

## INVID-K82T86B-DUAL/2TB: (6) 8-Megapixel Turret Cameras with (1) 8 Channel NVR Bundle

(1) PN1B-8X8NH2

(6) PAR-P8TXIR28B-LC3

(1) IHDD-2TB



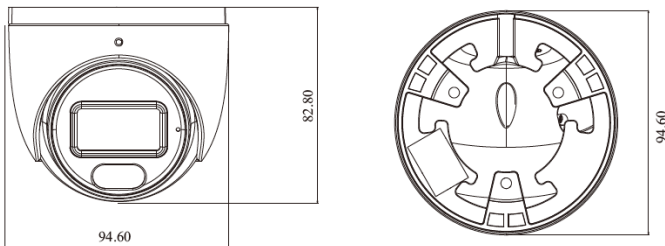
### PAR-P8TXIR28B-LC3

8 Megapixel IP Plug & Play, Outdoor Turret, Fixed Lens, Supplemental Light Options: IR, White Light or IR to White Light on AI Trigger, Built-in Mic, SD Card Slot, 12VDC/PoE

#### Features

- First Level Human and Vehicle Classification
- Supplemental Light Options: IR, White Light, White Light Trigger
- Supports Native Chrome/Edge Use
- True P2P Connectivity with QR Code Connect NAT 2.0
- 8 Megapixel Resolution
- Fixed Lens
- H.265+, H.265, H.264+, H.264, MJPEG
- 20 FPS Recording and Live
- True WDR 120dB
- Micro SD Slot: Up to 256GB
- Audio Input: Built-in Mic
- IP67 Weatherproof
- 12VDC/PoE Operation
- ONVIF
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) for PC/MAC
- NDAA Compliant

|                            |                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera                     | PAR-P8TXIR28B-LC3                                                                                                                                                                |
| Image Sensor               | 1 / 2.8 "CMOS                                                                                                                                                                    |
| Image Size                 | 3840×2160                                                                                                                                                                        |
| Electronic Shutter         | 1 / 3s ~ 1 / 10000s                                                                                                                                                              |
| Iris Type                  | Fixed Iris                                                                                                                                                                       |
| Min. Illumination          | 0.02 lux @F1.6, AGC ON; 0 lux with illumination on                                                                                                                               |
| Lens                       | 2.8mm@F1.6, Horizontal FoV: 106°; Vertical FoV: 57°; Diagonal FoV: 124°                                                                                                          |
| Focus                      | Fixed                                                                                                                                                                            |
| Lens Mount                 | M12                                                                                                                                                                              |
| Day&Night                  | ICR                                                                                                                                                                              |
| Wide Dynamic Range         | 120dB                                                                                                                                                                            |
| BLC                        | Yes                                                                                                                                                                              |
| HLC                        | Yes                                                                                                                                                                              |
| Digital NR                 | Yes                                                                                                                                                                              |
| Defog                      | Yes                                                                                                                                                                              |
| S/N Ratio                  | ≥50dB                                                                                                                                                                            |
| Angle Adjustment           | Pan: 0°~360°; Tilt: 0°~75°; Rotation: 0°~360°                                                                                                                                    |
| Image                      |                                                                                                                                                                                  |
| Video Compression          | Main stream: H.265+ / H.265 / H.264+ / H.264<br>Sub / Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG                                                                      |
| H.265 Compression Standard | Main Profile@Leve4.1 High Tier                                                                                                                                                   |
| Resolution                 | 8MP(3840×2160), 6MP(3200×1800), 4MP(2688×1520), 2K(2560×1440), 1080P (1920×1080), 720P (1280×720), D1, VGA (640×480), 640× 360, 480× 240, CIF                                    |
| Main Stream                | 60Hz: 8MP(1~20fps) / 6MP/4MP/2K/1080P (1~30fps)<br>50Hz: 8MP(1~20fps) / 6MP/4MP/2K/1080P (1~25fps)                                                                               |
| Sub Stream                 | 720P/D1/VGA/640×360/CIF/480× 240 (60Hz: 1~30fps; 50Hz: 1~25fps)                                                                                                                  |
| Third Stream               | 720P/D1/640×360/CIF (60Hz: 1~30fps; 50Hz: 1~25fps)                                                                                                                               |
| Bit Rate                   | 64 Kbps ~12Mbps                                                                                                                                                                  |
| Bit Rate Type              | VBR / CBR                                                                                                                                                                        |
| Image Settings             | ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Image Mirror, Image Flip, NR, etc. adjustable through client software or web browser                        |
| Audio Compression          | G711A/U                                                                                                                                                                          |
