

8MP 16 CHANNEL NETWORK KIT

ONVIF® | GST | NDAA Compliant | AI



The **KIT120VIP8MP-AI** is a powerful, ready-to-deploy surveillance solution designed for high performance and easy installation. It includes 12× TEBFDAIP8MP28-AI-L AI cameras and 1× GSD-NVROV6K-16-N network video recorder, making it ideal for both residential and commercial use.

The cameras deliver sharp 8MP video, 20m night vision, wide-angle coverage (2.8mm), and excellent low-light performance (0.009 lux). Built-in AI features and a microphone enhance monitoring, while PoE (5.5W) simplifies installation.

The NVR supports up to 12MP recording with 4K HDMI output and includes 16 PoE ports with E-PoE for quick setup. With ONVIF compatibility, P2P remote access, and support for up to 20TB storage, it ensures reliable and efficient performance.

This kit is also available in black - KIT120VIP8MP-AI-B

8MP
RESOLUTION



8MP
Resolution

2.8MM
Lens



IR Up to 20M



Built-in
Microphone

12MP
RESOLUTION

Up to 12MP
Resolution



2HDD slots up to
20TB

Onvif

ONVIF Compliant
(G/S/T)



1080P VGA
Output

4K

4K HDMI Output



P2P Connection



Rackmount
Compatible



ONVIF Encoder



VIDEO

Imaging Device	1/2.7"
Effective Pixels	8MP 3840(H)×2160(V)
Scanning System	Progressive CMOS
Min. Illumination	Color 0.009lux @ F1.6(AGC ON) ; B/W 0 lux @ IR ON

LENS TYPE

Focal Length (Zoom Ratio)	2.8 mm
Max. Aperture Ratio	F No. 1.6
Angular Field of View	Horizontal: 110°, Vertical: 58°, Diagonal: 132°
Min. Object Distance	1.8m
Lens Type	Fixed (M12)

OPERATIONAL

IR Viewable Length	Up to 20m
Camera Title	Show/Hide
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
Motion Detection	Off/On (8 Levels)
Privacy Masking	Off/On (4 Zones, Rectangle)
Gain Control	Auto
White Balance	Auto/Manual
Electronic Shutter Speed	1/5 ~ 1/20000s
On-Board Storage	Micro SD slot, up to 1TB
Alarm	NA
Audio	Built-in microphone
Hardware Reset	Yes
Smart Features	Rare Sound Detection (SD) , Perimeter Intrusion Detection (PID), Face Detection (FD), Stationary Object Detection (SOD), Crowd Density Detection (CD), Human&Vehicle Detection (PD&VD), Line Crossing Detection (LCD), Queue Length Detection (QD), Heat Map (HM), Cross Counting (CC), License Plate Detection (LPD)

NETWORK

Ethernet	RJ45(10/100BASE-T)
Video Compression Format	H.265/H.264
Resolution	Main Stream @30fps: 8MP(3840x2160), 5MP(2880x1620), (3072x1728), 4MP(2592x1520), 3MP(2304x1296), 1080P(1920x1080) 960P(1280x960), 720P(1280x720) Sub Stream @30fps: 720P(1280x720), VGA(640x480), QVGA(320x240) Mobile Stream @30fps: VGA(640x480), QVGA (320x240)
Video Quality Adjustment	256Kbps ~ 16Mbps
Bitrate Control Method	CBR/VBR
Streaming Capability	Triple-Stream(Main/Sub/Mobile)
Protocol	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP, SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Security	IP address filter;complicated password; Authenticated username and password
Streaming Method	Unicast/Multicast
Application Programming Interface	ONVIF(Profile S/G/T)
Compatible Web Browsers	IE10/11, Chrome V.57/above, Firefox V.52/ above, Safari V.12.1/above, Edge V.79/above

GENERAL

Operating Conditions	-35°+60°C/less than ≤ 95% RH
Ingress Protection	IP67
Input Voltage / Current	D12V/POE(IEEE802.3af)
Power Consumption (IR OFF)	2W-3W
Power Consumption (IR ON)	4W-5.5W
Color/ Material	White/Metal
Dimension (WXHXD)	Ø100x90mm
Weight	appr. 420g





