

## IK-4248TH-MH/P PoE Kit

### Key Feature

- One pack contains everything required for small monitoring scenarios
- One 4-channel PoE NVR with decoding up to 4-ch@1080p
- Four 4K fixed turret network cameras with efficient H.265 compression technology
- 5 network cables
- 2 TB pre-installed HDD



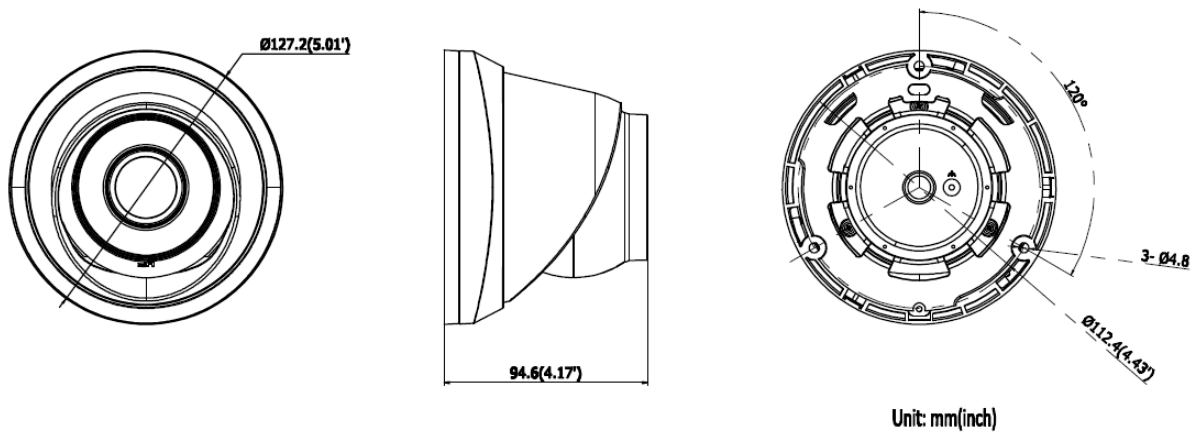
## Specification

|                          |                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kit Model                | IK-4248TH-MH/P                                                                                                                                                                                                                                                                                                                   |
| Camera Model             | IPC-T280H (2.8mm)                                                                                                                                                                                                                                                                                                                |
| NVR Model                | NVR-104MH-C/4P                                                                                                                                                                                                                                                                                                                   |
| <b>Camera</b>            |                                                                                                                                                                                                                                                                                                                                  |
| Image Sensor             | 1/2.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                                                     |
| Max. Resolution          | 3840 × 2160                                                                                                                                                                                                                                                                                                                      |
| Min. Illumination        | Color: 0.01 Lux @(F2.0, 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 and 4 mm optional                                                                                                                                                                                                                                                                                          |
| Focal Length & FOV       | 2.8 mm, horizontal FOV 108°, vertical FOV 60°, diagonal FOV 127°                                                                                                                                                                                                                                                                 |
| Lens Mount               | M12                                                                                                                                                                                                                                                                                                                              |
| Iris Type                | Fixed                                                                                                                                                                                                                                                                                                                            |
| Aperture                 | F2.0                                                                                                                                                                                                                                                                                                                             |
| <b>DORI</b>              |                                                                                                                                                                                                                                                                                                                                  |
| DORI                     | D: 81 m, O: 32 m, R: 16 m, I: 8 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: 12.5 fps (3840 × 2160), 20 fps (2592 × 1944), 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 15 fps (3840 × 2160), 20 fps (2592 × 1944), 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                                                                                                           |
| Sub-Stream               | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                                                                                                                                                             |
| Video Compression        | Main stream: H.265+/H.265/H.264+/H.264<br>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                                                                                                                                                                                                                                                                                                                          |
| Region of Interest (ROI) | 1 fixed region for main stream                                                                                                                                                                                                                                                                                                   |
| <b>Network</b>           |                                                                                                                                                                                                                                                                                                                                  |
| Security                 | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, security audit log, TLS 1.2, host authentication (MAC address) |
| Simultaneous Live View   | Up to 6 channels                                                                                                                                                                                                                                                                                                                 |

