VIASecurity

IP Camera

VIA-IPC-4DP-LIVA2M

VIA-IPC-4DP-LIVA2M is a 4 MP network camera featuring a motorized varifocal lens designed for easy installation and precise monitoring.

The device integrates a 1/3» Progressive Scan CMOS sensor and Fusion Illumination technology, which combines IR and White lights to provide adaptable supplemental lighting.

It utilizes SMART-TC deep learning algorithms for focused human and vehicle classification, alongside a built-in arrayed dual-microphone for real-time, high-quality audio security.

The camera metal housing rated IP67 for weather resistance and IK10 for vandal resistance.

Key Capabilities

- ☑ 4 MP resolution (2688 × 1520)
- ☑ Motorized varifocal lens, 2.8 to 12 mm
- ☑ Fusion Illumination system (IR + white light), up to 40 m
- ☑ 120 dB WDR
- ☑ H.265 / H.264 video compression
- ☑ SMART-TC (Smart Target Classification) - Human and vehicle classification
- ☑ Face detection
- ☑ Built-in arrayed dual-microphone
- ☑ IP67 weather protection, IK10 vandal resistance
- ☑ Support for microSD up to 512 GB

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Fusion ILLUMINATION

HD · IR · IP 67

SPECIFICATION

CAMERA

Image Sensor
1/3" Progressive Scan CMOS

Max. Resolution
2688 × 1520

Min. Illumination
Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light

Shutter Time
1/3 s to 1/100,000 s

Day & Night
IR cut filter

Angle Adjustment
Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°

OPTICAL SYSTEM

Lens Type
Varifocal lens, motorized lens, 2.8 to 12 mm

Focal Length & FOV
2.8 to 12 mm, horizontal FOV 102.4° to 31.2°, vertical FOV 54.7° to 17.6°, diagonal FOV 122.1° to 35.8°

Focus
Ø 14

Iris Type
Fixed

Aperture
F1.6

ILLUMINATION

Supplement Light Range
Up to 40 m

Supplement Light Type
IR, White Light

Smart Supplement Light
Yes

IR Wavelength
850 nm

VIDEO PROCESSING & ENCODING

Main Stream
50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720); 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)

Sub-Stream
50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360); 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)

Third Stream
50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360); 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360), *Third stream is supported under certain settings.

Video Compression
Main stream: H.265/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, *Third stream is supported under certain settings.

Video Bit Rate
32 Kbps to 8 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 and sub-stream

Target Cropping
Yes

AUDIO CAPABILITIES

Audio Compression
G.711/G.722.1/G.726/MP2L2/PCM/MP3/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)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)

Audio Sampling Rate
8 kHz/16 kHz/32 kHz/48 kHz

Environment Noise Filtering
Yes

NETWORK & CYBERSECURITY

Protocols
TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets

Simultaneous Live View
Up to 6 channels

API
ONVIF (Profile S, Profile G), SDK

Security
Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface

User/Host
Up to 32 users, 3 user levels: administrator, operator, and user

Network Storage
NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR).

Web Browser
Plug-in required live view: IE 11; Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+; Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+

IMAGE

Image Parameters Switch
Yes

Image Settings
Rotate mode

Day/Night Switch
Day, Night, Auto, Schedule

Wide Dynamic Range (WDR)
120 dB

SNR
≥ 52 dB

Image Enhancement
BLC, HLC, 3D DNR

Privacy Mask
8 programmable polygon privacy masks

INTERFACE

Ethernet Interface
1 RJ45 10 M/100 M self-adaptive Ethernet port

On-Board Storage
Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB

Audio
Built-in Microphone: Arrayed dual-microphone, 1 input (line in), two-core terminal block, 1 output (line out), two-core terminal block

Alarm
1 input, 1 output (max. 24 VDC/24 VAC, 1 A)

Reset Key
Yes

EVENT

Basic Event
Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception

Smart Event
Face detection

Linkage
Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture

DEEP LEARNING FUNCTION

Perimeter Protection
Line crossing, intrusion, Support alarm triggering by specified target types (human and vehicle)

GENERAL

Power
12 VDC ± 25%, 0.88 A, max. 10.56 W, Ø 5.5 mm coaxial power plug, reverse polarity protection; PoE: IEEE 802.3af, Class 3, max. 12.5 W

Material
Metal

Dimension
Ø 121.5 mm × 97.6 mm (Ø 4.78" × 3.84")

Package Dimension
150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.5")

Weight
Approx. 620 g (1.4 lb.)

With Package Weight
Approx. 880 g (1.9 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
Multi-language interface including English, Ukrainian, Russian and additional international languages.
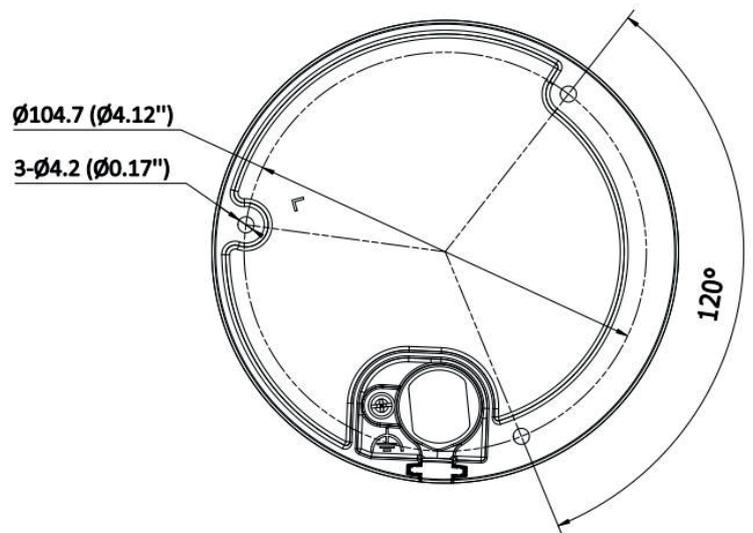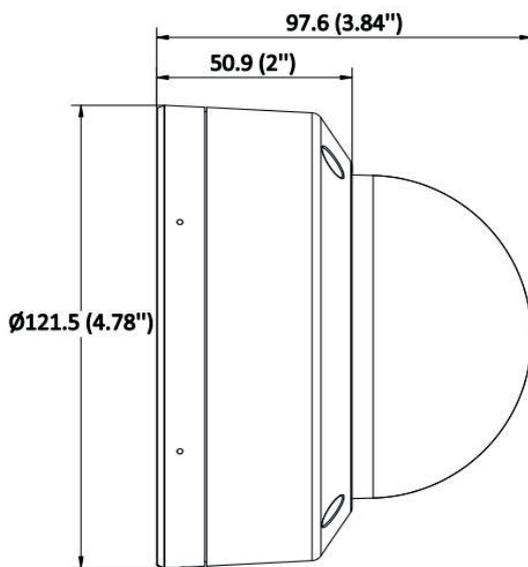
General Function
Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding

Protection
IP67, IK10

DIMENSIONS

97.6 (3.84")

50.9 (2")

Ø121.5 (4.78")

Ø104.7 (Ø4.12")

3-Ø4.2 (Ø0.17")

120°

Unit: mm (inch)

*Product in box may vary in appearence and specifications.

Limited liability company «VIATEK»

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