4" 2MP 20x Network IR Speed Dome



TD-8423IS (PE/20M/AR15)

- 1/2.8" 2MP progressive scan CMOS
- Up to 1920 x 1080@30fps resolution
- Min. illumination: Color: 0.005 Lux@(F1.6, AGC ON) B/W: 0.001 Lux@(F1.6, AGC ON) 0 Lux with IR
- 20× optical zoom, 16x digital zoom
- WDR, HLC, BLC, 3D DNR, Defog
- Up to 150m smart IR distance
- PoE (802.3 at class 4)
- Support H.265+/H.265 video compression





System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 2MP full high definition resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Features

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, and substantially improved video quality at the same bit rate, compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and different coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

• Smart IR (2.0)

The product updates its IR lighting sub-system to Smart IR 2.0. The Infrared illumination lens adopts new freedom surface design pattern , and improves the uniformity of illumination above 0.5, compared to 0.3 of the older TIR fashion. And the new hardware is able to accurately adjust the IR LED driving current, step by step. Mixing the auto-exposure algorithm and IR LED control algorithm together makes the IR brightness control self-adaptive and no more over-exposured for most conditions.

• Smart TM 1.0 (Thermal Management)

The camera has built-in temperature sensor, high-efficient turbofan, as well as high power heater. The system uses PID control algorithm to adjust the turbofan's speed and heater's power to make the camera working in a suitable temperature chamber.

Superior Image Quality

The product adopts high MTF 20x zoom lens and Sony latest STARVIS image sensor so that it can capture vivid color image at low light conditions, avoid Smear for very bright objects, such as street road lamp, car's bright lamp, and output high-quality image. Besides, when WDR is selected, the camera will combine long exposure frame and short exposure frame into one frame-the so called physical WDR (true WDR).

Working Environment and Interoperability

This product is rated for use in temperatures from -30 °C to +55 °C , under 90% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating, makes it work well outdoor. The special design eyebrow upon the lens window, which could reduce the lens temperature and avoid the image flare when the sun direct glare the camera lens. This product allows for 4KV lightning rating, which provides effective protection against lightning.

The camera conforms to the ONVIF specifications, ensuring interoperability between network video products regardless of manufacturer.

SPECIFICATION

Camera Module				
Image Sensor	1 / 2.8 "progressive scan CMOS			
Min. Illumination	Color: 0.005 lux @F1.6, AGC ON B/W: 0.001 lux @F1.6, AGC ON 0 lux with IR			
White Balance	Auto/Manual/ATW (Auto-tracking WB)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp			
S/N ratio	More than 50dB			
Gain	Auto/Manual			
Shutter Time	50Hz: 1/1s~1/25, 000 s; 60Hz: 1/1s~1/30, 000 s			
Day&Night	IR Cut Filter			
Privacy Mask	4 programmable privacy masks			
Focus Mode	Auto/Manual			
WDR	True WDR, 2 frames in one			
Lens				
Focal Length	5.5-110mm, 20x optical zoom			
Zoom Speed	Approx. 3.5s (optical lens, Wide-TELE)			
Field of View	Horizontal field of view: 52.01° to 1.78° (Wide-TELE) Vertical field of view: 29.30° to 3.15° (Wide-TELE) Diagonal field of view: 59.79° to 3.62° (Wide-TELE)			
Working Distance	Wide:1.0m~INF Tele: 1.5m~INF			
Aperture Range	F1.6 (Wide) to F3.5 (TELE)			
IR				
IR Distance	150m			
Smart IR	Support			
PTZ				
Pan Range	360° endless			
Pan Speed	Configurable, from 0.5°/s to 80°/s; Preset speed: 80°/s			
Tilt Range	From -5° to 90° (auto-flip)			
Tilt Speed	Configurable, from 0.5°/s to 80°/s; Preset speed: 80°/s			
Proportional Zoom	Support			
Preset	360			
Cruise	8 cruises, up to 16 presets for each cruises			
Trace	4 traces, record time over 3 minutes for each trace			
Power-off Memory	Support			
Action Mode	Preset/Cruise/Trace/Auto Scan/Random Scan			
3D Postioning	Support			
PTZ Position Display	Support			
Scheduled Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning/Dome Reboot			
Compression Stand	ard			
Video Compression	H.265 / H.264 / MJPEG			
H.264 Type	Baseline Profile/Main Profile/High Profile			
H.265 Type	Main Profile			
Video Bit Rate	128Kbps ~ 6Mbps			
SVC	Support			
Smart Features				
Basic Event Smart Event	Object Removal Detection, Intrusion Detection, Line Crossing			
Smart Record	Detection, People Intrusion and People Counting ANR (Automatic Network Replenishment)			
Image				
Max. Resolution	1920×1080			
ax. 110501dtl011	50Hz:25fps(1920×1080, 1280×720)			
Main Stream				

