

## WIFI NVR Kit

# KIT/NVR301-08S4-LW/8\*IPC2122LB-AF28WK-WF



## Features

- **NVR301-08S4-LW**
  - 8-channel input
  - Up to 8MP resolution recording
  - Embedded WiFi Module with high-performance and high stability
  - Support CCMP encryption and WPA2-PSK authentication, Support IP cameras with WiFi in access
  - Support Ultra 265/H.265/H.264 video formats
  - Support 1-ch HDMI, 1-ch VGA
  - Support cloud upgrade
  - Support mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T) and RTSP protocols
  - 1 SATA HDD, Up to 10TB for each HDD
- **IPC2122LB-AF28WK-WF**
  - High quality image with 2MP, 1/3.0" CMOS sensor
  - 2MP (1920\*1080)@25fps; 720P (1280\*720)@25fps
  - Ultra 265, H.265, H.264
  - Built in Mic
  - Smart IR, up to 30m (98ft) IR distance
  - Supports 512 G Micro SD card
  - IP67 protection
  - 3 Axis

## Specifications

- **NVR301-08S4-LW**

| Model                           | NVR301-08S4-LW                                                                                                                         |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Decoding</b>                 |                                                                                                                                        |
| Decoding Format                 | Ultra 265, H.265, H.264                                                                                                                |
| Decoding Capability             | 1 x 8MP@30, 2 x 5MP@25, 3 x 4MP@25, 4 x 3MP@25, 6 x 1080P@30, 8 x 720P@30                                                              |
| Decoding Capability Description | The resolution of each channel cannot exceed 3840 pixels in length and 2160 pixels in width                                            |
| Audio Compression               | G.711A, G.711U                                                                                                                         |
| <b>Network</b>                  |                                                                                                                                        |
| Incoming Bandwidth              | 64 Mbps                                                                                                                                |
| Outgoing Bandwidth              | 48 Mbps                                                                                                                                |
| Max Users Can Be Added          | 32                                                                                                                                     |
| Remote Users                    | 128                                                                                                                                    |
| Protocols                       | TCP/IP, P2P, SMTP, RTSP, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, IPv4                                                          |
| Browser (Plugin)                | IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+                                                                                          |
| <b>Video/Audio Input</b>        |                                                                                                                                        |
| IP Video Input                  | 8-ch                                                                                                                                   |
| <b>Video/Audio Output</b>       |                                                                                                                                        |
| Video Output                    | Support 1-ch HDMI, 1-ch VGA, HDMI and VGA simultaneous output                                                                          |
| HDMI Output                     | 4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| VGA Output                      | 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz                         |
| HDMI Standard                   | HDMI2.0                                                                                                                                |
| 3.5mm Audio Output              | 1-ch                                                                                                                                   |
| Liveview Display                | 1/4/6/8/9                                                                                                                              |
| Default Num of Live Screen      | 9                                                                                                                                      |
| Corridor Mode Screen            | 3/4/5/7/9                                                                                                                              |
| Playback Screen                 | 1/4/9                                                                                                                                  |
| <b>Two-way Audio</b>            |                                                                                                                                        |
| Two-way Audio                   | N/A                                                                                                                                    |
| <b>Snapshot</b>                 |                                                                                                                                        |
| FTP/Schedule/Event Snapshot     | 1-ch snapshot (max. D1 (720 × 576) video resolution, with D1 snapshot resolution)                                                      |
| <b>Recording</b>                |                                                                                                                                        |
| Recording Resolution            | 8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF                                                                                   |
| Num of Concurrent Playback      | 16-ch                                                                                                                                  |
| Synchronous Playback in Local   | 8-ch                                                                                                                                   |
| <b>Smart</b>                    |                                                                                                                                        |
| VCA Detection by IPC            | Face Detection, SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area), Ultra Motion Detection (UMD)                  |
| VCA Search                      | Face Snapshot Search, Behavior Search                                                                                                  |

