

Thermal & Optical Bi-Spectrum Network Speed Dome



PB-T23850-Z 36x Thermal & Optical Bi-spectrum Network Speed Dome use a vanadium oxide uncooled focal plane sensor to enhance thermal image quality. The high sensitivity sensor has 384 x 288 resolution and features contrast adjustment for optimized images. AGC (Automatic Gain Control), 3D DNR (Dynamic Noise Reduction), and Dynamic Detail Enhancement further enhance image quality.

This series of cameras also features advanced fire detection and a wide range of Smart functions, including temperature exception, line crossing, intrusion, and region entrance and exit, benefiting users with great improvements in security efficiency and, more importantly, with key events and objects being recorded for further forensic needs. The cameras are outfitted with 50 mm lens to cover a variety of needs.

- 384 x 288 Resolution
- Vanadium Oxide Uncooled Focal Plane Arrays
- 50 mm Lens
- NETD <40 mk
- Adaptive AGC, 3D DNR
- Dynamic Detail Enhancement
- Visible Imager: 2 MP 1/1.9" CMOS
- 36x Optical Zoom, 16x Digital Zoom
- Smart Features:
 - Line Crossing, Intrusion, Region Entrance/Exit
 - Temperature Exception
 - Advanced Fire Detection
 - Smart Tracking

- Temperature Range: -4° F to 1,022° F (-20° C to 550° C)
- Temperature Accuracy:
 Maximum (± 8° C, ± 2%)
- 15 Psuedo Colors Adjustable
- IP66 Protection
- 24 VAC, 60 W









PB-T23850-Z 36x



Thermal Module	
	Vanadium oxide uncooled focal plane arrays
Maximum Resolution	
Detector Pitch Response waveband	
	< 40mk (\(0 25^\circ C, F # = 1.0 \)
Lens (focal length)	
	0.34 mrad
	7.47° × 5.61°
Minimum Focusing Distance	7.5 m
F number	1.0
Optical Camera	
	1/1.9" progressive scan CMOS
	Color: 0.002 lux @ (F1.5 , AGC 0n); B/W : 0.0002 lux @ (F1.5 , AGC 0n)
	5.7 to 205.2 mm, 36x
Digital Zoom	58.7° to 2.0° (wide to tele)
	10 to 1,500mm (wide to tele)
Aperture Range	
	Auto / semiautomatic / manual
	120(8
Shutter Time	PAL: 1 to 1/30,000s / NTSC: 1 to 1/30,000s
White Balance	Auto / manual / ATW / indoor / outdoor / daylight lamp / sodium lamp
Day & Night	IR Cut Filter
	24 privacy masks programmable; optional multiple colors and mosaics
Optical Defog	
Enhancement	3D DNR
Smart Function	Constant (VICA with time Illian region interests and region and region within 10 and 0 VICA with face of
	Supports 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10 scenes, and 8 VCA rules for each scene Supports 3 temperature measurement rule types, over 256 presets, and 21 rules (10 points, 10 regions, and 1 line) for each scene
	-4° F to 302° F (-20° C to 150° C)
Temperature Accuracy	
	Supports 10 fire points
PTZ	Supporte 26 me panite
Movement Range	Pan: 360° continuous rotate; tilt: from -15° to + 90° (auto flip)
	Configurable, from 0.1°/s to 160°/s, preset speed: 240°/s
Tilt Speed	Configurable, from 0.1°/s to 120°/s, preset speed: 200°/s
Proportional Zoom	
Presets	
	8; up to 32 presets per patrol
Pattern Scan Power Off Memory	4; more than 10 minutes per pattern
	Preset / pattern scan / patrol scan / auto scan / tilt scan / random scan / frame scan / panorama scan
	Turn on / turn off
	Preset / pattern scan / patrol scan / auto scan / tilt scan / random scan / frame scan / panorama scan / doom reboot / doom adjust / aux output
Infrared	
IR Distance	Up to 655 ft (200 m)
IR Intensity and Angle	Auto adjust
Network	
Main Stream	Optical: 50 Hz: 25 fps (1920×1080), 25 fps (1280×960), 25 fps (1280×720); 60 Hz:30 fps (1920×1080), 30 fps (1280×960), 30 fps (1280×720)
Cub Ctroom	Thermal: 50 fps (640 × 512) 50 Hz:25 fps (704 × 576), 25 fps (352 × 288), 25 fps (176 × 144); 60 Hz:30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120)
งนม-งเเซลเเเ	50 H2:25 IPS (704 × 576), 25 IPS (352 × 266), 25 IPS (176 × 144); 60 H2:30 IPS (704 × 460), 30 IPS (352 × 240), 30 IPS (176 × 120) Thermal: 50 fps (640 × 512)
Video Compression	H.264 (Baseline/Main/High Profile) / MJPEG / MPEG4
	G.711u / G.711a / G.722.1 / MP2L2 / G.726 / PCM
Protocols	IPv4 / IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
Simultaneous Live View	
	Up to 32 users, 3 levels: administrator, operator, user
	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Integration	Up to 7-ch inputs (0 to 5 VDC)
	Up to 2-ch relay outputs, supports alarm linkage
	Preset / patrol scan / pattern scan / SD card record / relay output / smart capture / FTP upload / email linkage
	Line in input / microphone input; peak; from 2 to 2.4 V[p-p]; output impedance: 1kfl ± 10%
	Linear level; impedance: 600Ω
Communication Interface	Built-in RJ45; 10M/100M Ethernet Interface
	Built-in microSD / SDHC / SDXC card slot, up to 64 GB; supports manual / alarm recording
	1 RJ45 10M/100M Self-adaptive Ethernet interface
	1.0V [p-p]/75 D, PAL / NTSC / BNC
	Half-duplex; HIKVISION, PELCO-P and PELCO-D self-adaptive
	Open-ended API, supports ISAPI; supports HIKVISION SDK and third-party management platforms
	iVMS-4200 IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+; Multiple Languages
General	1E 77, OHOHIG 107, HIGHA J.UT, Salah J.UZT, Mukhig Langudyes
	English
	24 VAC, 60 W
	From -40° F to 140° F (-40° C to 65° C); Humidity: 90% or Less
	IP66 standard; TVS 6000V lightning protection, surge protection and voltage transient protection
Weight	17.64 lbs (8 kg)

