

## IK-2146TH-MM/P Network PoE Kit

### Key Feature

- One pack contains everything required for small monitoring scenarios
- One 4-channel PoE NVR with decoding up to 1-ch@8MP
- 2\* 6MP fixed turret network cameras with efficient H.265+ compression technology
- Easy installation with Power over Ethernet (PoE) technology
- HiLookVision for easy network management
- 1 TB pre-installed HDD



## Specification

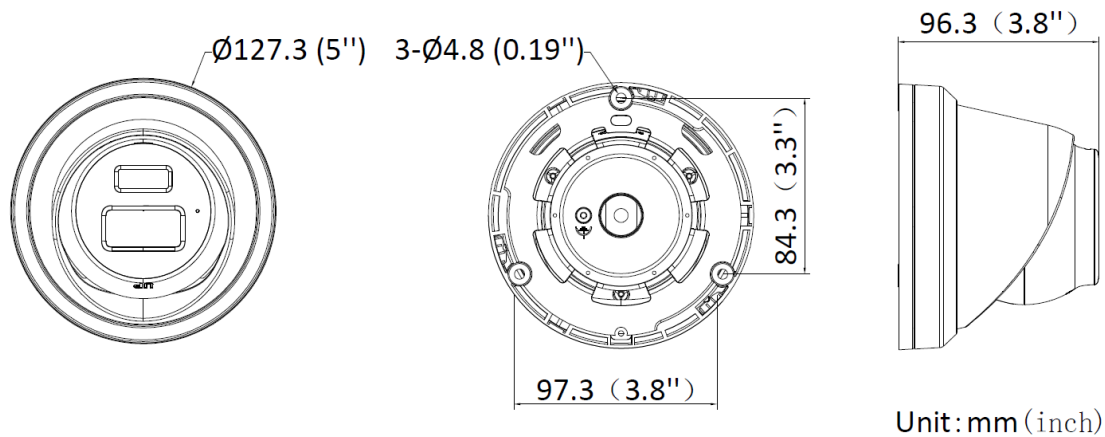
<b>KIT Model</b>	<b>IK-2146TH-MM/P</b>
Camera Model	<b>IPC-T361H-MU(2.8mm)</b>
NVR Model	<b>NVR-104MH-C/4P</b>
<b>Camera</b>	
Image Sensor	1/2.4" Progressive Scan CMOS
Max. Resolution	3200 × 1800
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°
<b>Lens</b>	
Lens Type	Fixed focal lens, 2.8 mm
Focal Length & FOV	2.8 mm, horizontal FOV 105°, vertical FOV 55°, diagonal FOV 127° 4 mm, horizontal FOV 78°, vertical FOV 38°, diagonal FOV 96°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
<b>DORI</b>	
DORI	2.8 mm, D: 76 m, O: 30 m, R: 15 m, I: 7 m 4 mm, D: 115 m, O: 45 m, R: 23 m, I: 11 m
<b>Illuminator</b>	
Supplement Light Type	IR
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
<b>Video</b>	
Main Stream	50 Hz: 20fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 20 fps(1280 × 720, 640 × 480, 640 × 360) 60 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR, VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream
<b>Audio</b>	
Audio Type	Mono sound
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC

Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)
<b>Network</b>	
Security	Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address)
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile T, Profile G), ISAPI, SDK
Protocols	TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, IPv6, UDP, QoS, FTP, SMTP, UPnP
User/Host	Up to 32 users, 3 user levels: administrator, operator, and user
Client	iVMS-4200, HiLookVision
Web Browser	Plug-in required live view: IE 10, IE 11, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
<b>Image</b>	
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Privacy Mask	4 programmable polygon privacy masks
<b>Interface</b>	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Built-in Microphone	Yes
Reset Key	Yes
<b>Event</b>	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Smart Event	Line crossing detection and intrusion detection (support alarm triggering by specified target types (human and vehicle))
Linkage	Upload to FTP, send email, notify surveillance center, trigger capture
<b>General</b>	
Power	12 VDC ± 25%, 0.41 A, max. 5 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 6.5 W
Material	Metal
Dimension	Ø127.3 mm × 95.9 mm (Ø5.0" × 3.8")
Package Dimension	150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")
Weight	Approx. 600 g (1.3 lb.)
With Package Weight	Approx. 909 g (2.0 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)

