PB6516
Series

Long Range Thermal Imaging Hybrid Camera

Up to 20km for Vehicle detection & 15 Km for recognition

640X512 -5th Gen uncooled Thermal

2 MP or 4 MP HD Zoom Camera

72X , 86X or 92X Optical Zoom

Rugged , Integrated PT platform

IP66 Standard

Designed for Extreme weather condition.

Support Radar Integration Option, Fire Detection , Auto tracking options

View over

PB6 series is a TOP LOAD Long Range IR Thermal Imaging Camera platform that are developed based on the latest fifth generation uncooled infrared technology and continuous zoom infrared optical technology. The 17 µm uncooled focal plane imaging detector with high sensitivity and adopt 640 × 512/1280 × 1024 resolution. Equipped with high resolution daylight camera with defog function for day time details observation.

One integral aluminum alloy housing makes sure the camera works in all extreme weather condition. In combination with 360-degree Pan & Tilt, the camera is capable of conducting 24 hours real-time monitoring. The camera is IP66 rated, which ensures camera´s normal operation under tough weather conditions.
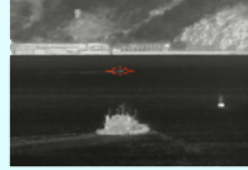
Dual Sensors One IP

Auto Track

High Resolution

Features

- **Thermal:** 31-155mm thermal lens, 5X continuously zoom
- **Visible:** 6.1-440mm/6.1-561mm/10-860mm visible lens, 72X/92X/86X optical zoom
- NETD 45mk enhance the imaging details even in foggy/rainy/snowy weather.
- Special AS optical zooming lens and 3CAM high-precision optomechanical.
- Function of life index recording for thermal camera.
- Non-uniform image correction technology, good image uniformity and dynamic range.
- SDE digital image processing, no image noise, 16 pseudo color images.
- Visible camera support EIS, optical defog, HLC, BLC, 3D noise reduction, 120dB.
- One integral aluminum alloy housing, weatherproof IP 66, waterproof, anti-dust.
- One IP address optional: Visible, thermal camera can view, set and control by one IP address.

Specifications

Model		PB6516-2272	PB6516-2292	PB6516-4286
Visible Effective Distance (DRI)	Visible Model	2272	2292	4286
	Vehicle (2.3*2.3m)	Detection: 15km; Recognition: 8km; Identification: 5km	Detection: 18km; Recognition: 10km; Identification: 7km	Detection: 20km; Recognition: 15km; Identification: 10km
	Human (1.8*0.6m)	Detection: 6km; Recognition: 4km; Identification: 1.5km	Detection: 8km; Recognition: 5km; Identification: 2km	Detection: 10km; Recognition: 6km; Identification: 3km
Thermal Effective Distance (DRI)	Vehicle (2.3*2.3m)	Detection: 13km; Recognition: 3.4km; Identification: 1.7km		
	Human (1.8*0.6m)	Detection: 4.8km; Recognition: 2.5km; Identification: 1.3km		
	Fire Detection	10km (6km for 2*2m fire)		
	IVS Range	4.6km for Vehicle; 1.6km for Human		
Thermal Sensor	Sensor	5th generation uncooled FPA sensor		
	Effective Pixels	640x512, 50Hz (384 and 1280 pixel optional)		
	Pixel Size	17μm		
	NETD	≤45mK		
	Spectral Range	7.5 ~ 14μm, LWIR		
Thermal Lens	Focal length	31-155mm, 5X		
	FOV (640*512)	20°×15°~4°×3°		
	Angular radian	0.56~0.11mrad		
	Digital Zoom	1~64X Continuously zoom (step:0.1)		

