

## 16ch 12MP 320Mbps Real-time Advanced AI PoE NVR



- 16 Channels of IP Cameras, 4K Resolution
- Smart Motion Detection (Human, Vehicle, Perimeter, Line Crossing, etc.)
- AI Analytics (Facial, Vehicle, License Plate, Cross Counting, Heat Map, Crowd Density, Queue Depth, Stranded Object, Missing Object, Gun Shot/Dog Bark/Baby Cry Detection)
- 320 Mbps Input Bandwidth
- 16 Plug-n-Play PoE Ports
- H.265+/H.265/H.264 Video Compression
- P2P Remote Access w/ Mobile App or Client Software via QR Code
- Browser-based Remote Access
- Dual HDMI Display Outputs (1 @ 4K, 1 @ 1920x1080/EDID) A-Sync
- Dual 10/100/1000 Network Interfaces
- Dropbox/Google Drive/FTP/Email Alarm Image/Video Support
- RTMP Support for Streaming Live to Youtube
- Amazon Alexa & Google Chromecast Support
- DDNS Support
- Network-Attached Storage
- NDAA Compliant
- 3-Year Warranty

Technical Specifications

| Video                     |                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Inputs             | 16                                                                                                                                                                   |
| Camera Input Resolution   | 12MP, 8MP, 5MP, 3MP, 2MP(1080P), 1.3MP(960P), 1.0MP(720P)                                                                                                            |
| Incoming Bandwidth        | 320 Mbps                                                                                                                                                             |
| Outgoing Bandwidth        | 320 Mbps                                                                                                                                                             |
| Output                    | 2 x HDMI (1x 4k, 1x 1080P A-Sync Out)<br>1 x VGA (1920*1080, 1440*900, 1280*1024, 1280*720, 1024*768)                                                                |
| Compression               | H.265+, H.265, H.264+, H.264, MJPEG                                                                                                                                  |
| Streams                   | 3 - Mainstream, Substream, Mobile Stream                                                                                                                             |
| Audio                     |                                                                                                                                                                      |
| Network Input             | 16 Channels                                                                                                                                                          |
| Local Input               | RCA x1                                                                                                                                                               |
| Local Output              | RCA x 1, HDMI                                                                                                                                                        |
| Compression               | G.711a, G711u                                                                                                                                                        |
| Record                    |                                                                                                                                                                      |
| Resolution                | 12MP, 8MP, 5MP, 3MP, 2MP(1080P), 1.3MP (960P), 1.0MP(720P)                                                                                                           |
| Max Channel FPS           | 60 FPS (camera dependent)                                                                                                                                            |
| Max Channels at 4K@30FPS  | 16ch                                                                                                                                                                 |
| Playback                  |                                                                                                                                                                      |
| Simultaneous Playback     | 16-ch                                                                                                                                                                |
| Search                    | Time Slice / Time / Event / Tag Search / Smart Search / AI                                                                                                           |
| Function                  | Play, Pause, FF/FB (2/4/8/16x), Slow Forward (1/2, 1/4, 1/8, 1/16x), Single Frame Step                                                                               |
| Frame Rate                | 12MP: 30FPS, 4K: 120 FPS, 4MP: 240FPS, 2MP: 480FPS                                                                                                                   |
| Alarm                     |                                                                                                                                                                      |
| Mode                      | Manual, Sensor, Motion, Exception, AI Events                                                                                                                         |
| Input                     | 16 Physical Input/IP Camera Alarm Input                                                                                                                              |
| Output                    | 4 Physical Outputs/IP Camera Alarm Output                                                                                                                            |
| Action                    | Record, Message, Push Notification, Email, FTP Image/Video upload, Cloud Image/Video upload, Voice Alert                                                             |
| Functions                 |                                                                                                                                                                      |
| License Plate Recognition | Yes                                                                                                                                                                  |
| Facial Recognition        | Yes                                                                                                                                                                  |
| Additional AI             | Pedestrian, Vehicle, Perimeter Intrusion, Line Crossing, Cross Counting, Heat Map, Crowd Density, Queue Depth, Rare Sound, Abandoned/Missing Object, Video Tampering |
| Active Deterrence Support | Yes                                                                                                                                                                  |
| Fisheye Dewarp            | No (Dewarp avail. using the X-VMS software)                                                                                                                          |
| Cloud Storage             | Google Drive / Dropbox                                                                                                                                               |
| Voice Assist              | Amazon Alexa/Echo, Google Chromecast                                                                                                                                 |
| Regions of Interest (ROI) | Yes                                                                                                                                                                  |

| Other               | Live Stream to Youtube.com                                            |
|---------------------|-----------------------------------------------------------------------|
| Mobile Device       |                                                                       |
| OS                  | Android, iOS                                                          |
| App                 | XMV                                                                   |
| P2P Easy Setup      | Yes                                                                   |
| Primary Storage     |                                                                       |
| HDD Interface       | SATA x 2 (up to 16 TB drives)                                         |
| E-SATA              | Yes                                                                   |
| Network Storage     | NAS (NFS, SMB/CIFS)                                                   |
| Disk Groups         | No                                                                    |
| Backup              |                                                                       |
| Local Backup        | USB Flash, USB HDD                                                    |
| Network Backup      | FTP, Cloud, NAS                                                       |
| Connections         |                                                                       |
| USB                 | 2 x USB 2.0 front/rear, 1 x USB 3.0 rear                              |
| RS485               | No                                                                    |
| PoE                 |                                                                       |
| PoE Ports           | 16 RJ-45 10/100M Self-Adaptive Ethernet                               |
| Standards           | IEEE 802.3af/at                                                       |
| Output Power        | Max 30W for a single port, Max 220W in total                          |
| General             |                                                                       |
| Power Supply        | ATX 280W                                                              |
| Power Consumption   | 12 W (without HDD)                                                    |
| Dimensions (mm)     | 378 x 317 x 50                                                        |
| Working Environment | Temperature: -10°C~ +50° (14°F ~ 122°F)<br>Humidity: Less than 90% RH |
| NDAA-Compliant      | Yes                                                                   |