## Network PTZ Camera | VTU-PSO0725-D

# 2MP 25x Starlight IR Network PTZ Camera



VTU-PSO0725-D is a series of AI products and solutions that adopts independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. It provides intelligent, simple and inclusive products and solutions.

#### **System Overview**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day.

#### **Functions**

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

#### **Auto-tracking**

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

#### **Face Detection**

Supports 6 attributes and 8 expressions: Gender, age, glasses, mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

#### **Features**

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- · Powerful 25x optical zoom.
- · Max.50/60fps@2M.
- IR distance up to 150 m.
- · Auto Tracking 3.0.
- · Face Detection.
- SMD 4.0.
- · PoE+.
- IP67, IK10.











#### SMD 4.0

VIZIONTECH Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

#### **Starlight Technology**

For challenging low-light conditions, VIZIONTECH's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, VIZIONTECH smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Technical Specification	I					Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking		
Camera					IVS (Perimeter Protection)	detection; people gathering; vehicle/human alarm classification		
Image Sensor	1/2.8" CMOS					Supports face detection, face bounding box, capturing		
Pixel	2 MP					snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions		
Max. Resolution	1920 (H) × 1080 (V)							
ROM	4 GB				Face Detection			
RAM	1 GB					are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality		
Electronic Shutter Speed	1/1 s-1/30,000 s							
Scanning System	Progressive					first, and selecting a preferred image among a group of snapshots.		
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				People Counting	Supports tripwire for people counting at entrances and exits, counting the number of people staying in an area		
Illumination Distance	150 m (492.1	.3 ft) (IR)			. copie counting	and queuing in an area, and displaying and exporting reports based on the day, week and month.		
Illuminator On/Off Control	Zoom Prio; N	lanual; Smart	IR		Auto Tracking	Yes		
Illuminator Number	4 (IR)				SMD	SMD 4.0		
Lens						Uses deep learning algorithms and works with back-		
Focal Length	4.8 mm-120	mm			Acupick	end devices to accurately match targets, such as people and motor vehicles, and search through live		
Max. Aperture	F1.6-F3.5					and recorded videos to quickly locate targets.		
Field of View	H: 58.5°-2.8°	°; V: 33.2°–1.5	°; D: 67.5°–3.2°		Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the		
Optical Zoom	25×				Mids -	position of the target and patrol based on its presets.		
Focus Control	Auto; semi-auto; manual				Video	eo . Smart H.265+; H.265; Smart H.264+; H.264; H.264B;		
Close Focus Distance	0.1 m-1.5 m	(0.33 ft-4.92	ft)		Video Compression	H.264H; MJPEG (Sub Stream 1)		
Iris Control	Auto; manua	I			Streaming Capability	3 streams		
DORI Distance	Detect	Observe 646 m	Recognize	Identify	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
PTZ	(5,292 ft)	(2,119 ft)	(1,060 ft)	(528 ft)	Video Frame Rate	Main stream: 1080p/1.3M/720p@(1-50/60 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)		
Pan/Tilt Range	Pan: 0° to 360° endless				Bit Rate Control	CBR; VBR		
Manual Control Speed		Tilt: -15° to +90°, auto flip 180°  Pan: 0.1°/s-300°/s  Tilt: 0.18/s-3008/s			Video Bit Rate	H264: 64 Kbps–10946 Kbps H265: 25 Kbps–6400 Kbps		
Preset Speed	Pan: 400°/s; Tilt: 300°/s				Day/Night	Auto (ICR); Color; B/W		
Preset	300				BLC	Yes		
Tour		resets per tou	ır)		WDR	120 dB		
Pattern	5		,		White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp		
Scan	5				Gain Control	Auto; manual		
Power-off Memory	Yes				Noise Reduction	2D NR; 3D NR		
Idle Motion	Preset; Patte	rn; Tour; Scar	ı		Motion Detection	Yes		
Intelligence				Region of Interest (RoI)	Yes			
			otor vehicles, f		Image Stabilization	Electronic (EIS)		
Video Metadata	snapshots, up	ploads high-q	uality face ima cts attributes fi	ges and	Defog	Electronic		
		-	0 attributes fo		Digital Zoom	16×		
					Image Rotation	180°		

Privacy Masking	Vacy Masking Up to 24 areas can be set, with up to 8 areas in the same view.		Ordering Information				
S/N Ratio	≥55 dB	Туре	Model	Description			
Audio		2MP					
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	Network PTZ Camera	VTU-PSO0725-D	2MP 25x Starlight IR Network PTZ Camera			
Network				Wall Mount Brac	ket		
Network Port	RJ-45 (10/100 Base-T)			Power Adapter			
Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP;			Mount Adapter Power Box			
1.00	PPPOE; RTMP; TCP; SSL	Accessories		Ceiling Mount Br	acket		
Interoperability	ONVIF(Profile S&G&T);CGI;SDK			Ceiling Mount Br	acket		
Streaming Method	Unicast; Multicast			Junction Box			
User/Host	20 (total bandwidth: 64 M)			Pole Mount Brac	ket		
Storage	FTP; Micro SD card (512 GB); NAS			Corner Mount Br	acket		
Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	Accessories	5				
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS	Included:					
Mobile Client	iOS; Android	moradea.					
Port		0 0					
Alarm I/O	2/1			Alore			
Audio I/O	1/1			00241/254			
Two-way Audio	Yes	DC24V/2.5A Wall Mount Power Adapter Bracket					
Alarm Linkage	Capture; preset; tour; pattern; recording; triggering on-off value output; audio; sending email						
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection	Optional:		o.			
Power							
Power Supply	24 VDC, 2.5 A ± 25% PoE +(802.3at)	Mount Adapte	or.	Power Box	Ceiling Mount		
Power Consumption	Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan)	WodnerAdapa	-1	Tower Box	Bracket		
Environment							
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)		j				
Operating Humidity	≤95%				, E >		
Protection	IP67; IK10; TVS 6000 V lightning proof; surge protection; voltage transient protection						
Structure		Ceiling Mount Bracket	Į J	unction Box	Pole Mount Bracket		
Product Dimensions	332 mm × Φ190 mm (13.07" × Φ7.48")						
Net Weight	4.7 kg (10.36 lb)						
Gross Weight	8 kg (17.64 lb)	0					

Corner Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount		
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C		
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)		
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150		

### Dimensions (mm[inch])

