



PRO-PTZ-Z40

7-inch 5MP Starlight IR 40x Network PTZ Camera

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Key Features

- 1/2.8" progressive scan CMOS
- Max. 25/30 fps@2592 × 1944
- 40x optical zoom and 16x digital zoom
- Supports detection and capture of faces, humans, and vehicles, along with smoke and flame detection.
- Supports intelligent analysis for intrusion, single / double line crossing, loitering, wrong-way detection, illegal parking, smart motion detection, and people counting
- Auto tracking and perimeter protection based on deep learning
- True WDR, 3D DNR, ICR, Defog and EIS
- Gyroscope stabilization for stable picture
- Smart IR distance up to 300 m
- IP66

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Redesigned technical summary in Hikvision-style table layout. All original pages are appended after this branded section to preserve the exact original model numbers, specifications, diagrams, and descriptions.

Technical Specifications

Category	Parameter	Value
General	1/2.8" progressive scan CMOS	Max. 25/30 fps@2592 × 1944
	40x optical zoom and 16x digital zoom	Supports detection and capture of faces, humans, and vehicles, along with smoke and
	flame detection.	Supports intelligent analysis for intrusion, single / double line crossing, loitering,
	wrong-way	detection, illegal parking, smart motion detection, and people counting
	Auto	tracking and perimeter protection based on deep learning
	True	WDR, 3D DNR, ICR, Defog and EIS
	Gyroscope	stabilization for stable picture
	Smart	IR distance up to 300 m
	IP66	PRO-PTZ-Z40 7-inch 5MP Starlight IR 40x Network PTZ Camera
	Camera	Image Sensor
Max. Resolution		2592(H) × 1944 (V)
Electronic Shutter		Auto/Manual, 1/5 to 1/20,000s
Min. illumination		Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Day & Night		Auto (ICR)
Wide Dynamic Range		True WDR
Lens	Focal Length	5.0 to 200 mm
	Max. Aperture	F1.68 to F5

Category	Parameter	Value
	Field of View (FOV)	H: 64.8° to 1.8°, V: 50.3° to 1.3°
	Optical Zoom	40x
	Digital Zoom	16x
Iris Control Auto/Manual	Focus Control	Auto/Manual/Semi-automatic
DORI Distance	Detection	82 to 3,280 m (269.03 to 10,761.15 ft)
	Observe	32.8 to 1,312 m (107.61 to 4,304.46 ft)
	Recognize	16.4 to 656 m (53.81 to 2,152.23 ft)
	Identify	8.2 to 328 m (26.9 to 1,076.12 ft)
Illuminator Type IR	Illumination Distance	IR distance up to 300 m (984.3 ft)
	Illumination On/Off Control	Auto/Manual
Intelligent Analytics	Multi-Object Detection	Support face, human, vehicle detection and capture
	Smoke and Flame Detection	Support Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection
Intelligent Analysis	and	Smart motion detection (support the accurate detection of vehicle and human)
PTZ	Pan/Tilt	Range Pan: 0° to 360° endless, Tilt: -10° to +90° (auto-flip)
	Pan	Speed Pan speed: 0.1° to 300°/s, preset speed: 300°/s
	Tilt	Speed Tilt speed: 0.1° to 300°/s, preset speed: 300°/s
	Presets	400
	Patrol	Scan 6 Track, 12 Scan, 12 Patrol (up to 32 presets each patrol) 3D Positioning Support
PTZ Status Display Support	Idle	Motion The time can be set (1-240 minutes), and functions such as preset positions, patrol
	can	be run.
Video and Audio	Streaming Capability	3 Streams
Stream/Frame Rate	Stream1: 2592x1944, 2592x1520, 1920x1080, 1280x720 @ 25/30fps	Stream2: 1280x720 @ 25/30fps Stream3: VGA, CIF, QVGA @ 25/30fps
Bit Rate	Stream1: 200 kbps to 16 Mbps	Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Smart Encoder Support	Region of Interest	(ROI) Support
	Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM

See appended original pages for the remaining specification detail, dimensional drawings, accessories, and diagrams.

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Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	2592(H) × 1944 (V)
Electronic Shutter	Auto/Manual, 1/5 to 1/20,000s
Min. illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Day & Night	Auto (ICR)
Wide Dynamic Range	True WDR
Wiper	Support
Lens	
Focal Length	5.0 to 200 mm
Max. Aperture	F1.68 to F5
Field of View (FOV)	H: 64.8° to 1.8°, V: 50.3° to 1.3°
Optical Zoom	40x
Digital Zoom	16x
Iris Control	Auto/Manual
Focus Control	Auto/Manual/Semi-automatic
DORI Distance	
Detection	82 to 3,280 m (269.03 to 10,761.15 ft)
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Illuminator	
Illuminator Type	IR
Illumination Distance	IR distance up to 300 m (984.3 ft)
Illumination On/Off Control	Auto/Manual
Intelligent Analytics	
Multi-Object Detection	Support face, human, vehicle detection and capture
Smoke and Flame Detection	Support
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Illegal parking, and Smart motion detection (support the accurate detection of vehicle and human)

People Counting	Support
Smart Tracking	Support
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to +90° (auto-flip)
Pan Speed	Pan speed: 0.1° to 300°/s, preset speed: 300°/s
Tilt Speed	Tilt speed: 0.1° to 300°/s, preset speed: 300°/s
Presets	400
Patrol Scan	6 Track, 12 Scan, 12 Patrol (up to 32 presets each patrol)
Power-Off Memory	Support
3D Positioning	Support
PTZ Status Display	Support
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.
Video and Audio	
Streaming Capability	3 Streams
Stream/Frame Rate	Stream1: 2592×1944, 2592×1520, 1920×1080, 1280×720 @25/30fps Stream2: D1, VGA, CIF @25/30fps Stream3: VGA, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 kbps to 16 Mbps Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Smart Encoder	Support
Region of Interest (ROI)	Support
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 kbps (G.711), 128 kbps (RAW_PCM)
Image	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Mirror	Support
Exposure Mode	Auto/Manual
White Balance	Auto/Manual
Day/Night Setting	Auto, Day, Night, Time
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR, Anti-shake
Privacy Masking	Support 40 zones, mask color configurable
Event	

Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Abnormal sound detection
Alarm Events	Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
User/Host Level	Up to 10 users, 3 levels: Administrator, Operator, Media user
Security	IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Input, 1ch Output
Alarm Interface	7ch Input, 2ch Output
RS-485	Support
BNC Interface	1 BNC (CVBS output)
SD Card Slot	Built-in, up to 1 TB
General	
Language	English, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
Power Supply	24VAC/36VDC/PoE++ (802.3bt), Standard Equipped: 36VDC
Power Consumption	Less than 45 W
Operating Temperature	-40°C to 60°C (-40°F to 140 °F)
Operating Humidity	Less than 90% RH
Ingress Protection	IP66
Certifications	CE-EMC (EN 55032:2015+A1:2020, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A12021, EN 61000-3-3:2013+A2:2021, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014) CE-LVD (EN 62368-1:2014+A11:2017) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)
Material	Metal
Dimensions	φ226.1 × 362.8 mm (φ8.9×14.28 inch)
Net Weight	5.5 kg (12.13 lb)

Dimensions (mm)

