

iBoost X SWIR Camera



Key Features

This high-performance industrial camera features a 1.5" InGaAs sensor with a 900-1700nm spectral range (optional 1030-1800nm filter), delivering 200fps@1280x1024 high-speed imaging. Equipped with a global shutter, 14-bit dynamic range, and -30° C~60° C operational stability.

TYPICAL APPLICATIONS



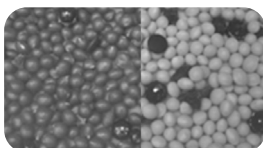
Fruit Spoilage
Detection



Fog Penetration



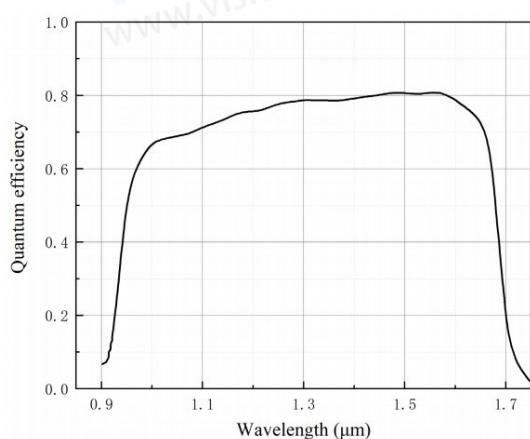
Inspection of Contents
In Packaging



Sorting Materials

- Spectral Range: 900-1700nm
- Up to 200fps@1280x1024 (14-bit) and 14-bit high dynamic range
- Global shutter, USB 3.0、GigE、CameraLink interface
- This camera employs Active Thermoelectric Cooling (TEC) technology to stabilize the sensor temperature at 25° C below ambient

