### 8K Cameras

Hanwha Techwin America - NDAA Compliant Product List

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<th>Camera ID</th>
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<td>XNV-9250R</td>
<td>4K IR Outdoor Vandal Dome AI Camera</td>
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<td>XNP-9250R</td>
<td>4K, 25x IR PTZ camera</td>
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<td>XNF-9010RV</td>
<td>12MP, WN7 Fisheye</td>
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<td>XNO-C9083R</td>
<td>4K IR Bullet AI camera</td>
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<td>XNP-9250</td>
<td>4K, 25x PTZ camera</td>
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**8K Product Details**

- **Camera Type**: 4K Network AI IR Dome Camera
- **Resolution**: Max. 4K resolution
- **Low Light**: 0.05Lux@F1.6 (Color), 0Lux (B/W, IR LED on)
- **Power**: PoE+/12VDC
- **Focal Length**: Fixed focal lens modules, triple codec H.265/H.264/MJPEG with WiseStream II technology, 120dB WDR @ 2MP or 150dB @ 5MP
- **Analytics**: Built-in analytics, 2x SD card, hallway view, Night (ICR), extreme WDR (120dB)
- **Support**: DIS with built-in Gyro sensor, Handover, Analytics events: Defocus detection, Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification, FIPS 140-2, micro SD card 512GB, IP66, IK10, Operating temperature: -40°C ~ +55°C (-40°F ~ +131°F)
- **Features**: High powered IR LEDs range of 200m, extreme WDR, 120dB, built in analytics, 2x SD cards slots, hallway view, Video analytics based on AI, Object detection and classification (Person, Face, Vehicle, License Plate), Attribute, BestShot, Compatible with Wisenet Retail Insight v2.0 for Business Intelligence, Age/gender based People counting, Heatmap, Queue management, Modular structure for easy installation, PoE+, Face Mask Detection, Social Distancing Detection

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### Network PNM-9000QB

**Remote head 2MP x 4CH camera**

**Network PNM-9002**

**Multi-sensor Camera**

**Network PNM-9002**

**Special order only**

**Network PNM-9083R**

**4K IR Outdoor Vandal Dome AI Camera**

**Network XNP-9084RQZ**

**2MP x 4 outdoor Dome, PTRZ w/IR**

**Limited Stock**

**2MP x 4ch multi-directional camera, Motorized PTRZ support, Max. 60fps@2MP(H.265, H.264), 3.2~10mm(3.1x) motorized varifocal lens, IR**

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**Network PNM-9008**

**Remote head 2MP x 4CH camera**

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**Network XNP-9250R**

**4K, 25x IR PTZ Camera**

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**Network XNF-9010RV**

**WN7 Fisheye**

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**Network XNO-C9083R**

**4K IR Bullet AI Camera**

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**Network XNP-9250**

**4K, 25x PTZ Camera**

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**Network XNF-9010RV**

**WN7 Multi Head Camera**

**4x 2MP @ 30fps, triple codec H.265/H.264/MJPEG, extreme WDR 150dB, dual SD cards slots, WiseStream II, hallway view, Night (ICR), extreme WDR (120dB), DIS with built-in Gyro sensor, Handover, Analytics events: Defocus detection, Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification, FIPS 140-2, micro SD card 512GB, IP66, IK10, Operating temperature: -40°C ~ +55°C (-40°F ~ +131°F).**

