FPA0640P15L-17-T1a: with 1-Stage Thermoelectric Cooler

FEATURES

- 640 x 512 pixel resolution
- 0.9µm-1.7µm Spectral Range
- CLPT InGaAs image sensor
- Up to 500fps @ full resolution
- Global shutter
- CameraLink Full interface
- ROI in x- and y-direction increases frame rate
- Snapshot ITR/IWR Modes
- Exposure Time can be adjusted

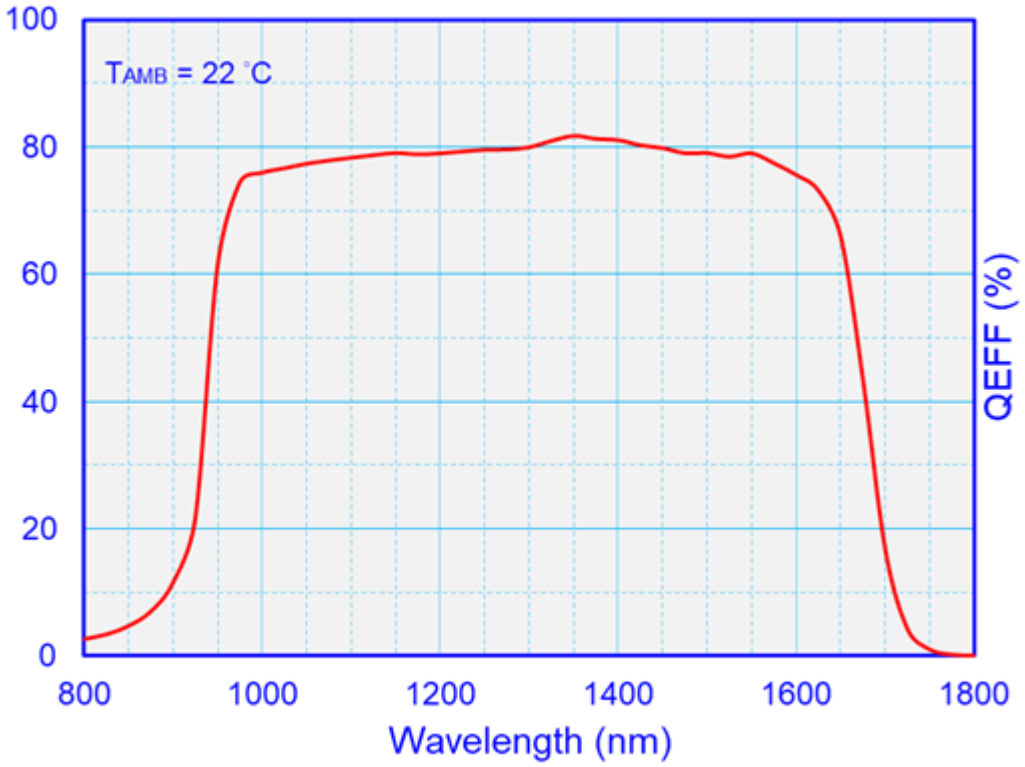
APPLICATIONS

- Near-Infrared Imaging
- Covert Surveillance
- Semiconductor/Solar Panel Inspection
- Medical Science and Biology
- Fiberoptic Telecommunication
- See through Fog / Smoke
- Ice / Slush / Moisture Mapping
- Industrial Thermal Imaging
- Astronomy and Scientific





