

8MP 7" Bullet-PTZ Two-in-One IP Camera — 20X Zoom

Model: EV-PTZ80DP-20X-2-PF

H.265/S265 8MP, 6 AI, 7-inch 20X bullet-and-PTZ two-in-one camera with linkage alarm tracking, dual light, built-in microphone & speaker, built-in PoE, and built-in TF card slot. One bullet camera (F1.0 4mm fixed lens) delivers a wide fixed overview while the high-speed PTZ dome zooms in for detailed, linked tracking — output as dual IP, dual image streams.



Key Features

- Resolution up to 3840×2160 @25fps (and 7 other selectable resolutions down to 1920×1080 @25fps)
- 7-inch professional engineering PTZ camera housing, protection class IP66
- Dual light: 4pcs laser light + 6pcs dual-core light; night vision distance up to 150 meters
- Professional high-speed motor: 360° unlimited rotation, continuous cruise, 240°/s rotation speed
- Auto-identifies PELCO-D, PELCO-P and other communication protocols
- Settings retained after power failure; built-in anti-surge and anti-lightning protection
- 255 freely-stored preset positions with accurate positioning
- Cruise line, automatic line scanning, and guard-position functions
- Built-in AI: line-crossing detection, vehicle retrograde, staff absence, loitering, area intrusion, vehicle illegal parking
- S265 efficient compression to save bandwidth and storage
- Smart IR to prevent infrared overexposure at night; ICR auto day/night switching
- 3D digital noise reduction
- Built-in microphone & speaker with two-way voice intercom; built-in TF card slot, P2P support
- Standard ONVIF access and NTP service support

Technical Specification

Category	Item	Specification
Basic Parameter	Model	EV-PTZ80DP-20X-2-PF
	Smart Function	6 AI function
	Main Chipset	T41NQ
	Image Sensor	1/2.7", 8MP progressive scan ultra-low illumination CMOS S83
	Effective Pixels	8MP
	Min. Illumination	Color: 0.1Lux@F1.2; B&W: 0Lux@F1.2 (IR on)
	Lens	20X
	Focal Length	5.6–99mm
	Aperture Value	F1.6–F2.7
	Horizontal View Angle	55.4° (Wide) / 2.9° (Tele)
	Near Focus	100mm ~ 1000mm (N ~ T)
	Zoom Speed	5s (Optical, Wide angle–Telescope)
	IR Distance	150M (10 lamps)
	Noise Reduction	3D noise reduction
	WDR	DWDR (Off / Low / Medium / High)
	Mirror	Off / Horizontal mirroring / Vertical mirroring / 180° rotation
	Image Setting	Brightness / Contrast / Sharpness / Saturation / Chroma
PTZ Parameter	Manual Rotation Speed	Horizontal: 0.05 ~ 240°/s; Vertical: 0.05 ~ 200°/s
	Horizontal Rotation Range	Horizontal 0 ~ 360° continuous rotation
	Vertical Rotation Range	Vertical 0 ~ 90°
	Control Method	RS485 / TTL optional

Category	Item	Specification
	Automatic Cruise	2 cruises; preset points duration time and cruise speed adjustable
	Auto Line Scan	4 levels adjustable
	Two Points Scan	Set between A and B preset; 4-level scanning speed optional
	Proportional Deceleration	Supports intelligent focus / speed automatic matching technology
	Preset	256
	Idle Action	Supports 4 kinds of idle actions; idle time can be set
	Anti-lightning	Power connection port 3KV
	Power-off Protection	Automatically runs memory function; resumes pre-failure action after power failure
6 AI Function	Line-crossing Detection	Alarm triggers when someone crosses the drawn warning line
	Vehicle Retrograde	Alarm triggers when a vehicle travels in the opposite direction
	Staff Absence	Alarm triggers when someone leaves the area longer than the set time
	Loitering	Alarm triggers when someone stays in the area longer than the set time
	Area Intrusion	Alarm triggers when someone enters the set area
	Vehicle Illegal Parking	Alarm triggers when a vehicle parks longer than the set time in a no-parking area
Video and Audio Coding	Encoding Format	S265 / H.265 / H.264
	Coding Characteristics	Main stream: 3840×2160, 3072×2048, 3072×1728, 2592×1944, 2880×1620, 2560×1440, 2304×1296, 1920×1080 (all @25fps) Sub stream: D1 (720×576), VGA (640×480), Q720P (640×360)
	Video Bit Rate	Fixed bit rate, variable bit rate (1538kbps–8Mbps)
	Video Type	Composite stream / Video stream
	Audio Coding Standard	G.711U / 64Kbps
Network Function	Network Interface	1 × RJ45 10M/100M self-adaptive LAN port
	Network Protocol	TCP/IP, UDP, HTTP, DHCP, RTSP, NTP
	Interface Protocol	ONVIF
Port	Network Interface	RJ45 10M/100M network adaptive
	PoE	Built-in PoE
	Audio	Built-in Microphone & Speaker
	TF Card Slot	Up to 512GB, Micro SD (EXT3/EXT4) local storage
General	Operation T/H	–20°C ~ 60°C / 0%–90%
	Waterproof	IP66
	Power Supply	DC 12V / PoE
	Power Consumption	< 10W (MAX)
	Dimension (mm)	Equipment: 185 × 185 × 306mm
	Weight/PCS (g)	N.W.: 3000g Packing: 3900g
	Outside Carton	4pcs/carton; 490mm × 490mm × 460mm; Weight: 16kgs