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**Network XNP-9250R**

**4K, 25x IR PTZ Camera**

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**Network XNF-9010RV**

**WN7 Network Vandal Outdoor Multi-sensor Multi-Directional dome camera, 2MP x 4ch multi-directional camera, Motorized PTRZ support, Max. 60fps@2MP(H.265, H.264), 3.2~10mm(3.1x) motorized varifocal lens, IR**
<table>
<thead>
<tr>
<th>Camera</th>
<th>Network</th>
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</tr>
</thead>
<tbody>
<tr>
<td>TNB-6030 PVM</td>
<td></td>
<td>Camera - Network PVM Camera powered by Wisenet 5, 1080p (1920x1080), micro HDMI output, 16:9 aspect ratio, face detection display for visual deterrent, IP66, IK10.</td>
</tr>
<tr>
<td>ANO-6012R1</td>
<td></td>
<td>Camera - Network Indoor Dome camera, 2MP @ 30fps, motorized vari-focal lens (3.3~10.3mm) motorized vari-focal lens 3.1x, triple codec (H.265/H.264/MJPEG with Wisestream II, SD card, advanced video analytics and sound classification, PTZ handover, open platform, DIS(Gyro), IP66, IK10, NEMA4X, PoE/12VDC, white color.</td>
</tr>
<tr>
<td>LNV-6072R</td>
<td></td>
<td>LNV-6072R 2MP IR Vandal Dome L series outdoor vandal dome camera, 2MP @ 30fps, vari-focal lens 3.1x (3.2 ~ 10mm) (101.6° ~31.3°), Double codec H.264/MJPEG, Wisestream.</td>
</tr>
<tr>
<td>TNU-4041T</td>
<td></td>
<td>TNU-4041T VGA Thermal Positioning Special order.</td>
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<tr>
<td>TNO-4030T</td>
<td></td>
<td>TNO-4030T VGA Thermal Bullet Special order.</td>
</tr>
<tr>
<td>ANO-6022R1</td>
<td></td>
<td>Camera - Network Indoor Dome camera, 2MP @ 30fps, 4mm fixed focal lens (80°), Double codec H.264/MJPEG, Wisestream II, 120dB WDR, IR viewable length 30m(98.43ft), Day &amp; Night Auto (ICR), FOV H: 113.7° / V: 61.5°, IVA, Tampering, Motion detection, Focus Save.</td>
</tr>
<tr>
<td>QNP-6250</td>
<td></td>
<td>QNP-6250 2MP 25x PTZ 3 Week Lead Time.</td>
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<tr>
<td>QNP-6250R</td>
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<td>QNP-6250R 2MP IR 25x PTZ 3 Week Lead Time.</td>
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<tr>
<td>QNO-6082R1</td>
<td></td>
<td>QNO-6082R1 2MP IR Bullet Available.</td>
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<tr>
<td>QND-6012R</td>
<td></td>
<td>QND-6012R 2MP IR Indoor Dome.</td>
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<td>LNV-6022R</td>
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<td>LNV-6022R 2MP IR Vandal Dome L series outdoor vandal dome camera, 2MP @ 30fps, vari-focal lens 3.1x (3.2 ~ 10mm) (101.6° ~31.3°), Double codec H.264/MJPEG, Wisestream II, 120dB WDR, IR viewable length 30m(98.43ft), Day &amp; Night Auto (ICR), FOV H: 113.7° / V: 61.5°, IVA, Tampering, Motion detection, Focus Save.</td>
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<td>QNO-6012R1</td>
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<tr>
<td>LNV-6012R1</td>
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<td>LNV-6012R1 2MP IR Indoor Dome camera, 2MP @ 30fps, motorized vari-focal lens 3.1x (3.2 ~ 10.0mm) (109°~33°), triple codec H.265/H.264/MJPEG with Wisestream II, SD card, advanced video analytics and sound classification, PTZ handover, open platform, DIS(Gyro), IP66, IK10, NEMA4X, PoE/12VDC, white color.</td>
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<td>QNO-6012R1</td>
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<td>Camera - Network Outdoor vandal dome camera, 2MP @ 30fps, motorized vari-focal lens 3.1x (3.2 ~ 10.0mm) (109°~33°), triple codec H.265/H.264/MJPEG with Wisestream II, SD card, advanced video analytics and sound classification, PTZ handover, open platform, DIS(Gyro), IP66, IK10, NEMA4X, PoE/12VDC, white color.</td>
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<td>QNO-6082R1</td>
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<td>Camera - Network Outdoor vandal dome camera, 2MP @ 30fps, motorized vari-focal lens 3.1x (3.2 ~ 10.0mm) (109°~33°), triple codec H.265/H.264/MJPEG with Wisestream II, SD card, advanced video analytics and sound classification, PTZ handover, open platform, DIS(Gyro), IP66, IK10, NEMA4X, PoE/12VDC, white color.</td>
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For additional product selection guidance, please contact LPRsupport@hanwha.com.
WAVE - Appliance WRN-810S-8TB WAVE recording server with PoE+ 3 Weeks Lead Time