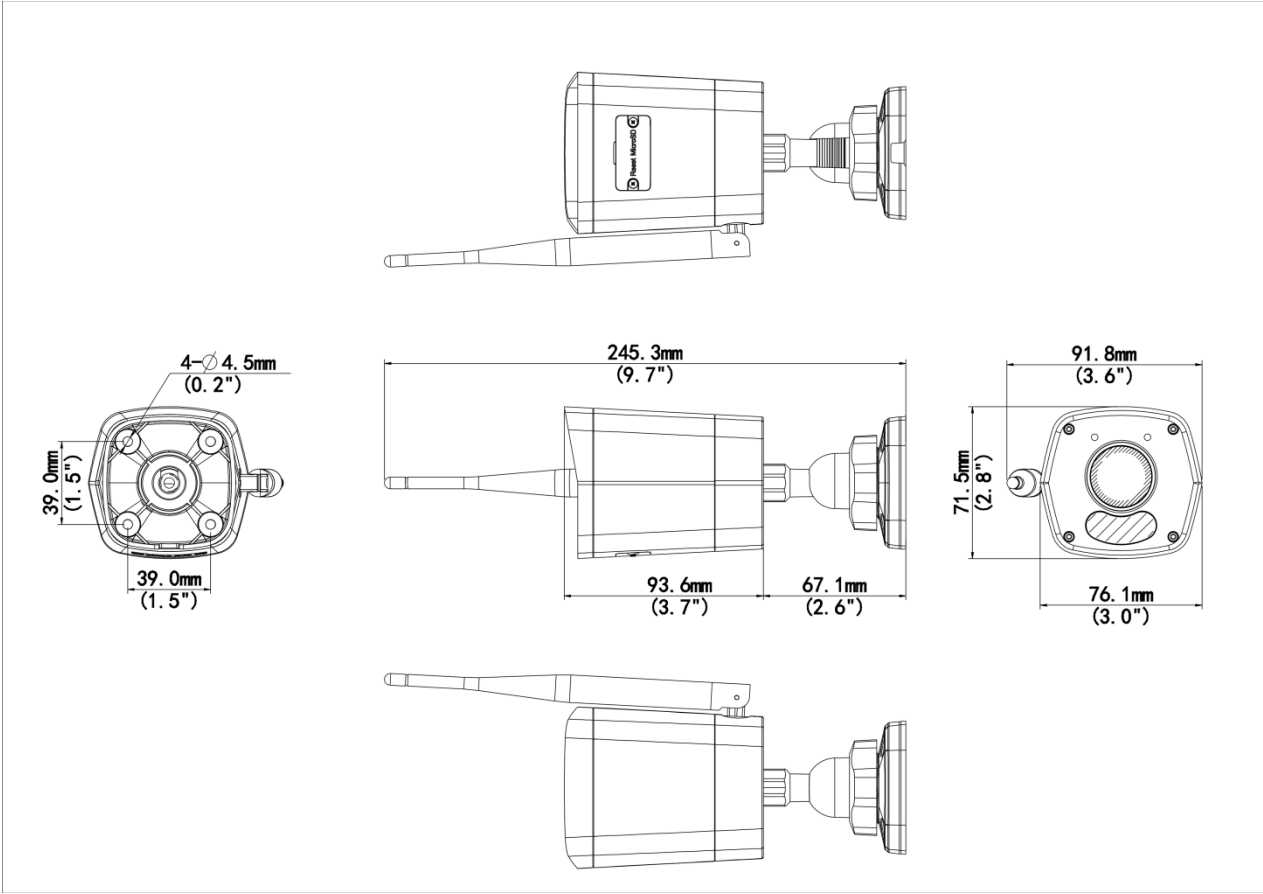
|                                 |                                                                                                                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart by IPC                    | Total 4-ch(Face Detection, SIP, UMD)                                                                                                                                                                                               |
| Capacity of Snapshot Records    | 2 millions records for SIP                                                                                                                                                                                                         |
| Alarm                           |                                                                                                                                                                                                                                    |
| General Alarm                   | Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss, Audio Detection                                                                                                                                      |
| Alert Alarm                     | IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal                                                                                   |
| GUI Language                    |                                                                                                                                                                                                                                    |
| GUI Language                    | 21 languages: Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian |
| Hard Disk                       |                                                                                                                                                                                                                                    |
| SATA                            | 1 SATA Interface                                                                                                                                                                                                                   |
| Capacity                        | Up to 10 TB for each HDD (The maximum HDD capacity varies with environment temperature and hard disk size)                                                                                                                         |
| External Interface              |                                                                                                                                                                                                                                    |
| Network Interface               | 1 RJ45 10 M/100 M self-adaptive Ethernet Interface                                                                                                                                                                                 |
| USB                             | Rear panel: 2 × USB2.0                                                                                                                                                                                                             |
| RS485                           | N/A                                                                                                                                                                                                                                |
| RS232                           | N/A                                                                                                                                                                                                                                |
| Alarm In                        | N/A                                                                                                                                                                                                                                |
| Alarm Out                       | N/A                                                                                                                                                                                                                                |
| Buzzer                          | Support                                                                                                                                                                                                                            |
| Power Supply                    | DC 12 V/2 A                                                                                                                                                                                                                        |
| WiFi                            |                                                                                                                                                                                                                                    |
| Frequency                       | 2.4 GHz                                                                                                                                                                                                                            |
| Transmission Rate               | 150 Mbps                                                                                                                                                                                                                           |
| Wireless Standards              | IEEE 802.11b/g/n, IEEE 802.11ax                                                                                                                                                                                                    |
| Working Environment             |                                                                                                                                                                                                                                    |
| Working Temperature             | -10 °C to 55 °C (14 °F to 131 °F)                                                                                                                                                                                                  |
| Working Humidity                | ≤ 90% RH (non-condensing)                                                                                                                                                                                                          |
| Power Consumption (without HDD) | <12W                                                                                                                                                                                                                               |
| Heat Dissipation                | Radiator                                                                                                                                                                                                                           |
| Dimensions                      |                                                                                                                                                                                                                                    |
| Weight (without HDD)            | ≤0.6Kg (1.32lb)                                                                                                                                                                                                                    |
| Height                          | 1U                                                                                                                                                                                                                                 |
| Dimensions                      | 205mm*205mm*45.6mm                                                                                                                                                                                                                 |
| Certification                   |                                                                                                                                                                                                                                    |
| Certification                   | CE; FCC; UL; RoHS; WEEE                                                                                                                                                                                                            |
| CE                              | EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130                                                                                                                                                                                 |
| FCC                             | Part15 Subpart B                                                                                                                                                                                                                   |
| Compliance                      |                                                                                                                                                                                                                                    |

