

5MP 12 CHANNEL IP KIT



The KIT12OVIP5MP-AI is a complete AI-powered surveillance solution designed for reliable protection in residential and small commercial environments. It includes 12× TEBFDAIP5MP28-AI-L IP Eyeball Cameras and 1× GSD-NVROV6K-16-N Network Video Recorder, delivering crisp 5MP 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.

5MP
RESOLUTION

5MP
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

Imaging Device	1/2.7" Progressive CMOS
Effective Pixels	5MP 2880×1620
Min. Illumination	Color 0.004 lux @ F1.6 (AGC on); B/W 0 lux (IR on)
Resolution	5MP 2880×1620
Frame Rate	3mp: 30; 4mp: 30; 5mp: 30; 720p: 30; 1080p: 30
Focal Length	2.8 mm
Max Aperture Ratio	F1.6
Angular Field of View	H 110° / V 58° / D 133°
Min. Object Distance	1.8 m
Lens Type	Fixed (M12)

NETWORK

Compression	H.265/H.264
Bitrate Control	CBR/VBR
Bitrate Range	256 Kbps – 8 Mbps
Main Stream	5MP(2880x1620), 4MP(2592x1520), 3MP(2304x1296), 1080P(1920x1080), 720P(1280x720)
Sub Stream	720P(1280x720)
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, SMTP, NTP, UPnP, SNMP, HTTPS, FTP
Ethernet	1× RJ45 (10/100BASE-T)
ONVIF	Profile S/G/T/M
On-board Storage	Micro SD, up to 1TB

OPERATIONAL

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

GENERAL

Operating Temperature/ Humidity	-35°C to +65°C / ≤ 95% RH
Ingress Protection	IP67
Input Voltage/ Current	DC12V / PoE (IEEE802.3af)
Power Consumption	2W-3W (IR off) / 4W-5.5W (IR on)
Color/Material	White / Metal (White)
Dimension (WXHxD)	Ø100×90 mm
Weight	415 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

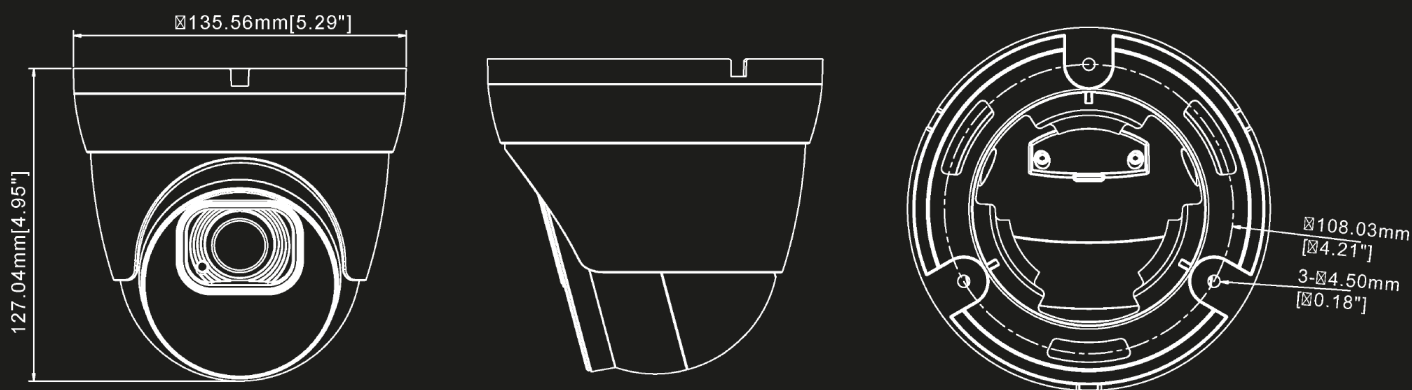
Input Voltage/Current ATX 280W

Power Consumption (Excluding Hard Disk) 12 W

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

DIMENSIONS

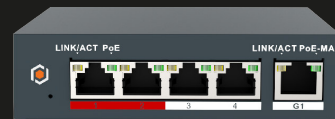
Length: 317 mm | Width: 378 mm | Height: 50 mm



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
2x 8TB HARD DRIVES

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UPC CODE



ONVIF COMPLIANT



4K HDMI Output

DOWNLOAD THE OV CONNECT APP



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