WAVE - Appliance WRN-810S-6TB WAVE recording server with PoE+ 3 Weeks Lead Time

WAVE - Appliance WRN-810S-1TB WAVE recording server with PoE+ 3 Weeks Lead Time

WAVE - Appliance WRT-P-5201W-24TB WAVE Recording Server 2 Weeks Lead Time

WAVE - Appliance WRR-P-E 200S2-36TB WAVE Recording Server 2 Weeks Lead Time

WAVE - Appliance WRR-P-E 200S2-16TB WAVE Recording Server 2 Weeks Lead Time

WAVE - Appliance WRR-P-E 200S2-12TB WAVE Recording Server 2 Weeks Lead Time

WAVE - Appliance WRR-P-S 202S1-28TB WAVE recording server 2 weeks lead time

WAVE - Appliance WRR-P-S 202W1-96TB WAVE recording server 2 weeks lead time

WAVE - Appliance WRR-P-S 202W1-48TB WAVE recording server 2 weeks lead time

WAVE - Appliance WRR-P-S 202W1-40TB WAVE recording server 2 weeks lead time

WAVE - Appliance WRR-P-S 202W1-24TB WAVE recording server 2 weeks lead time

Dual GbE NICs

Wisenet WAVE pre-installed, H.264/H.265/MJPEG, 2 fixed internal SATA HDDs (6TB max per HDD), Wisestream technology, HDMI/VGA output,

2U WAVE PoE NVR (Intel based) with 4 Professional licenses, 12TB RAW, supports: 16 channels with 16 PoE/PoE+ ports (PoE Budget 200W),

2U WAVE PoE NVR (Intel based) with 4 Professional licenses, 8TB RAW, supports: 16 channels with 16 PoE/PoE+ ports (PoE Budget 200W),

2U WAVE PoE NVR (Intel based) with 4 Professional licenses, 6TB RAW, supports: 16 channels with 16 PoE/PoE+ ports (PoE Budget 200W),

B/W, (1) 2.5" HDD, (10th Gen) Intel Core i3, 8GB RAM, 256 GB SSD OS Drive, Windows 10 IoT Enterprise, (1) HDMI, (1) DisplayPort output,

DisplayPort to HDMI adapter included, Dual GbE NICs, Single 550W power supply, Keyboard and mouse included

Windows Server 2019 Standard, Support RAID 0/1/5/6 + 8GB NV cache, Nvidia GPU, MiniDP output, VGA output, Quad GbE NICs, IPMI, Redundant 750W power supply, Keyboard and mouse included

Mini-tower form factor Wisenet WAVE Network Video Recorder with 4 Professional licenses, Wisenet WAVE pre-installed, 4TB raw, 170 Mbps B/W, (1) 2.5" HDD, (10th Gen) Intel Core i3, 8GB RAM, 256 GB SSD OS Drive, Windows 10 IoT Enterprise, (1) HDMI, (1) DisplayPort output, Rail kit included

2U Wisenet WAVE Network Video Recorder with 4 Professional licenses, Wisenet WAVE pre-installed, 16TB raw (7TB usable after disk formatting & RAID 6 configuration), 470 Mbps recording B/W, 14 HDD Bay (3.5"), Intel Xeon, 16GB RAM, Dual 240GB SSD OS drives (RAID 1), Windows 10

Windows 10 Pro, Support RAID 0/1/5/6 + 8GB NV cache, Nvidia GPU, MiniDP output, VGA output, Quad GbE NICs, IPMI, Redundant 750W power

2U Wisenet WAVE Network Video Recorder with 4 Professional licenses, Wisenet WAVE pre-installed, 20TB raw (160TB usable after disk formatting & RAID 6 configuration), 470 Mbps recording B/W, 14 HDD Bay (3.5"), Intel Xeon, 16GB RAM, Dual 240GB SSD OS drives (RAID 1), Windows 10 Pro, Support RAID 0/1/5/6 + 8GB NV cache, Nvidia GPU, MiniDP output, VGA output, Quad GbE NICs, IPMI, Redundant 750W power
VER-CSTORE15-112TB Veracity Coldstore 3U, 112TB
Veracity Coldstore 3U, 400mbps, L.A.I.D with SFS disk filing system, requires WAVE Server (not included) to operate, 15 internal SATA HDD bays,