► Spectral Response Curve



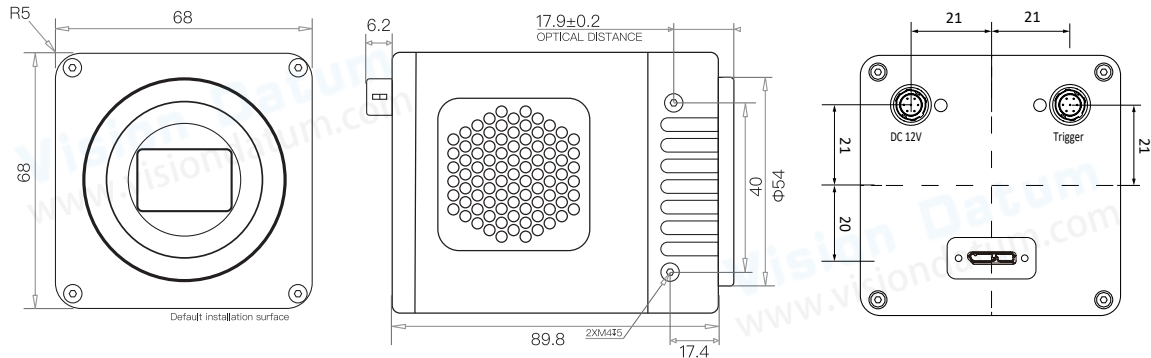
QE Curve

iBoost X SWIR Camera

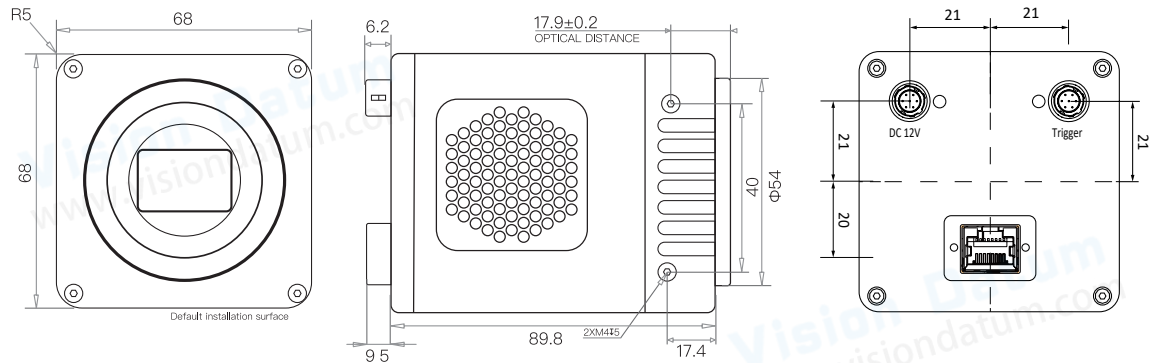
Model	iBX-SWU1280B-200	iBX-SWTG1280B-200	iBX-SWC1280B-200
Sensor Technology	InGaAs CMOS Image Sensor		
Spectral Range	900nm–1700nm		
Pixel Size	15 μm x 15 μm		
Sensor Size	1.5"		
ADC Bit	14–bit		
Resolution	1280 x 1024		
FPS	200fps		
Hardware Image Cache	512MB		
QE	≥ 70@1.55μm		
Interface	USB 3.0	10GigE	CameraLink Full
Cooling	40° C below ambient temperature		
Data Format	Mono 8 / Mono 14 / Packet12	Mono 8 / Mono 14	Mono 14
Size	68*68*89.8mm (485g) (Dimensions A)	68*68*89.8mm (485g) (Dimensions B)	68*68*89.8mm (485g) (Dimensions C)
Conversion Gain	1μV/e– (LG), 16μV/e– (MG), 53.3μV/e– (HG)		
Dynamic Range	70.59dB(LG), 67.96dB(MG), 47.98dB(HG) * (For reference only)	69.2dB(LG), 63.2dB(MG), 57.4dB(HG) * (For reference only)	
Read Noise	586.82e(LG), 35.05e(MG), 68.44e(HG) (For reference only)	1.3DN(LG), 2.7DN(MG), 5.0DN(HG) (For reference only)	
Full Well Capacity	1.9Me– (LG), 118.75Ke– (MG), 33.75Ke–(HG) *		
SNR	62.98dB(LG), 49.43dB(MG), 42.34dB(HG) (For reference only)	65.4dB(LG), 48.5dB(MG), 40.7dB(HG) (For reference only)	
Dark Current	30fa@0.1V&18°C (For reference only)		
Exposure Time	16us–1s	25us~5s	16us–1s
Shutter	Global		
Digital I/O	1 opto–isolated input, 1 opto–isolated output, 2 non–isolated input and output		1 opto–isolated input, 1 opto–isolated output
Power Supply	DC 12V		
Power Consumption	8.4W (TEC OFF) / <16W (TEC ON)		
Temperature	–40~85 ° C (Storage), –30~60° C (Working)		
Humidity	20%–80% RH, non–condensing		
Lens Mount	M42		
Software	Full SDK Package / iBoostX		

*: LG: CDS-OFF, DeNoise-ON; MG: CDS-ON, DeNoise-OFF; HG: CDS-ON, DeNoise-OFF.

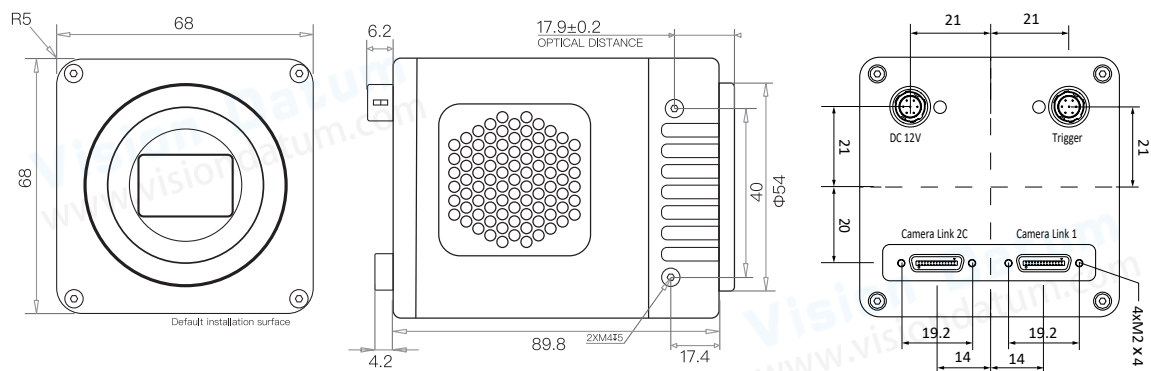
iBoost X SWIR Camera



Dimensions A



Dimensions B



Dimensions C

FOR MORE INFORMATION CONTACT



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