

SWIR33 Series SenSWIR InGaAs Camera

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

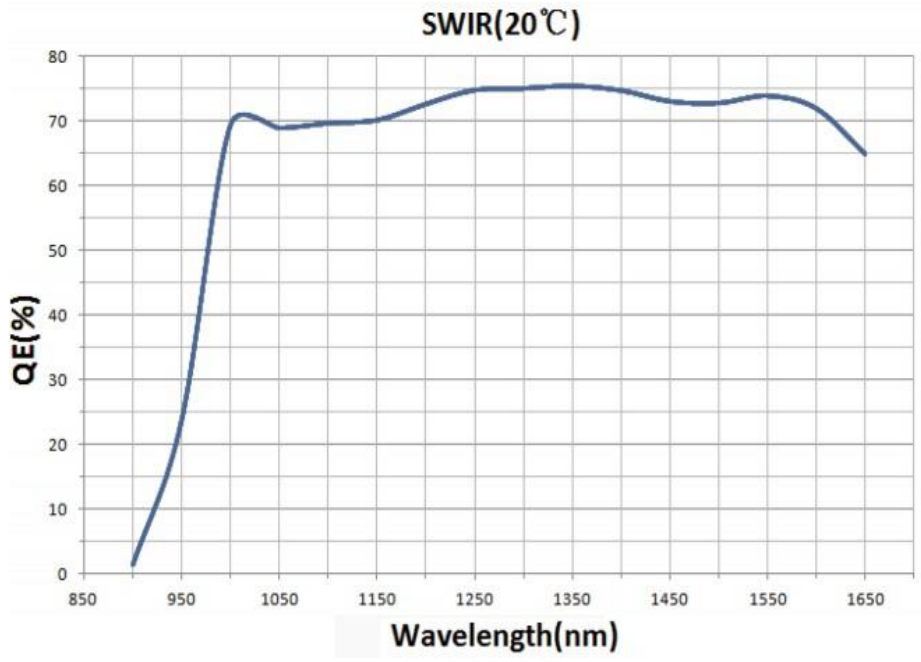
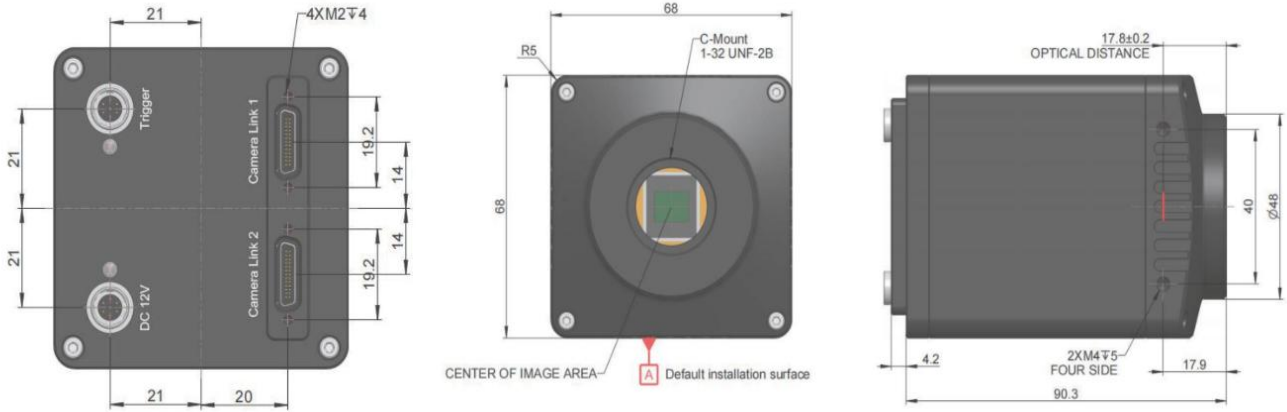
- 1、724FPS high frame rate
- 2、InGaAs SWIR Detector
- 3、640 x 512
- 4、15um pixel size
- 5、900nm-1700nm
- 6、Global shutter
- 7、Built-in TEC refrigeration chip, the temperature difference can reach 45 degrees Celsius below the ambient temperature
- 8、PID precise temperature control, the fluctuation is 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 | VCI-A1GT033GM-SWIR-B1 | VCI-A1GT033GM-SWIR-B3 | VCI-A1GT033GM-SWIR-B7 |
|---------------------------|---|-----------------------|--------------------------|
| Parameter | 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 °C, storage temperature - 40 ~ 85 °C | | |
| 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