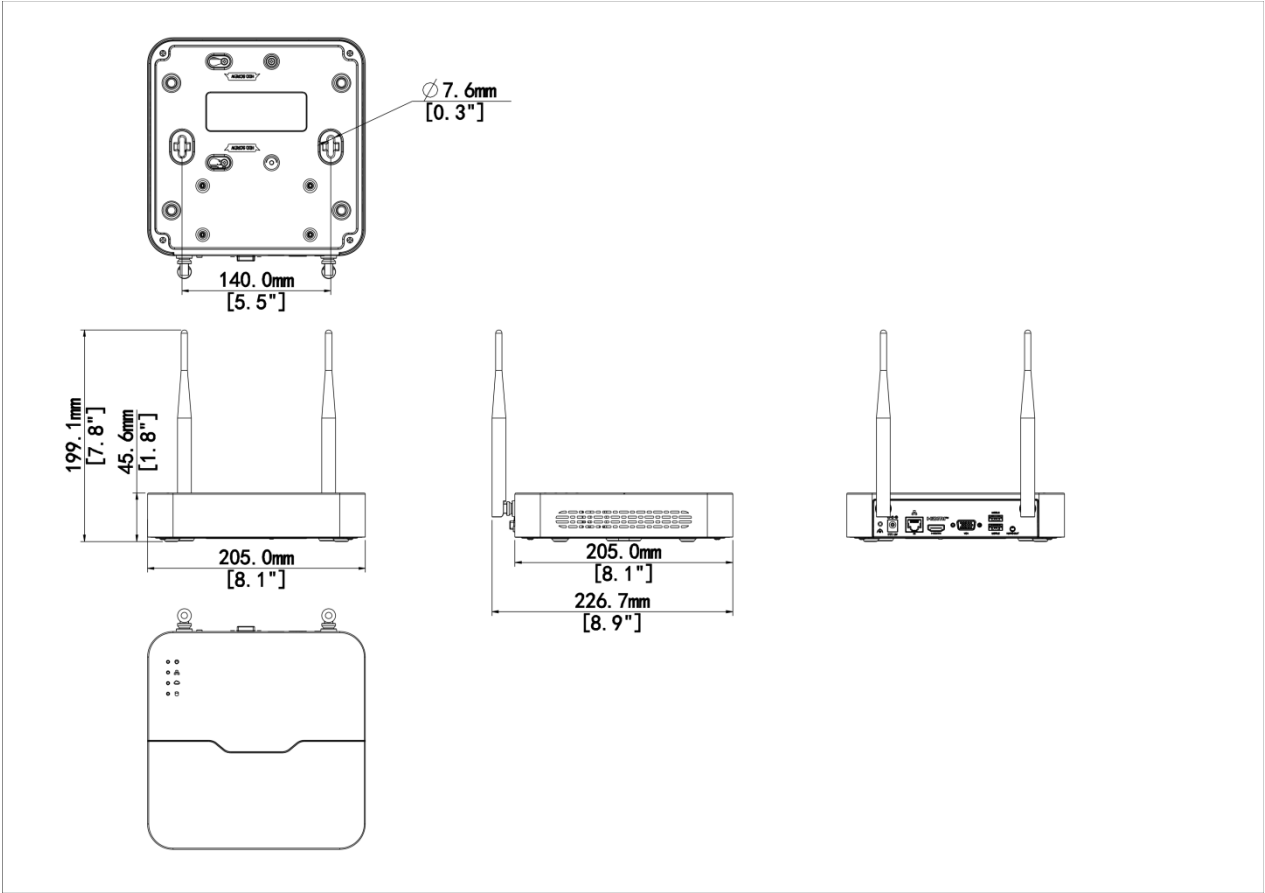
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|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NDA Compliant                                                                | Support                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li><b>IPC2122LB-AF28WK-WF</b></li> </ul> |                                                                                                                                                                                   |
| <b>Model</b>                                                                 | <b>IPC2122LB-AF28WK-WF</b>                                                                                                                                                        |
| <b>Camera</b>                                                                |                                                                                                                                                                                   |
| Max Resolution                                                               | 2 MP                                                                                                                                                                              |
| Sensor                                                                       | 1/3.0" CMOS                                                                                                                                                                       |
| Min. Illumination                                                            | Color: 0.01 Lux (F2.0, AGC ON), 0 Lux with IR on                                                                                                                                  |
| Day/Night                                                                    | IR-cut filter with auto switch (ICR)                                                                                                                                              |
| Shutter                                                                      | Auto/Manual, 1 to 1/100000 s                                                                                                                                                      |
| Adjustment Angle                                                             | Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°                                                                                                                              |
| S/N                                                                          | > 52 dB                                                                                                                                                                           |
| WDR                                                                          | DWDR                                                                                                                                                                              |
| <b>Lens</b>                                                                  |                                                                                                                                                                                   |
| Focal Length                                                                 | 2.8 mm                                                                                                                                                                            |
| Iris Type                                                                    | Fixed                                                                                                                                                                             |
| Iris                                                                         | F2.0                                                                                                                                                                              |
| Field of View (H)                                                            | 94.0°                                                                                                                                                                             |
| Field of View (V)                                                            | 52.4°                                                                                                                                                                             |
| Field of View (D)                                                            | 106.5°                                                                                                                                                                            |
| Lens Type                                                                    | Fixed                                                                                                                                                                             |