|                                         |                                                                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>API</b>                              | Open Network Video Interface (Profile S), ISAPI, SDK                                                                                                                      |
| <b>Protocols</b>                        | TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, HTTPS, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour, FTP, 802.1x, SMTP                                                        |
| <b>User/Host</b>                        | Up to 32 users<br>3 levels: Administrator, Operator and User                                                                                                              |
| <b>Client</b>                           | iVMS-4200, HiLookVision                                                                                                                                                   |
| <b>Web Browser</b>                      | Plug-in required live view: IE 10, IE 11<br>Local service: Chrome 57.0+, Firefox 52.0+                                                                                    |
| <b>Image</b>                            |                                                                                                                                                                           |
| <b>Wide Dynamic Range (WDR)</b>         | 120 dB                                                                                                                                                                    |
| <b>SNR</b>                              | ≥ 52 dB                                                                                                                                                                   |
| <b>Day/Night Switch</b>                 | Day, Night, Auto, Schedule                                                                                                                                                |
| <b>Image Enhancement</b>                | BLC, HLC, 3D DNR                                                                                                                                                          |
| <b>Image Settings</b>                   | Mirror, rotate, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser                                             |
| <b>Privacy Mask</b>                     | 4 regions of privacy mask                                                                                                                                                 |
| <b>Interface</b>                        |                                                                                                                                                                           |
| <b>Ethernet Interface</b>               | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                             |
| <b>Event</b>                            |                                                                                                                                                                           |
| <b>Basic Event</b>                      | Motion detection, video tampering alarm, exception                                                                                                                        |
| <b>Linkage</b>                          | Notify surveillance center, trigger capture                                                                                                                               |
| <b>General</b>                          |                                                                                                                                                                           |
| <b>Power</b>                            | 12 VDC ± 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug<br>PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W                                             |
| <b>Material</b>                         | Metal & Plastic                                                                                                                                                           |
| <b>Dimension</b>                        | Ø110 mm × 95.2 mm (Ø4.3" × 3.8")                                                                                                                                          |
| <b>Package Dimension</b>                | 150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")                                                                                                                             |
| <b>Weight</b>                           | Approx. 320 g (0.7 lb.)                                                                                                                                                   |
| <b>With Package Weight</b>              | Approx. 530 g (1.2 lb.)                                                                                                                                                   |
| <b>Storage Conditions</b>               | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                 |
| <b>Startup and Operating Conditions</b> | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                 |
| <b>Language</b>                         | English, Ukrainian                                                                                                                                                        |
| <b>General Function</b>                 | Anti-flicker, heartbeat, password protection, password reset via email                                                                                                    |
| <b>Approval</b>                         |                                                                                                                                                                           |
| <b>EMC</b>                              | FCC SDoC (47 CFR Part 15, Subpart B);<br>CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011+A1: 2014);<br>RCM (AS/NZS CISPR 32: 2015) |
| <b>Safety</b>                           | CB (IEC 62368-1:2014+A11);<br>CE-LVD (EN 62368-1:2014/A11:2017)                                                                                                           |
| <b>Environment</b>                      | CE-RoHS (2011/65/EU);<br>WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006)                                                                                       |
| <b>Protection</b>                       | IP67 (IEC 60529-2013)                                                                                                                                                     |

| NVR                                   |                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video and Audio                       |                                                                                                                                                         |
| IP Video Input                        | 4-ch                                                                                                                                                    |
|                                       | Up to 8 MP resolution                                                                                                                                   |
| Incoming/Outgoing Bandwidth           | 40 Mbps/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                                                                                            |
| Decoding                              |                                                                                                                                                         |
| Decoding Format                       | H.265+/H.265/H.264+/H.264                                                                                                                               |
| Video 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                            | 2-ch@8 MP (15 fps)/5-ch@1080p (30 fps)                                                                                                                  |
| Network                               |                                                                                                                                                         |
| 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                                                                                                   |
| PoE                                   |                                                                                                                                                         |
| Interface                             | 4, RJ-45 10/100 Mbps self-adaptive Ethernet interface                                                                                                   |
| Power                                 | ≤ 50 W                                                                                                                                                  |
| Standard                              | IEEE 802.3 af/at                                                                                                                                        |
| Auxiliary interface                   |                                                                                                                                                         |
| SATA                                  | 1 SATA interface                                                                                                                                        |
| Capacity                              | Up to 8 TB capacity for each disk                                                                                                                       |
| USB Interface                         | Rear panel: 2 × USB 2.0                                                                                                                                 |
| General                               |                                                                                                                                                         |
| 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 hard disk)            | ≤ 1 kg (2.2 lb)                                                                                                                                         |
| Kit                                   |                                                                                                                                                         |
| Accessories                           | Network cable:<br>4 × 18 m (59.1 ft) video and power cable<br>1 × 1 m (3.3 ft) video and power cable                                                    |
| Hard Drive                            | Pre-installed 2 TB HDD                                                                                                                                  |
| Certification                         | FCC, CE                                                                                                                                                 |
| Weight (with package)                 | ≤ 6.5 kg (14.3 lb)                                                                                                                                      |