Language	English, Ukrainian
General Function	Heartbeat, anti-banding, mirror, password protection, password reset via email
<b>Approval</b>	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7
Safety	CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013
<b>NVR</b>	
<b>Video and Audio</b>	
IP video input	4-ch Up to 8 MP resolution
Incoming bandwidth	40 Mbps
Outgoing bandwidth	80 Mbps
HDMI output	1-ch, 4K (4096 x 2160)/30 Hz, 4K (3840 x 2160)/30 Hz, 2K (2560 x 1440)/60 Hz, 1920 x 1080/60 Hz, 1600 x 1200/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz
VGA output	1-ch, 1920 x 1080/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz
Video output mode	HDMI/VGA simultaneous output
CVBS output	N/A
Audio output	1-ch, RCA (Linear, 1 K $\Omega$ )
Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 K $\Omega$ , using the audio input)
<b>Decoding</b>	
Decoding format	H.265+/H.265/H.264+/H.264
Recording resolution	8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	4-ch
Capability	1-ch@8 MP (30 fps)/5-ch@1080p (30 fps)
Stream type	Video, Video & Audio
Audio compression	G.711ulaw/G.711alaw/G.722/G.726
<b>Network</b>	
Remote connection	16
Network protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network interface	1, RJ-45 10/100 Mbps self-adaptive Ethernet interface
<b>PoE</b>	
Interface	4, RJ-45 10/100 Mbps self-adaptive Ethernet interface
Power	≤ 50 W
Supported standard	IEEE 802.3 af/at
<b>Auxiliary Interface</b>	
SATA	1 SATA interface
Capacity	Up to 8 TB capacity for each disk
USB interface	Rear panel: 2 x USB 2.0
<b>General</b>	
Power supply	48 VDC, 1.35 A

Consumption(without HDD and PoE off)	≤ 10 W
Working temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working humidity	10% to 90%
Dimension (W × D × H)	265 × 225 × 48 mm (10.2" × 8.9" × 1.9")
Weight (without HDD)	≤ 1 kg (2.2 lb)
<b>Certification</b>	
FCC	Part 15 Subpart B, ANSI C63.4-2014
CE	EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017