| <b>DORI</b>                                                                  |                                                                                                                                                                                   |
| DORI Distance (Lens)                                                         | 2.8 mm                                                                                                                                                                            |
| DORI Distance (Detect)                                                       | 46.7 m (153.1 ft.)                                                                                                                                                                |
| DORI Distance (Observe)                                                      | 18.7 m (61.4 ft.)                                                                                                                                                                 |
| DORI Distance (Recognize)                                                    | 9.3 m (30.6 ft.)                                                                                                                                                                  |
| DORI Distance (Identify)                                                     | 4.7 m (15.4 ft.)                                                                                                                                                                  |
| <b>Illuminator</b>                                                           |                                                                                                                                                                                   |
| Supplemental Light                                                           | IR                                                                                                                                                                                |
| Illumination Distance (IR)                                                   | 30 m (98.4 ft.)                                                                                                                                                                   |
| Wavelength                                                                   | 850 nm                                                                                                                                                                            |
| IR On/Off Control                                                            | Auto/Manual                                                                                                                                                                       |
| <b>Video</b>                                                                 |                                                                                                                                                                                   |
| Video Compression                                                            | Ultra 265, H.265, H.264                                                                                                                                                           |
| H.264 Code Profile                                                           | Baseline profile, Main profile, High profile                                                                                                                                      |
| Frame Rate                                                                   | Main Stream: 1080P (1920 × 1080), max. 25 fps; 720P (1280 × 720), max. 25 fps<br>Sub Stream: 640 × 360, max. 25 fps; 2CIF (704 × 288), max. 25 fps; CIF (352 × 288), max. 25 fps; |
| Video Bit Rate                                                               | 128 Kbps to 2048 Kbps                                                                                                                                                             |
| U-code                                                                       | Support                                                                                                                                                                           |
| OSD                                                                          | Up to 2 OSDs                                                                                                                                                                      |
| Privacy Mask                                                                 | Support (only NVR)                                                                                                                                                                |
| ROI                                                                          | Up to 8 areas                                                                                                                                                                     |
| Video Stream                                                                 | Dual streams                                                                                                                                                                      |