## Camera Dimension

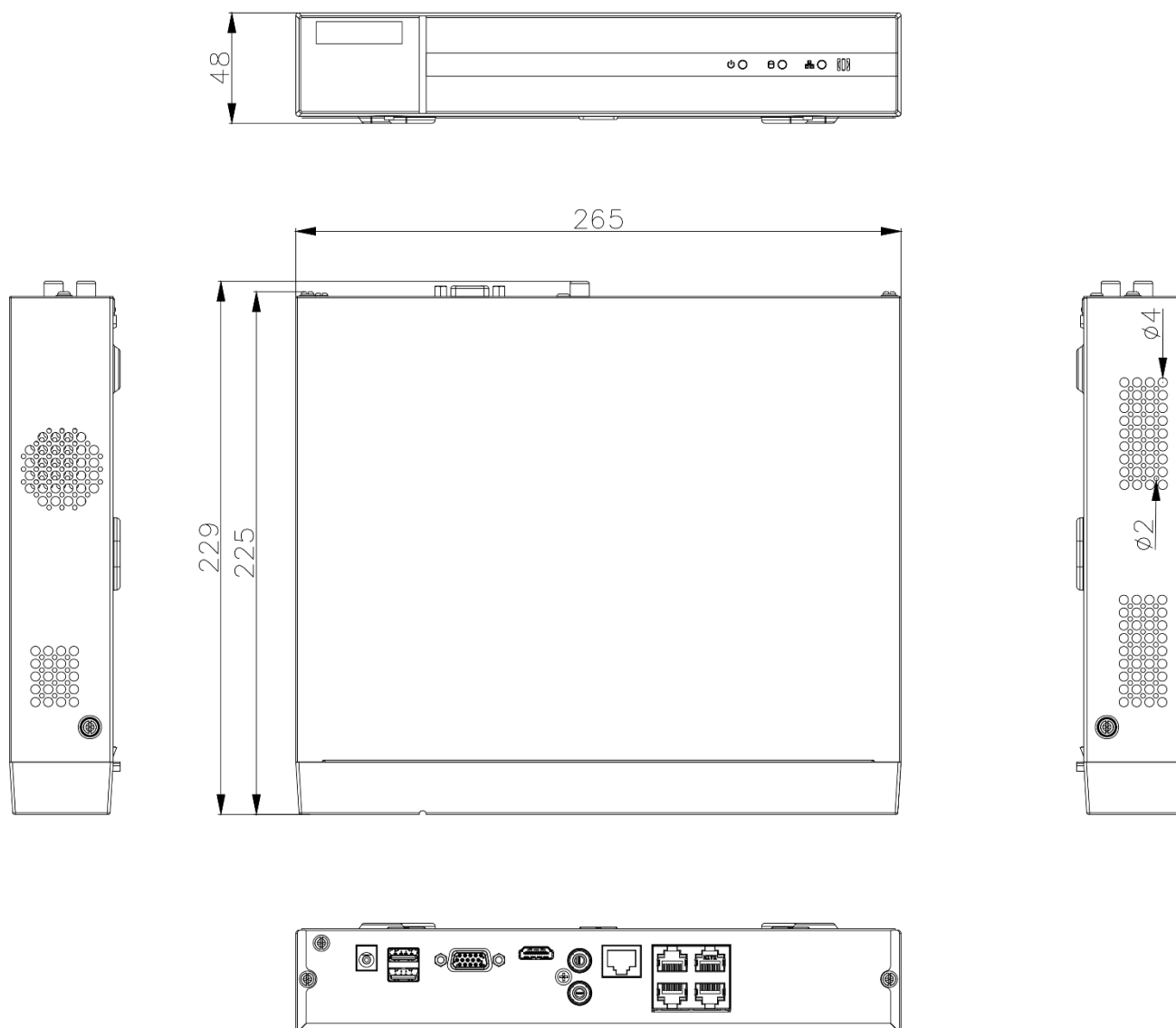


## Accessory

### Optional

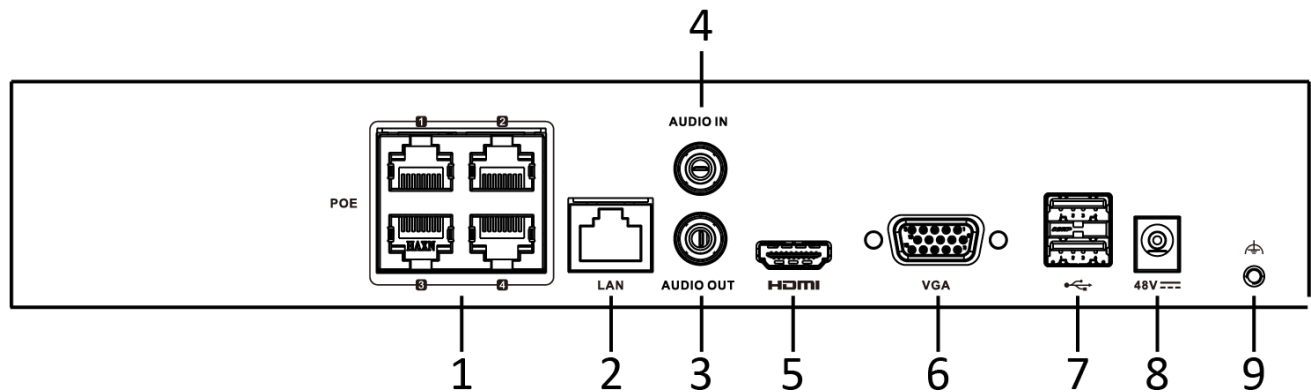
| PC110T+WML                                                                          | CBS                                                                                 | PM                                                                                  | CM                                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Wall Mount                                                                          | Junction Box                                                                        | Vertical Pole Mount                                                                 | Corner 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-4248TH-MH/P