

# 8MP 12 CHANNEL IP KIT



The KIT12OVIP8MP-AI-B is a complete AI-powered surveillance solution designed for reliable protection in residential and small commercial environments. It includes 12× TEBFDAIP8MP28-AI-L-B IP Eyeball Cameras and 1× GSD-NVROV6K-16-N Network Video Recorder, delivering crisp 8MP video with intelligent AI analytics.

Each camera features a 2.8 mm wide-angle lens, 20 m infrared night vision, built-in microphone, and IP67 weather protection for dependable indoor and outdoor performance.

The included AI NVR supports 4K HDMI output, up to 40TB of storage, P2P mobile access, ONVIF Profile S/G/T compatibility, and advanced AI functions including human & vehicle detection, license plate detection, facial recognition, line crossing, and perimeter intrusion detection, providing proactive monitoring and simplified security management.

**8MP**  
RESOLUTION

8MP  
Resolution



2.8MM  
Lens

**8MP**  
RESOLUTION

Up to 8MP  
Resolution

**ONVIF**

ONVIF Compliant  
(S/G/T)

**4K**

4K HDMI  
Output



16 PoE  
Ports



IR Up to  
20M



Built-in  
Microphone



2HDD slot up to  
40TB



1080P VGA  
Output



P2P Mobile  
Connection



ONVIF  
Encoder

**VIDEO**

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| <b>Imaging Device</b>        | 1/2.7" Progressive CMOS                            |
| <b>Effective Pixels</b>      | 8MP 3840×2160                                      |
| <b>Min. Illumination</b>     | Color 0.009 lux @ F1.6 (AGC on); B/W 0 lux (IR on) |
| <b>Resolution</b>            | 8MP 3840×2160                                      |
| <b>Frame Rate</b>            | 8mp: 20                                            |
| <b>Focal Length</b>          | 2.8 mm                                             |
| <b>Max Aperture Ratio</b>    | F1.6                                               |
| <b>Angular Field of View</b> | H 110° / V 58° / D 132°                            |
| <b>Min. Object Distance</b>  | 1.8 m                                              |
| <b>Lens Type</b>             | Fixed (M12)                                        |

**NETWORK**

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| <b>Compression</b>      | H.265/H.264                                                                                      |
| <b>Bitrate Control</b>  | CBR/VBR                                                                                          |
| <b>Bitrate Range</b>    | 256 Kbps – 16 Mbps                                                                               |
| <b>Main Stream</b>      | 8MP(3840x2160), 5MP(2592x1944), 4MP(2592x1520), 3MP(2304x1296), 1080P(1920x1080), 720P(1280x720) |
| <b>Sub Stream</b>       | 720P(1280x720)                                                                                   |
| <b>Protocols</b>        | TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, SMTP, NTP, UPnP, SNMP, HTTPS, FTP                       |
| <b>Ethernet</b>         | 1× RJ45 (10/100BASE-T)                                                                           |
| <b>ONVIF</b>            | Profile S/G/T/M                                                                                  |
| <b>On-board Storage</b> | Micro SD, up to 1TB                                                                              |

**OPERATIONAL**

|                                 |                                                                |
|---------------------------------|----------------------------------------------------------------|
| <b>Audio</b>                    | Built-in microphone                                            |
| <b>IR Distance</b>              | 20 m                                                           |
| <b>Day &amp; Night</b>          | IR cut filter with auto switch (Day/Night/Auto/Image/Schedule) |
| <b>Backlight Compensation</b>   | Off/On (5 Zones)                                               |
| <b>Wide Dynamic Range</b>       | WDR                                                            |
| <b>Digital Noise Reduction</b>  | 3D DNR                                                         |
| <b>Gain Control</b>             | Auto                                                           |
| <b>White Balance</b>            | Auto/Manual                                                    |
| <b>Electronic Shutter Speed</b> | 1/5 – 1/20000 s                                                |
| <b>Motion Detection</b>         | Off/On (8 Levels)                                              |
| <b>Privacy Masking</b>          | Off/On (4 Zones, Rectangle)                                    |

**GENERAL**

|                                        |                                  |
|----------------------------------------|----------------------------------|
| <b>Operating Temperature/ Humidity</b> | -35°C to +60°C / ≤ 95% RH        |
| <b>Ingress Protection</b>              | IP67                             |
| <b>Input Voltage/ Current</b>          | DC12V / PoE (IEEE802.3af)        |
| <b>Power Consumption</b>               | 2W-3W (IR off) / 4W-5.5W (IR on) |
| <b>Color/Material</b>                  | Black / Metal (Black)            |
| <b>Dimension (WXHxD)</b>               | Ø100×90 mm                       |
| <b>Weight</b>                          | 420 g                            |