VER-CSTORE15-96TB Veracity Coldstore 3U, 96TB
Veracity Coldstore 3U, 400mbps, L.A.I.D with SFS disk filing system, requires WAVE Server (not included) to operate, 15 internal SATA HDD bays,

VER-CSTORE15-48TB Veracity Coldstore 3U, 48TB
Veracity Coldstore 3U, 400mbps, L.A.I.D with SFS disk filing system, requires WAVE Server (not included) to operate, 15 internal SATA HDD bays,

VER-CSTORE15-154TB Veracity Coldstore 3U, 154TB
Veracity Coldstore 3U, 400mbps, L.A.I.D with SFS disk filing system, requires WAVE Server (not included) to operate, 15 internal SATA HDD bays,

XRN-6410DB4-16TB NVR

XRN-6410DB4-88TB NVR

XRN-6410DB4-12TB NVR

WAVE- Appliance WRR-Q-A 200W-84TB WAVE Recording Server 3 Weeks Lead Time

WAVE- Appliance WRR-Q-A 200W-48TB WAVE Recording Server 3 Weeks Lead Time

WAVE- Appliance WRR-Q-A 200W-32TB WAVE Recording Server 3 Weeks Lead Time

Wisenet A Series 16CH PoE NVR, 4TB Hard Drive Pre-Installed, Embedded Linux, H.265, H.264, MJPEG codec, Plug & play by 16 PoE (LAN, I/O, 2-way audio, ONVIF, maximum camera resolution of 32MP recording/display and fisheye dewarping on WEB and CMS, Support RAID 5/6 (4TB * 8 = 32TB), when RAID Mode is configured, Dual stream recording, 16 Hot Swap HDD bays, iSCSI, redundant power, 2x HDMI dual display, Alarm I/O, 2-way audio, ONVIF, maximum camera resolution of 32MP recording/display and fisheye dewarping on WEB and CMS, Support RAID 5/6 (8TB * 8 = 64TB), when RAID Mode is configured, Dual stream recording, 16 Hot Swap HDD bays, iSCSI, redundant power, 2x HDMI dual display, Alarm

8K NVR (Intel based), 64CH, No HDD, H.265/H.264/MJPEG, ARB (Automatic Recovery Backup) & Failover (N+1), 400Mbps recording/ up to 400Mbps playback through RAID 1 (320Mbps playback through RAID 0), Dual stream recording, 16 Hot Swap HDD bays, iSCSI, redundant power, 2x HDMI dual display, Alarm

2U Wisenet WAVE Network Video Recorder with 4 Professional licenses, Wisenet WAVE pre-installed, 16TB raw (14TB usable after disk formatting with RAID Mode), when RAID Mode (RAID 5) is configured, Dual stream recording, 16 Hot Swap HDD bays, iSCSI, redundant power, 2x HDMI dual display, Alarm

2U Wisenet WAVE Network Video Recorder with 4 Professional licenses, Wisenet WAVE pre-installed, 12TB raw (10TB usable after disk formatting with RAID Mode), when RAID Mode (RAID 5) is configured, Dual stream recording, 16 Hot Swap HDD bays, iSCSI, redundant power, 2x HDMI dual display, Alarm

2U Wisenet WAVE Network Video Recorder with 4 Professional licenses, Wisenet WAVE pre-installed, 48TB raw (44TB usable after disk formatting with RAID Mode), when RAID Mode (RAID 5) is configured, Dual stream recording, 16 Hot Swap HDD bays, iSCSI, redundant power, 2x HDMI dual display, Alarm

Wisenet SKY Location Set (Wisenet SKY products are only available for Wisenet SKY certified partners)