Quantum Efficiency Image Sensor



Camera Specification

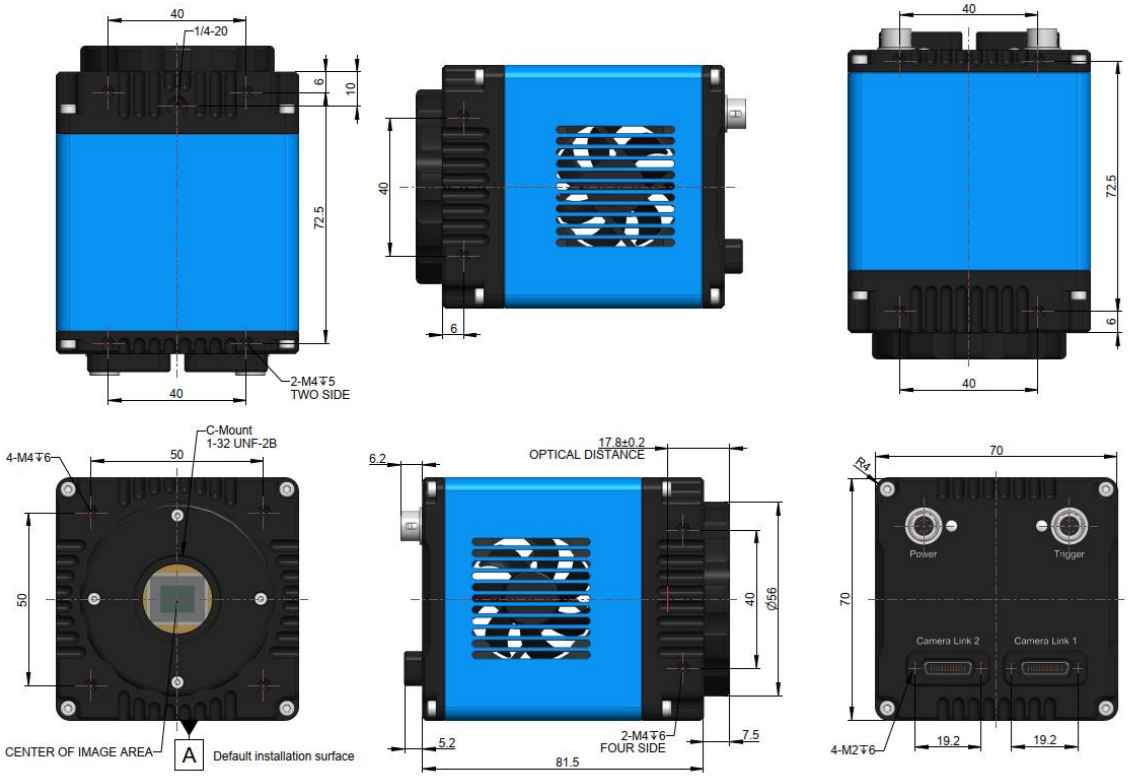
Sensor Model	640P15L-17-T1a
Sensor Type	InGaAs CMOS sensor
Spectral Range	0.9um-1.7um
Pixel Size	15um
Sensor Size	3/4''
Backfocus Length	17.8±0.2mm
Diagonal	12.3mm
ADC	14-bit
Frame Rate& Resolution	500fps@640 x 512
Image Buffer	512MB
QE	>70%
Conversion Gain	1032.066e/ADU(LG)，38.628e/ADU(MG)，4.898e/ADU(HG)
Dynamic Range	80.272dB(LG)，75.974dB(MG)，58.045dB(HG)
Readout Noise	1522.746e^-(LG)，93.984e^-(MG)，91.351e^-(HG)
Full Well	15.71Me^-，591.25Ke^-(MG)，72.94Ke^-(HG)
SNRmax	71.963dB(LG)，57.718dB(MG)，48.629dB(HG)

Dark Current	<30fA @0.5V 20℃(This parameter is for reference only, please refer to the actual situation)
Exposure Time	16us~1s
Shutter Type	Global Shutter
Data Interface	CameraLink Full
Digital IO	One optical-coupling isolated input, one optical-coupling isolated output,
Data Format	Mono 14
Cooling Performance	Δt=45℃
Dark Correction	Supported
Bad Pixel Correction	Supported
Flat Field Correction	Supported
ROI	Supported

General Specification

Power Supply	DC12V
Power Consumption	TBD
Temperature	Working Temperature -30~60℃. Storage Temperature-40~85℃
Humidity	20%-80%, no condensation
Camera Size	70*70*95.2mm (including height of the trigger port and C-mount)
Camera Weight	0.53KG
Mount Type	C Mount
Software	Provide SDK development kit and CLView Software based on Delsa acquisition card

Dimensions


40
1/4-20
6
10
72.5
2-M4↧5
TWO SIDE
40
40
6
40
72.5
6
40
4-M4↧6
50
C-Mount
1-32 UNF-2B
50
CENTER OF IMAGE AREA
A
Default installation surface
6.2
17.8±0.2
OPTICAL DISTANCE
40
Ø56
5.2
2-M4↧6
FOUR SIDE
7.5
81.5
R4
70
Power
Trigger
70
Camera Link 2
Camera Link 1
4-M2↧6
19.2
19.2