

# KX-F16440MSPN

## 8 × 2MP Multi-Sensor Panoramic + PTZ IP Camera

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- Panoramic camera: Eight 1/1.8" 2 Megapixel progressive scan CMOS
- PTZ camera: One 1/1.8" 4 Megapixel progressive scan CMOS
- Support 360-degree panoramic view
- Starlight technology
- Support Smart H265+/H264+ encoding
- Day/Night (ICR); 3D NR; AWB; AGC; BLC
- IR distance up to 400 m
- Smart tracking
- Tripwire
- Intrusion
- Crowd map



Camera	
Image Sensor	Panoramic camera: 1/1.8" 2 Megapixel progressive CMOS PTZ camera: 1/1.8" 4 Megapixel progressive CMOS
Max. Resolution	Panoramic camera: 8192 (H) × 1800 (V) PTZ camera: 2560 (H) × 1440 (V)
ROM	Panoramic camera: 4 GB PTZ camera: 32 GB
RAM	Panoramic camera: 8 GB PTZ camera: 4 GB
Scanning System	Progressive
Electronic Shutter Speed	Panoramic camera: Auto/Manual 1/3 s–1/100,000 s PTZ camera: Auto/Manual 1/1 s–1/300,000 s
Min. Illumination	Panoramic network camera: 0.001 Lux (Color); 0.0002 Lux (B/W) PTZ camera: 0.001 Lux (Color); 0.0001 Lux (B/W); 0 Lux (IR on)
S/N Ratio	Panoramic camera: 56 dB PTZ camera: 53.6 dB
Illumination Distance	PTZ camera: ≥ 400 m (1312.3 ft) (IR LED)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	PTZ camera: 7 (IR LED)
Lens	
Lens Type	Panoramic camera: Fixed-focal PTZ camera: Motorized vari-focal
Mount Type	Panoramic camera: M12 PTZ camera: Module
Focal Length	Panoramic camera: 5 mm PTZ camera: 5.6 mm–223 mm, 40x optical zoom
Max. Aperture	Panoramic camera: F2.0 PTZ camera: F1.3

Field of View	Panoramic camera: Horizontal: 360° Vertical: 84° PTZ camera: Horizontal: 2.27°–61.40° Vertical: 1.30°–35.99° Diagonal: 2.62°–68.18°				
Iris Type	Panoramic camera: Fixed PTZ camera: Auto				
Close Focus Distance	Panoramic camera: 1.2 m (3.9 ft) PTZ camera: 0.5 m (1.6 ft)				
DORI distance		Detect	Observe	Recognize	Identify
	Panoramic camera	53.3 m (174.9 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)	5.3 m (17.4 ft)
	PTZ camera	2873.1 m (9426.2 ft)	1149.2 m (3770.3 ft)	574.6 m (1885.2 ft)	287.3 m (942.6 ft)
Smart event					
IVS	Intrusion, tripwire				
Professional, Intelligent					
Crowd Distribution Map	Crowd distribution map; global people counting; people counting in area; crowd density abnormality snapshot				
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				
Video					
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)				
Smart Codec	Smart H.265+ / Smart H.264+				
Video Frame Rate	Panoramic camera: Main stream: 8192 × 1800 @1–25/30 fps; sub stream 1: 3840 × 832 @1–25/30 fps; sub stream 2: 4800 × 3840 @1–25/30 fps PTZ camera: Main stream: 2560 × 1440 @1–25/30 fps; sub stream 1: 704 × 480 @1–25/30 fps; sub stream 2: 1920 × 1080 @1–25/30 fps				

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Stream Capability	3 streams
Resolution	Panoramic camera: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4800 × 3840; 4096 × 900; 3840 × 832; 3200 × 2560; 2560 × 560; 2048 × 452; 1600 × 1280 PTZ camera: 2560 × 1440; 2048 × 1536; 1920 × 1080; 1280 × 960; 1280 × 720; 704 × 576; 704 × 480; 352 × 288; 352 × 240
Bit Rate Control	Panoramic camera: CBR/VBR PTZ camera: CBR/VBR
Video Bit Rate	Panoramic camera: H.264: 512 kbps–42995 kbps H.265: 256 kbps–26216 kbps PTZ camera: H.264: 184 kbps–15104 kbps H.265: 110 kbps–9216 Kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	Panoramic camera: True WDR:120 dB PTZ camera: WDR (120 dB )
Scene Self-adaptation (SSA)	Yes
White Balance	Panoramic camera: Auto/Natural/Street lamp/Outdoor/Manual/Regional custom PTZ camera: Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural/Street lamp
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas)
Region of Interest (RoI)	Panoramic camera: Yes (4 areas) PTZ camera: Yes (4 areas)
Electronic Image Stabilization (EIS)	PTZ camera: Yes
Smart Illumination	PTZ camera: Yes
Defog	PTZ camera: Yes
Privacy Masking	Panoramic camera: 4 areas PTZ camera: 8 areas
<b>Audio</b>	
Audio Compression	G.711A; G.711Mu; G.726
Alarm	Alarm Event No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection and external alarm.
<b>Network</b>	
SDK and API	Yes
Network	RJ-45 (10/100/1000 Base-T)

Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Interoperability	ONVIF (Profile G/T/S); CGI
User/Host	20 (Total bandwidth: 800 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS
Browser	IE: IE7 and earlier Chrome: 42 and earlier Firefox: 52 and earlier Safari: 11 and earlier
Management Software	EVS; NVR; M70; KBiVMS; Milestone; Genetec
Mobile Phone	IOS; Android
<b>PTZ Dome</b>	
Pan Range	Pan: 0° to 360° endless Tilt: -12° to 90°, auto flip 180
Manual Control Speed	Pan: 0.1°/s–240°/s Tilt: 0.1°/s–100°/s
Remote Lens Reset	Yes
Remote PTZ Reset	Yes
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5 patterns
Scan	5 auto scans
Power-off Memory	Yes
Idle Motion	Preset/Pattern/Tour/Scan
Time Task	Yes
3D Positioning	Yes
PTZ Limit	Yes
Position Display	Yes
Information Display	Yes
Time Display	Yes
<b>Port</b>	
Audio Input	2 channels (terminal)
Audio Output	2 channels (terminal)
Alarm Input	7 channels in: 5mA 3V–5V DC
Alarm Output	3 channels out: 300mA 12V DC
<b>Power</b>	
Power Supply	36V DC
Power Consumption	Basic power consumption: 58.7WW Max. power consumption (WDR + H.265 + IR LED intensity): 84.4W

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Environment	
Operating Conditions	-40°C to +70°C (-40°F to 158°F)
Operating Humidity	≤95%
Storage Conditions	5°C -40°C (41°F-104°F) (The temperature difference of each day is within 15°C /59°F.)
Protection Grade	IP66
Structure	
Casing	Metal + plastic
Dimensions	Φ383 mm × 389.8 mm (Φ15.1" × 15.3")
Net Weight	14.70 kg (32.4lb)
Gross Weight	19.80 kg (43.7lb)
Dimensions (mm[inch])	