RECORDING BANDWIDTH

Resolution	12MP/8MP/5MP/4MP/3MP/1080p/720p
Input	320M
Output	320M

PERFORMANCE

Recording Compression	Audio: G.711A,G.711U Video: H.264/H.265/H.264+/H.265+
Speed	12MP: 30fps 8MP: 120fps 4MP: 240fps 2MP: 480fps
Playback	1080P: 480fps Max 16CH

Network

Remote Connection	Up to 640 Users
WEB	IE10/11, Safari V12.1 above, Firefox V.52 above, Google chrome V.57 above, Edge V.79 above
Protocols	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SMTP, SNMP, UPnP, HTTP, HTTPS
API	Onvif (profile G/S/T)
Voice command	Home Device: Google Assistant, Amazon Alexa

AI FEATURES INSTANT NOTIFICATIONS

Human Detection	Region Entrance		
Vehicle Detection	Region Exiting		
Perimeter Intrusion Detection	Rare Sound Detection		
Line Crossing Detection	Stationary Object Detection		
License Plate Detection	Crowd Density Detection		
Facial Recognition	Heat Map		
Intrusion Detection	Noise Detection		
Cross-Counting	Video Tampering		
Fall Detection	Multi Target Type Detection		
Vehicle/Human Attributes	Temperature Measurement		
Fire & Smoke Detection	Face Masking		
AI MAX CAPTURED QUANTITY	200,000	AI REGISTERED QUANTITY	10,000

INTERFACE

P/W Reset	Yes
VGA	1(1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080)
HDMI	1(1024*768, 1280*720, 1280*1024, 1440*900, 1600*1200, 1920*1080, 1920*1200, 2560*1440(2K), 3840*2160 (4K))/EDID 1(1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080) Async out
Ethernet	2 RJ45 100/1000 Base-T
PoE	16*RJ45, 100 Base-T 802.3at/af
USB	USB2.0*1(front) USB3.0*1+USB2.0*1(rear)
Audio Out	1 in / 1 out
E-SATA	1
HDD	2, each up to 20TB each
RS485	1
Alarm Input/Output	16 in / 4 out

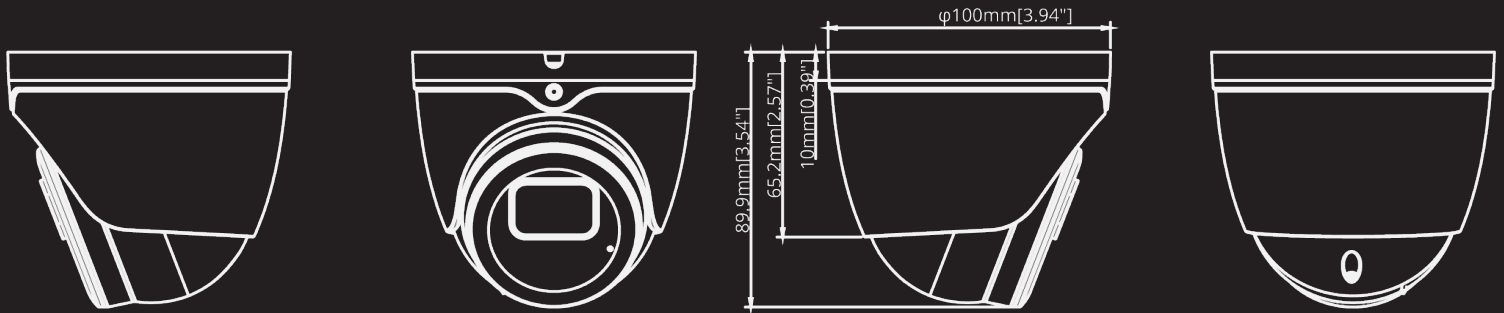
GENERAL

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 (WxDxH)	378*317*50mm
Weight	2975g
Input Voltage/Current	ATX 280W
Power consumption (excluding hard disk)	12W
Operating Temperature/ Humidity	Temperature: -10°C~+50°C (14°F ~ 122°F) Humidity: Less than 90%RH
FCC/CE	Yes
Rackmount Compatible	Yes



DIMENSIONS

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



COMPATIBLE HARD DRIVES



WD-HDDPURPLE-4T
UP TO 4TB HARD DRIVE



WD-HDDPURPLE-8T
UP TO 8TB PRO HARD DRIVE



WD-HDDGOLD-16T
UP TO 16TB GOLD HARD DRIVE