| Image                   |                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| White Balance           | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2                                                                                                             |
| Digital Noise Reduction | 2D/3D DNR                                                                                                                                                        |
| Smart IR                | Support                                                                                                                                                          |
| Flip                    | Normal, Flip vertical, Flip horizontal, 180°                                                                                                                     |
| Dewarping               | N/A                                                                                                                                                              |
| HLC                     | N/A                                                                                                                                                              |
| BLC                     | Support                                                                                                                                                          |
| Defog                   | Digital defog                                                                                                                                                    |
| Events                  |                                                                                                                                                                  |
| Basic Detection         | Ultra motion detection (motion/ human/ vehicle detection)                                                                                                        |
| General Function        | IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication                                               |
| Audio                   |                                                                                                                                                                  |
| Audio Compression       | G.711U, G.711A                                                                                                                                                   |
| Audio Bitrate           | 64 Kbps                                                                                                                                                          |
| Two-way Audio           | N/A                                                                                                                                                              |
| Suppression             | Support                                                                                                                                                          |
| Sampling Rate           | 8 kHz                                                                                                                                                            |
| Storage                 |                                                                                                                                                                  |
| Edge Storage            | MicroSD, up to 512 GB                                                                                                                                            |
| Network Storage         | ANR                                                                                                                                                              |
| Network                 |                                                                                                                                                                  |
| Protocols               | IPv4, TCP, UDP, DHCP, RTSP, DNS, DDNS, NTP, HTTP                                                                                                                 |
| Compatible Integration  | API, SDK                                                                                                                                                         |
| User/Host               | Up to 32 users. 2 user levels: administrator and common user                                                                                                     |
| Security                | Password Protection, Strong Password, HTTPS Encryption, Export Operation Logs, Basic and Digest Authentication for RTSP, Digest Authentication for HTTP, TLS 1.2 |
| Client                  | EZStation, APP                                                                                                                                                   |
| Web Browser             | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+                                                                                            |
| Wi-Fi                   |                                                                                                                                                                  |
| Wireless Standards      | IEEE802.11b/g/n/ax                                                                                                                                               |
| Frequency Range         | 2.4 GHz to 2.4835 GHz                                                                                                                                            |
| Channel Bandwidth       | 20/40 MHz Support                                                                                                                                                |
| Modulation Mode         | 802.11b: CCK<br>802.11g/n: OFDM<br>802.11ax: OFDMA                                                                                                               |
| Wi-Fi Security          | 64/128-bit WEP, WPA-PSK/WPA2-PSK                                                                                                                                 |
| Transmit Power          | 802.11b: 17±1.5 dBm@11 Mbps802.11g: 16±1.5 dBm@54 Mbps802.11n: 16±1.5 dBm@MCS7802.11ax: 16±1.5 dBm@MCS9                                                          |
| Receive Sensitivity     | 802.11b: -76 dBm@11 Mbps (Typical)802.11g: -65 dBm@54Mbps (Typical)802.11n: -61 dBm@MCS7, HT40 (Typical)802.11ax: -54 dBm@MCS9, HE40 (Typical)                   |
| Transmission Rate       | 802.11b: 11 Mbps802.11g: 54 Mbps802.11n: up to 150 Mbps802.11ax: up to 270 Mbps                                                                                  |