| ROI                        | 8ROI, Each ROI to be configured separately                                                                                                                                       |
| Interfaces                 |                                                                                                                                                                                  |
| Network                    | RJ45                                                                                                                                                                             |
| Video Output               | No                                                                                                                                                                               |
| Audio                      | 1CH audio input; 1CH built-in MIC                                                                                                                                                |
| Storage                    | Built-in micro SD card slot, up to 256GB                                                                                                                                         |
| Reset                      | Yes                                                                                                                                                                              |
| Functions                  |                                                                                                                                                                                  |
| Remote Monitoring          | Web browser/ Paramount NVR / Paramount CMS AI / Paramount CMS APP                                                                                                                |
| Web Browser                | Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+                                                                                                                               |
| Online Connection          | Support simultaneous monitoring for up to 10 users;<br>Support multi-stream real time transmission                                                                               |
| Network Protocol           | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, RTMP, PPPoE, DDNS, SMTP, FTP, 802.1x, SNMP, UPnP, HTTP, HTTPS, HTTP POST, P2P, QoS                                                  |
| Interface Protocol         | ONVIF (Profile T)                                                                                                                                                                |
| Storage                    | Network remote storage; micro SD card storage Up to 256GB                                                                                                                        |
| Smart Alarm                | Motion detection, SMD, SD card full, SD card error, IP address conflict, cable disconnection, video exception (scene change, video blur and abnormal color detection)            |
| Smart Event                | Line crossing /region intrusion detection(human/motor vehicle/non-motor vehicle classification), abandoned/missing object detection                                              |
| General Function           | Watermark, IP address filtering, video mask, heartbeat, smart supplement light, corridor pattern, image distortion correction, ANR, cloud upgrade                                |
| PoE                        | Yes (IEEE802.3af)                                                                                                                                                                |
| Supplement Light Range     | IR range: 98'; white light range: 98'                                                                                                                                            |
| Ingress Protection         | IP67                                                                                                                                                                             |
| Security                   | Video encryption, firmware encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP /RTSP |
| DORI Distance              |                                                                                                                                                                                  |
|                            | Detect (ft)      Observe (ft)      Recognize (ft)      Identify (ft)                                                                                                             |
| 2.8mm                      | 259 (79m)      105 (32m)      52 (16m)      27 (8m)                                                                                                                              |
| Others                     |                                                                                                                                                                                  |
| Power Supply               | DC12V/PoE                                                                                                                                                                        |
| Power Consumption          | < 6.5W                                                                                                                                                                           |
| Storage Conditions         | -22°F ~ 149°F (- 30 °C ~ 65°C), Humidity: less than 95 % (non-condensing)                                                                                                        |
| Operating Conditions       | -22°F ~ 140°F (- 30 °C ~ 60 °C), Humidity: less than 95 % (non-condensing)                                                                                                       |
| Dimensions                 | 3.7 x 3.3" (Φ 94.6 × 82.8mm)                                                                                                                                                     |
| Weight ( net )             | Approx. 1 lbs (0.45KG)                                                                                                                                                           |
| Installation               | Ceiling mounting; wall mounting                                                                                                                                                  |
| Certificate                | CE, FCC                                                                                                                                                                          |
| Environmental Protection   | Complies with Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)                                                                                    |