## Camera Dimension



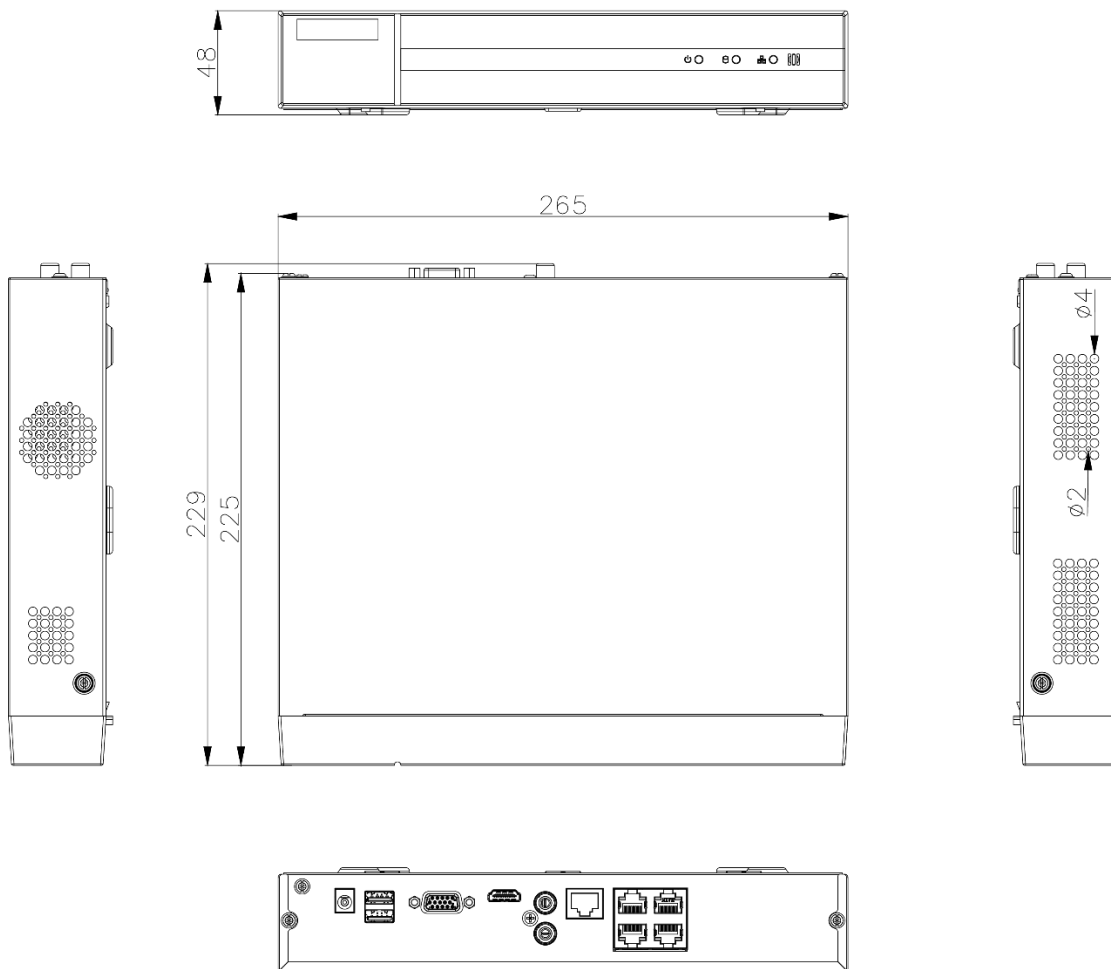
## Accessory

### Optional

<b>DS-1271ZJ-130-TRL</b> Pendant Mount	<b>DS-1276ZJ-SUS</b> (Black) Corner Mount	<b>DS-1281ZJ-M</b> (Black) Inclined Ceiling Mount	<b>DS-1275ZJ-SUS</b> Vertical Pole Mount	<b>DS-1271ZJ-130-TRL</b> (Black) Pendant Mount
<b>DS-1280ZJ-DM8</b> (Black) Junction Box	<b>DS-1281ZJ-M</b> Inclined ceiling mount	<b>DS-1273ZJ-130B-TRL</b> Wall mount	<b>DS-1276ZJ-SUS</b> Corner mount	<b>DS-1275ZJ-SUS</b> (Black) Vertical Pole Mount

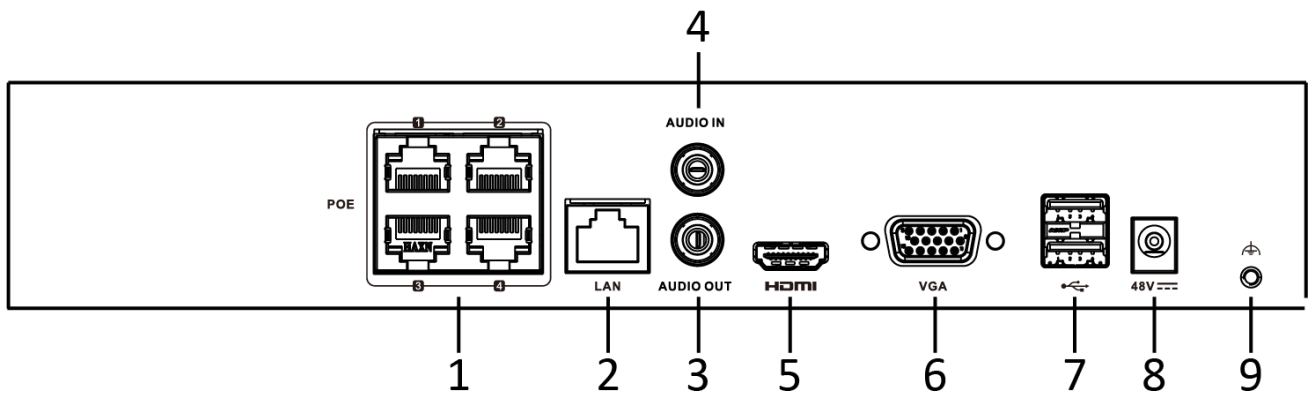
DS-1273ZJ-130-TRL(Black) Wall Mount	DS-1280ZJ-DM8 Junction box	DS-1273ZJ-130-TRL Wall mount
		

## NVR Dimension



scale/1:1;Unit/mm

## Physical Interface



No.	Description	No.	Description
1	PoE Interfaces	6	VGA Output (DB9 Connector)
2	LAN Interface	7	USB Interfaces
3	AUDIO OUT	8	Power Supply
4	AUDIO IN	9	GND
5	HDMI Interface		

## Available Model

IK-2146TH-MM/P