDK development kit and CL View software based on Dalsa acquisition card		