Sub Stream	50Hz:25fps(1280×720, D1, CIF) 60Hz:30fps(1280×720, D1, CIF)		
Third Stream	50Hz:25fps(D1, 480×240, CIF) 60Hz:30fps(D1, 480×240, CIF)		
Image Enhancement	WDR/HLC/BLC/3D DNR/Defog/Regional Exposure/Regional Focus		
Network			
Network Storage	Built-in micro SD card slot, up to 128GB		
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE		
API	ONVIF, support TVT API and third-party management platform		
Simultaneous Live View	Up to 6 channels		
User/Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User		
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering		
Client	VMS-9000 Client		
Web Browser	IE8-11, Chrome 31.0 to 44, Firefox 30.0 to 51		
Interface			
Network Interface	1 RJ45 10M/100M Ethernet, PoE (802.3at, class4)		
General			
Power	12VDC, 2.0A and PoE (802.3at, class 4); 42.5 to57 VDC, 0.6A, Class4 Max.18W, including max.7W for IR		
Working Environment	-30°C~55°C(-22°F~131°F), ≤ 90% RH		
Protection Level	Level IP 66 Standard, 4000V Lightning Protection, Surge Protection and Voltage Transient Protection		
Material	ADC12, PC, PC+10%GF		
Dimensions	Φ 173mm × 247mm (Φ6.8" × 9.7")		
Weight	Approx. 2.1KG (4.63lb)		

DORI

 $\label{eq:decomposition} DORI \ (\ detect, observe, recognize, identify) \ distance \ gives \ the \ general \ idea \ of \ the \ camera \ ability \ to \ distinguish \ persons \ or \ objects \ within \ its \ filed \ of \ view.$

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance(Tele)	1600m 5240ft)	635m(2083ft)	320m (1050ft)	160m(525ft)

ORDERING INFORMATION

Туре	Model	Description	
2MP PTZ Camera	TD-8423IS (PE/20M/AR15)	2MP 20x IR Network Speed Dome, 12V&PoE	
	TD-YZJ0807	Ceiling Mount	
	TD-YZJ0808	Wall Mount	
	TD-YZJ0501	Pole Mount	
Accessories	TD-YZJ0601	Corner Mount	
	LAS30-57CN-RJ45	30W Hi-power PoE Midspan	
	ONV-POE31004PL-at	30W Hi-power PoE Switch 4+1	
	TD-K11-W	Network Keyboard	
	TD-K22	Network Keyboard (Color Screen)	

Orange color function--coming soon

ACCESSORIES

Optional:



TD-YZJ0808 Wall Mount



TD-YZJ0807 Ceiling Mount



TD-YZJ0701
In-Ceiling Mount



TD-YZJ0501 Pole Mount



TD-YZJ0601 Corner Mount



TD-K11-W Network Keyboard



TD-K22 Network Keyboard (Color Keyboard)



LAS-57CN-RJ45 30W Hi-Power PoE Midspan

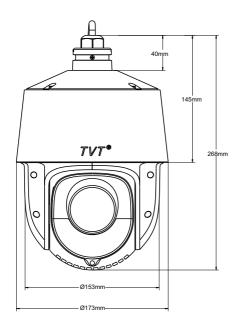


ONY-PoE31004PL 30W Hi-Power PoE Switch

TD-YZJ0807	TD-YZJ0808	TD-YZJ0808+TD-YZJ0501	TD-YZJ0808+TD-YZJ0601	YZJ0701E
Ceiling Mount	Wall Mount	Pole Mount	Corner Mount	In-Ceiling Mount



DIMENSIONS



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