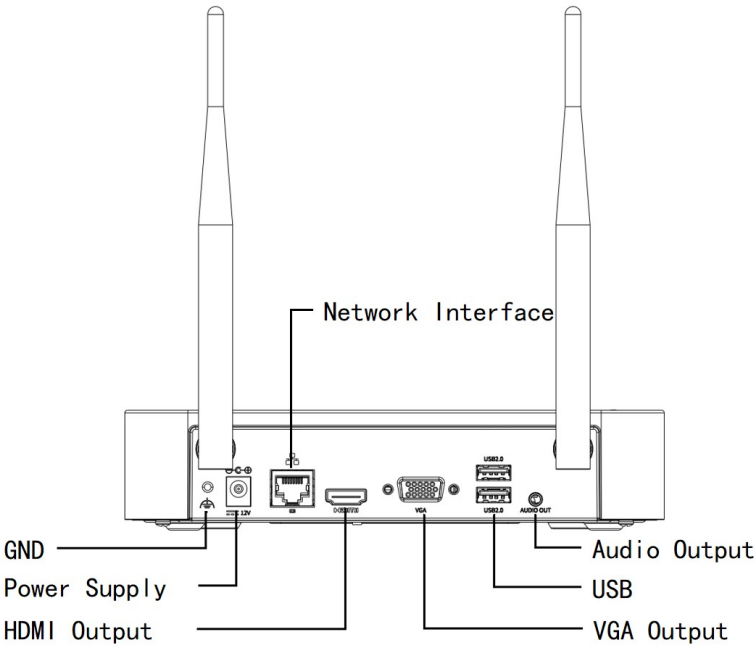
| Interface           |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| Audio I/O           | N/A                                                                                      |
| Alarm I/O           | N/A                                                                                      |
| Serial Port         | N/A                                                                                      |
| Built-in Mic        | Support                                                                                  |
| Built-in Speaker    | N/A                                                                                      |
| WIFI                | Support                                                                                  |
| Network             | 1 × RJ45 10 M/100 M Base-TX Ethernet                                                     |
| Video Output        | N/A                                                                                      |
| Certification       |                                                                                          |
| EMC                 | CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130)<br>FCC (FCC 47 CFR part15 B) |
| RF                  | FCC ID (FCC CFR 47 part15 C)CE RED (EN 301 489-1, EN 301 489-17, EN 300 328, EN 62311)   |
| Safety              | CE LVD (EN 62368-1)                                                                      |
| Environment         | CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU);                                    |
| Protection          | IP67 (IEC 60529)                                                                         |
| General             |                                                                                          |
| Power               | DC 12 V±25%                                                                              |
| Power Consumption   | Max. 3.5 W                                                                               |
| Power Interface     | Ø5.5 mm coaxial power plug                                                               |
| Dimensions          | 160 mm × 76 mm × 72 mm (6.3" × 3.0" × 2.8") (L × W × H)                                  |
| Weight              | 0.25 kg (0.55 lb.)                                                                       |
| Material            | Metal + Plastic                                                                          |
| Storage Environment | -30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)                  |
| Working Environment | -30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)                  |
| LED Indicator       | 1, red/green                                                                             |
| Surge Protection    | 4 KV                                                                                     |
| Reset Button        | Support                                                                                  |
| Web Client Language | 1 Language: English                                                                      |

# Dimensions





Rear Panel



# Unlimited New View

## Zhejiang Uniview Technologies Co., Ltd.



<http://www.uniview.com>



[overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)



No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China



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