Coldstore 3U Rack Rail
4 weeks lead time 90-264 VAC 50/60hz

4 weeks lead time 14 slot card case

4 weeks lead time 1000Mb

**Camera - Analog HD**

HCO-6070R 2MP Analog HD IR Bullet Wisenet HD+ 2MP, Full HD(1080p) 30fps IR outdoor bullet camera, AHD/TVI/CVI/CVBS, manual Vari-focal Lens (3.1X) (3.2-10mm), 120 dB true D/N, 24VAC/12VDC, IR

HCV-6070R 2MP Analog HD IR Outdoor Dome Wisenet HD+ 2MP, Full HD(1080p) 30fps IR outdoor dome camera, AHD/TVI/CVI/CVBS, manual Vari-focal Lens (3.1X) (3.2-10mm), 120 dB true D/N, 24VAC/12VDC, IR

HCO-7070RA 4MP Wisenet HD+ Bullet Camera Pentabrid compatible Wisenet HD+ 4MP IR bullet camera, AHD or CVBS formats are available, manual vari-focal Lens (3.1X) (3.2-10mm), true D/N, 24VAC/12VDC, IR

HCV-7020RA 4MP Wisenet HD+ Outdoor Dome Camera Pentabrid compatible Wisenet HD+ 4MP IR outdoor dome camera, AHD or CVBS formats are available, 4.0 mm fixed lens, true D/N, 12VDC, IR distance 82 feet,

**Transmission**

Fiber TMC-FSTS1-B 100M Media Converter (B) 4 weeks lead time

Hardened media fiber converter (B), cage mountable, 100mbps, ST connector, single-mode, 1 fiber, power supply included, TMC-FSTS1ACM-A or TMC-FSTS1BCM-A

**Switch**

SWT-G11MGHP 11 Port Hardened Managed Gigbit Ethernet

**Recording**

Network XRN-1620SB1-16TB NVR with PoE+

Network XRN-1620SB1-24TB NVR with PoE+

Network XRN-820S-12TB NVR with PoE+

**Camera - Analog HD**

SCV-6085R AHD IR Vandal Dome Wisenet HD+ 2MP, Full HD(1080p) 30fps IR vandal dome camera, 1/2.8" 2M CMOS, Vari-focal Lens (3.1X) (3.2-10mm), 60dB DWDR, true D/N,

**Transmission**

SFP Module SFP-GRJC SFP to RJ45 4 weeks lead time

**Transmission**

Accessory SBP-C14 Card case

**Switch**

With -40⁰C Start-Up 24VAC/12VDC

Selectable universal output

**Network Switches and Transmission Devices**

Installation

XRN-1620SB 4TB NVR (Intel based), 16TB RAW, 16 channels with 16 PoE/PoE+ ports (PoE Budget 200W), H265,H264, MJPEG, 4 fixed internal SATA HDDs

XRN-1620SB 4TB NVR (Intel based), 4TB RAW, 4CH with 4 PoE/PoE+ ports (PoE Budget 35W), H265,H264, MJPEG, 1 fixed internal SATA HDDs (6TB max)

XRN-1620SB 8TB NVR (Intel based), 8TB RAW, 8 channels with 8 PoE/PoE+ ports (PoE Budget 100W), H265,H264, MJPEG, 2 fixed internal SATA HDDs (6TB max per HDD), ARB (Automatic Recovery Backup), 100 Mbps recording / up to 32 Mbps playback, Dual stream recording, WiseStream technology, HDMI/VGA dual display, max. resolution of 32MP recording/display and fisheye dewarping on web and CMS, web UI 2.0 (no plugins required), AI search

XRN-1620SB 12TB NVR (Intel based), 12TB RAW, 8 channels with 8 PoE/PoE+ ports (PoE Budget 100W), H265,H264, MJPEG, 2 fixed internal SATA HDDs (6TB max per HDD), ARB (Automatic Recovery Backup), 140 Mbps recording / up to 32 Mbps playback, Dual stream recording, WiseStream technology, HDMI/VGA dual display, max. resolution of 32MP recording/display and fisheye dewarping on web and CMS, web UI 2.0 (no plugins required), AI search

