

BL01



Blade Series CVBS camera

BL01 is an ultra-low latency system with high dynamic range specifically designed for tactical UAVs and FPV operations.

- Optimized for environments that require immediate visual feedback and precise control.
- Ruggedized for deployment in challenging operational conditions.



Modal	BL01
Dimension	19*19*26mm
Weight	9.5 g
Resolution	>1500TVL
Shutter	Rolling Shutter
Lens	5 Mega
FOV	DFOV 140°, HFOV 110°, VFOV 60°
Signal System	CVBS/USB
Image Sensor	1/2.8" Inch sensor
TV System	NTSC & PAL (changeable)
Aspect Ratio	16:9 & 4:3 (changeable)
WDR / HDR	Super WDR (HDR), >100dB
Min. Illumination	0.01 lux
Electronic Shutter	PAL: 1/50~100,000; NTSC: 1/60~100,000
S/N Ratio	≥60dB (AGC OFF)
DNR	3-DNR

BT01



Blade Thermal Series – EO/IR Cameras

BT01 is a lightweight EO/IR solution for mobile vehicles applications. Supporting EO 1920 × 1080, IR resolution 160 × 120. Offers customization services, including firmware tuning and lens selection.



Modal	BT01
Dimension	19 × 33 × 28 mm
Weight	26 g
Housing	Aluminum
EO Resolution	1920 × 1080
Shutter	Rolling Shutter
Lens	5 Mega
Signal System	USB
Input Voltage	4.5V ~ 27V
Current Consumption	< 80 mA
Operating Temperature	-10 degree ~ +80 degree
Humidity Test	40°C / RH90% (2hr), 0°C / RH20%~40% (1hr), Total 24 cycles (72hr)
IR Resolution	160 x120
Pixel Pitch	12 um
Frame Rate	8.7Hz
FOV - Horizontal	57
FOV - Diagonal	71
F number	f/1.1

PL01

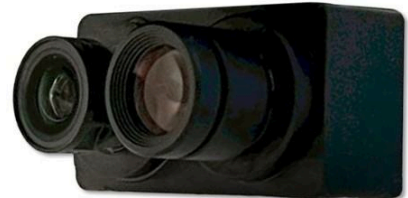


Pulse Series EO camera

PL01 is a flagship high-zoom EO camera solution, designed for extended surveillance and automation applications cross various industries.

It features a 17.8x optical zoom lens with both wide-angle and telephoto optical designs.

Supporting multiple imaging interfaces including USB and HDMI, the camera also integrates a built-in IMU, delivering stable and reliable performance.



Modal	PL01
Dimension	22 × 42 × 22 mm
Weight	26 g
EO Resolution	Image sensor: 20M Output resolution: 1920x1080 /30fps
Power consumption	1.6W, 320mA
Lens	Wide: HFOV 80 Deg +/-5 deg Tele : HFOV 16 deg +/- 1 deg
Video interface	HDMI / USB
Zoom	35x (Optical 17.8x. Digital 2x) Zoom ratio: 0.1x NIIRS6 compatible
LWIR Camera interface	USB bypass. Single coaxial cable integrated
IMU	LSM6DSO Interface: SPI

PT01

Pulse Thermal Series – EO/IR Cameras

PT01 is current flagship high-zoom EO solution PL01 compatible with Prime Thermal LWIR Camera, featuring an optimal resolution of 640 × 512 pixels.



Modal	PT01
Dimension	26 × 42 × 43 mm
Weight	58 g
EO Resolution	Image sensor: 20M Output resolution: 1920x1080 /30fps
Power consumption	1.6W, 320mA
Lens	Wide: HFOV 80 Deg +/-5 deg Tele : HFOV 16 deg +/- 1 deg
Video interface	HDMI / USB
Zoom	35x (Optical 17.8x. Digital 2x) Zoom ratio: 0.1x NIIRS6 compatible
LWIR Camera interface	USB bypass. Single coaxial cable integrated
IR Resolution	640x512
Pixel Pitch	12 um
Frame Rate	Typ. 30Hz
NETD(mK)	<40mk (@F/1.0,300K)
Detector Type	Vox
FOV	9mm FOV 48.8°×38.8° (standard) 13.4mm FOV 31.98°×25.82° (standard) 19mm FOV 23.2°×18.7°
Color Palette	Black hot, white hot, iron red, rainbow
Contrast / Brightness	Manual
Output format (UVC)	USB 2.0
Video Format	MJPG / YUYV
Operating Temperature	-20°C ~ +70°C