## RECORDING BANDWIDTH

**Video Input** 16CH IP

## PERFORMANCE

**Compression** Audio: G.711a  
Video:

**Display Resolution** 8MP (30fps)

**Playback Function** 480fps Max 16CH

## AI FUNCTIONS INSTANT NOTIFICATIONS

Rare Sound Detection Perimeter Intrusion Detection

Face Detection Stationary Object Detection

Crowd Density Detection Human&Vehicle Detection

Line Crossing Detection Queue Length Detection

Heat Map Cross Counting

License Plate Detection

**AI MAX CAPTURED QUANTITY** 200,000 **AI REGISTERED QUANTITY** 10,000

*\*THESE AI FEATURES ONLY WORK WITH IP CAMERAS, OR ANALOG CAMERAS WITH 2MP OR MORE*

## UI/MONITORING

**Web** IE 10/11, Chrome 57+, Firefox 52+, Safari 12.1+, Edge 79+

**Mobile Viewer** OV CONNECT

**P/W Reset** Factory Reset: Yes

**VGA** 1

**HDMI** 1

**Ethernet** 2× RJ45 (100/1000BASE-T)

**PoE** 16 ports, 802.3at/af

**USB** USB2.0\*1(front) USB3.0\*1+USB2.0\*1(rear)

**E-SATA** 1

**HDD** 2 SATA HDDs, up to 20TB each HDD

**RS485** 1

## GENERAL

**OSD Language** English, French, Spanish, Portuguese, German, Italian, Greek, Danish, Finnish/ Russian, Hebrew, Turkish, Bulgarian, Arabic, Korean, Japanese, Thai, Hindi/ Romanian, Dutch, Polish, Persian, Hungarian, Chinese, Ukrainian

**Dimension (W×D×H)** 378×317×50 mm

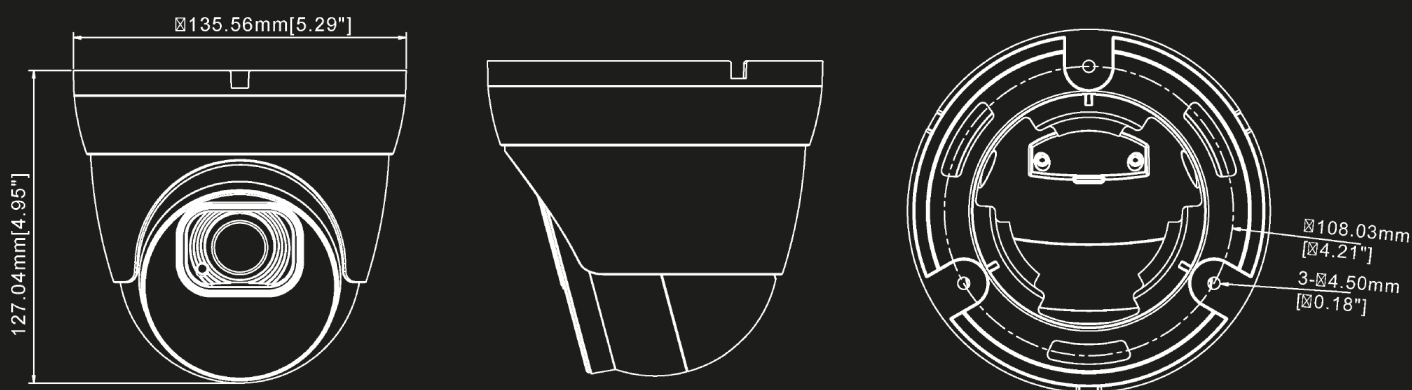
**Input Voltage/Current** ATX 280W

**Power Consumption (Excluding Hard Disk)** 12 W

**Operating Temperature/ Humidity** -10°C to +50°C

## DIMENSIONS

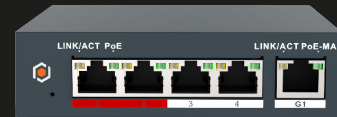
Length: 317 mm | Width: 378 mm | Height: 50 mm



## COMPATIBLE ACCESSORIES



**SWC5POE-GIGA**  
POE SWITCH



**SWC5POE-MAN**  
POE SWITCH



**WD PURPLE PRO**  
UP TO 4TB HARD DRIVE



**WD PURPLE PRO**  
UP TO 8TB HARD DRIVE



**WD PURPLE PRO**  
2× 8TB HARD DRIVES

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### CONNECTION & INTERFACES



HS CODE



UPC CODE



ONVIF COMPLIANT



4K HDMI Output

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