XRN-1620SB 16TB NVR (Intel based), 16TB RAW, 16 channels with 16 PoE/PoE+ ports (PoE Budget 200W), H265,H264, MJPEG, 4 fixed internal SATA HDDs

XRN-1620SB 8TB NVR (Intel based), 8TB RAW, 8 channels with 8 PoE/PoE+ ports (PoE Budget 100W), H265,H264, MJPEG, 2 fixed internal SATA HDDs (6TB max per HDD), ARB (Automatic Recovery Backup), 100 Mbps recording / up to 32 Mbps playback, Dual stream recording, WiseStream technology, HDMI/VGA dual display, max. resolution of 32MP recording/display and fisheye dewarping on web and CMS, web UI 2.0 (no plugins required), AI search

XRN-1620SB 4TB NVR (Intel based), 4TB RAW, 4CH with 4 PoE/PoE+ ports (PoE Budget 35W), H265,H264, MJPEG, 1 fixed internal SATA HDDs (6TB max)

XRN-1620SB 8TB NVR (Intel based), 8TB RAW, 8 channels with 8 PoE/PoE+ ports (PoE Budget 100W), H265,H264, MJPEG, 2 fixed internal SATA HDDs (6TB max per HDD), ARB (Automatic Recovery Backup), 100 Mbps recording / up to 32 Mbps playback, Dual stream recording, WiseStream technology, HDMI/VGA dual display, max. resolution of 32MP recording/display and fisheye dewarping on web and CMS, web UI 2.0 (no plugins required), AI search
Lens SLA-C-I3910 1/1.8" 3.9-10mm (i-CS Mount) 4 weeks lead time 1/1.8" 3.9-10mm F1.5 Varifocal, HD Series P-iris (i-CS Mount) Day/Night IR (12 MP capable) for AI Box Camera (PNB-A9001)

Lens SLA-2M2400Q PNM-9000VQ Lens module For the PNM-9000VQ, 1/2.8" 2MP CMOS with a 2.4mm fixed focal lens, FoV: H: 135.4˚, V: 71.2˚, for the PNM-9000VQ

Lens SLA-5M3700P PNM-9322VQP Lens module

Lens SLA-2M6000Q PNM-9000VQ Lens module For the PNM-9000VQ, 1/1.8" 5MP CMOS with a 3.7mm fixed focal lens, FoV: H: 97.5˚, V: 71.9˚ for the PNM-9000VQ

Lens SLA-5M4600P PNM-9322VQP Lens module

Lens SLA-T2480A 2.4mm Lens/Imager straight body for

Lens SLA-T4680VA 4.6mm Lens/Imager right angle body for PNM-9322VQP

Lens SLA-T4680 4.6mm Lens/Imager straight body for

Wisenet HD+ Pentabrid DVR AHD (up to 8MP), - 4TB Raw Storage.TVI (up to 8MP), CVI (up to 5MP), CVBS and IP (up to 8MP), • Max. Analog 8CH

HDMI/VGA video output, 1 X spot monitor output, QR code , Up to 4 SATA HDDs (6TB/HDD)

Recording Bandwidth Max. 50Mbps, Playback Bandwidth 32Mbps. 8CH audio input/ 1CH audio output, 8 alarm input and 4 relay output, coaxial control,

HDMI/VGA video output, 1 X spot monitor output, QR code , Up to 4 SATA HDDs (6TB/HDD)

Recording Bandwidth Max. 30Mbps, Playback Bandwidth 32Mbps. 4CH audio input/ 1CH audio output, 4 alarm input and 2 relay output, coaxial control,

HDMI/VGA video output, 1 X spot monitor output, QR code , Up to 2 SATA HDDs (6TB/HDD)

Recording Bandwidth Max. 50Mbps, Playback Bandwidth 32Mbps. 8CH audio input/ 1CH audio output, 8 alarm input and 4 relay output, coaxial control,

HDMI/VGA video output, 1 X spot monitor output, QR code , Up to 4 SATA HDDs (6TB/HDD)

Recording Bandwidth Max. 30Mbps, Playback Bandwidth 32Mbps. 4CH audio input/ 1CH audio output, 4 alarm input and 2 relay output, coaxial control,