PB-T23850-Z 36x



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Range Performance¹

Standard Danga Tabla	Model			
Standard Range Table	PB-T23850-Z 36x			
Johnson Criteria	Human	Vehicle		
Detection	4,826 ft (1,471 m)	14,797 ft (4,510 m)		
Recognition	1,207 ft (368 m)	3,698 ft (1.127 m)		
Identification	604 ft (184 m)	1,850 ft (564 m)		

Smart Functions Range Table		Model
Line Cross/Intrusion/Region Entrance-Exit	Object	PB-T23850-Z 36x
Optimized to Johnson Criteria	Human	1,181 ft (360 m)
(Recognition)	Vehicle	3,698 ft (1,127 m)
Temperature Exception	Size of Point	Max Range
Accuracy at 5 x 5 pixels	2 m x 2 m	3,839 ft (1,170 m)
Accuracy at 3 x 3 pixets	1 m x 1 m	1,936 ft (590 m)
Advanced Fire Detection	Size of Point	Max Range
Accuracy at 2 x 2 pivole	2 m x 2 m	9,646 ft (2,940 m)
Accuracy at 2 x 2 pixels	1 m x 1 m	4,822 ft (1,470 m)

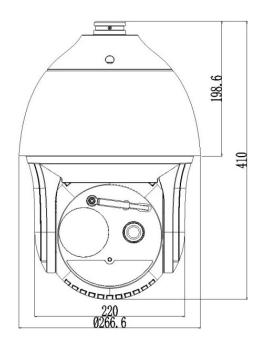


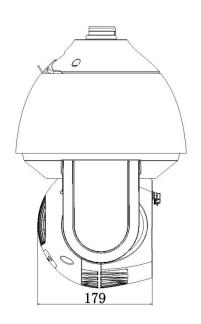
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Accessories



Dimensions





Units: mm