Visible Camera (different lens optional)	Sensor	1/1.8'' Star Level CMOS, Integrated ICR Dual Filter D/N Switch		
	Resolution	1920(H)x1080(V) / 2560(H)x1440(V)		
	Frame Rate	32Kbps~16Mbps, 60Hz		
	Min. Illumination	0.0005Lux(Color), 0.0001Lux(B/W)		
	SD Card	Support		
Visible Lens	Lens Focal Length	6.1~440mm	6.1~561mm	10-860mm
	Lens Zoom	72X	92X	86X
	Image Stabilization	Support		
	Optical Defog	Support		
	Focus Control	Manual/Auto		
	Digital Zoom	8X	8X	16X
Image	Image Stabilization	Support Electronic Image Stabilization		
	Enhance	Stable operational temperature without TEC, starting time less than 4 seconds		
	SDE	Support SDE digital image processing		
	Pseudo Color	16 pseudo color and B/W, B/W inverse		
	AGC	Support		
	Ranging Ruler	Support		
Enhance	Strong Light Protect	Support		
	Temp Correction	Thermal imaging clarity is not affected by temperature.		
	Scene mode	Support multi-configuration scenarios, adapt to different environment		
	Lens Servo	Support lens preset, focal length return and focal length location.		
	Azimuth Information	support angle real-time return and positioning; azimuth video overlay real-time display.		
	Parameter Setting	OSD Menu Remote Call Operations.		
	Diagnostic Functions	Disconnection alarm, support IP conflict alarm, support illegal access alarm (illegal access times, lock time can be set), support SD card abnormal alarm (SD space is insufficient, SD card error, no SD card), video masking alarm, anti-sun damage (support threshold, masking time can be set).		
	Life Index Recording	Working time, shutter times, ambient temperature, core device temperature		
Intelligent (One IP Only)	Fire Detection	Threshold 255 levels, targets 1-16 can be set, hot spot tracking		
	AI Analysis	Support intrusion detection, boundary crossing detection, entering/leaving area detection, motion detection, wandering detection, people gathering, fast moving, target tracking, items left behind, items taken; people/vehicle target detection, face detection; and support 16 area settings; support intrusion detection people, vehicle filtering function; support target temperature filtering		
	Auto-tracking	Single/multi scene tracking; panoramic tracking; alarm linkage tracking		
	AR Fusion	512 AR intelligent information fusion		
	Distance Measure	Support passive distance measurement		
	Image fusion	Support 18 kinds of double light fusion mode, support picture-in-picture function		
PTZ	Patrol	6*patrol route, 1* patrol line		
	Rotation	Pan: 0~360°, tilt: -45~+45°		
	Speed	Pan: 0.01~30°/S, Tilt: 0.01~15°/S		
	Preset	3000		
	Enhance	Fan/Wiper/Heater attached		
Video Audio (Single IP)	Thermal Resolution	1920×1080; 1280×1024; 1280×960; 1024×768; 1280×720; 704×576;640×512; 640×480; 400×300; 384×288; 352×288; 352×240		
	Visible Resolution	2560×1440; 1920×1080; 1280×1024; 1280×960; 1024×768; 1280×720; 704×576; 640×512; 640×480; 400×300; 384×288; 352×288; 352×240		
	Record Rate	32Kbps~16Mbps		
	Audio encoding	G.711A/ G.711U/G726		
	OSD settings	Support OSD display settings for channel name, time, gimbal orientation, field of view, focal length, and preset bit name settings		
Interface	Ethernet	RS-485 （PELCO D protocol, baud rate 2400bps, RS-232 （option）, RJ45		
	Protocol	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ONVIF		
	Video Output	PAL/NTSC		
	Power	AC12V /DC24V		
	Compression	H.265 / H.264 / MJPEG		
Environmental	Operate Temp	-25℃~+55℃-40（optional）		
	Storage Temp	-35℃~+75℃		
	Humidity	<90%		
	Ingress Protect	IP66		
	Housing	PTA three-resistance coating, Seawater corrosion resistance, Aviation waterproof plug		
	Anti-fog/salty	PH 6.5~7.2		
	Power	120W (Peak)		
	Weight	45kg		

Malaysia solution provider