## PN1B-8X8NH2

8 Ch NVR with 8 Plug & Play Ports, 80 Mbps, 1 HD Bay, 4K

### Features

- 8 Plug & Play Ports for easy camera setup PoE (Power Over Ethernet) available on all ports
- Up to 8 Megapixel Resolution Recording
- Smart Analytics/Including AI by ONVIF
- Supports up to 8 channel simultaneous playback
- Works with ONVIF or other supported IP cameras
- Local HDMI main monitor output with 4K support
- Local VGA main monitor output up to 1080p
- True P2P Connectivity with QR Code Connect
- Multiple video search options including Thumbnail Search for quick retrieval of footage.
- H.265S/H.265+/H.265/H.264 video compression
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) to manage multiple units & sites from a single platform
- Free MAC client software to easily manage your system from your Apple computer
- NDAA Compliant

|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| System                   | PN1B-8X8NH2                                                                                                                    |
| OS                       | Embedded Linux                                                                                                                 |
| Video                    |                                                                                                                                |
| Network Input            | 8CH IPC input                                                                                                                  |
| Network Input Resolution | 8MP/6MP/5MP/4MP/3MP/1080P/1280×1024/960P/720P/960H/D1/CIF                                                                      |
| Output                   | HDMI × 1: 3840 × 2160 / 1920 × 1080 / 1280 × 1024/ 1024 × 768<br>VGA: 1920 × 1080 / 1280 × 1024/ 1024 × 768                    |
| Screen Display Mode      | 1/4/6/8/9                                                                                                                      |
| Compression              | H.265S /H.265+ / H.265 / H.264                                                                                                 |
| Audio                    |                                                                                                                                |
| Network Input            | 8 CH IPC audio input                                                                                                           |
| Local Input              | RCA × 1 (for two-way audio)                                                                                                    |
| Local Output             | RCA × 1                                                                                                                        |
| Compression              | G.711(U/A)                                                                                                                     |
| Record                   |                                                                                                                                |
| Resolution               | 8MP/6MP/5MP/4MP/3MP/1080P/1280×1024/960P/720P/960H/D1/CIF                                                                      |
| Frame Rate               | NTSC:30fps; PAL:25fps                                                                                                          |
| Playback                 |                                                                                                                                |
| Simultaneous Playback    | Max. 8 CH                                                                                                                      |
| Search                   | Time slice / time / event / tag / smart search                                                                                 |
| Smart Search             | Highlighted color to display the camera record in a certain period of time, different colors refers to different record events |
| Function                 | Play, pause, FF, FB, digital zoom, etc.                                                                                        |
| Decoding Capability      |                                                                                                                                |
| Live View/ Playback      | 1×8MP@30fps; 6×1080P@30fps                                                                                                     |
| Alarm                    |                                                                                                                                |
| Mode                     | Manual, sensor, motion, exception, smart events                                                                                |
| Input                    | Supports IPC alarm input                                                                                                       |
| Output                   | Supports IPC alarm output                                                                                                      |
| Triggering               | Record, snap, preset, e-mail, etc.                                                                                             |
| Network                  |                                                                                                                                |
| Interface                | RJ 45 × 1 (10/100/1000Mbps)                                                                                                    |

### Ordering Information

**INVID-K82T86B-DUAL**

|                                                 |                                                                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol                                        | TCP / IP, IPv4, IPv6, UDP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, HTTP, SMTP, HTTPS, 802.1x, RTSP, RTP, RTCP, WebSocket, SNMP, IGMP, ONVIF      |
| Incoming/ Outgoing Bandwidth                    | 80/80 (Mbps) *When the AI function of the IPC is enabled, the actual incoming bandwidth(max.bitrate) is more than the set value in the NVR. |
| Client Connection                               | Max. 64 users access                                                                                                                        |
| Face                                            |                                                                                                                                             |
| Face Detection Performance (AI by IPC)          | 8 CH (NH-AI Models)                                                                                                                         |
| Face Detection Performance (AI by Device ONVIF) | 2 CH/ 2MP                                                                                                                                   |
| Face Match Performance                          | No (Does NOT Support Facial Recognition)                                                                                                    |
| Statistical Graph of Information                | Bar graph                                                                                                                                   |
| Statistical Mode of Information                 | Statistics by day, week, month, quarter as well as customized time period                                                                   |
| Video Structure Analysis                        |                                                                                                                                             |
| Human/Vehicle Classification (AI by IPC)        | Up to 8 CH                                                                                                                                  |
| Human/Vehicle Classification (AI by Device)     | 2 CH                                                                                                                                        |
| Human/Vehicle Attribute Analysis                | Yes (AI by IPC)                                                                                                                             |
| Other Functions                                 |                                                                                                                                             |
| Fisheye                                         | Supports fisheye dewarping via Web Client and mobile APP                                                                                    |
| Plate Recognition (AI by IPC)                   | Up to 8 CH                                                                                                                                  |
| Mobile Device                                   |                                                                                                                                             |
| OS                                              | iOS, Andriod                                                                                                                                |
| Storage                                         |                                                                                                                                             |
| HDD Interface                                   | SATA3.0 × 1, up to 18TB                                                                                                                     |
| Backup                                          |                                                                                                                                             |
| Local Backup                                    | USB, USB To HDD (1TB Max)                                                                                                                   |
| Network Backup                                  | Yes                                                                                                                                         |
| Port                                            |                                                                                                                                             |
| USB                                             | USB 2.0 × 2, USB to                                                                                                                         |
| Remote Controller                               | Included                                                                                                                                    |
| PoE                                             |                                                                                                                                             |
| PoE Ports                                       | 100M RJ45 × 8                                                                                                                               |
| Standards                                       | IEEE802.3AF/AT                                                                                                                              |
| Output Power                                    | ≤ 72W                                                                                                                                       |
| Others                                          |                                                                                                                                             |
| Power Supply                                    | DC 48V/1.8A                                                                                                                                 |
| Consumption                                     | ≤ 10W ( without HDD )                                                                                                                       |
| Dimensions ( W × D × H )                        | 11.8 x 9.8 x 1.7 In (300 × 249 × 45 mm)                                                                                                     |
| Working Environment                             | 14°F ~ 122°F (-10°C ~ 50°C)10% ~ 90% humidity                                                                                               |
| Certificate                                     | CE, FCC, ETL: 5025761                                                                                                                       |
| Environmental Protection                        | Complies with Directive EU RoHS, REACH and WEEE                                                                                             |

