**AI** People & Vehicle Detection
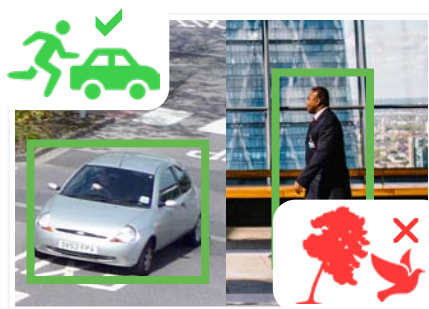Gen. 2

**AI Quick** Search

# AI-enhanced CCTV upgrades.

## Compact Series: NVRs available in 4, 8 and 16 channels with PoE

The Watchguard™ Compact AI Series brings the best of AI surveillance features in an affordable package. Bring AI face recognition or AI person/vehicle detection to your CCTV installations, guaranteeing that important events are detected and can be acted upon. This NVR is perfect for new systems or replacement of existing NVRs to upgrade to AI capable surveillance.

- Records up to 16.0 megapixel (4920 x 3264)
- Up to 256Mbps incoming bandwidth; H.265 support
- Perimeter protection with up to 10 IVS rules per
- AI tripwire/intrusion rule by NVR up to 2 channels, or;
- AI face recognition up to 1 channel by NVR, or;
- AI motion detection by NVR up to 4 channels

- Support for ANPR up to 4 channels
- Up to 2 x SATA bay with support for up to 16TB capacity
- Up to 16 built-in port PoE switch HDDs per bay
- HDMI and VGA simultaneous video output
- Backup footage via external USB device or local network
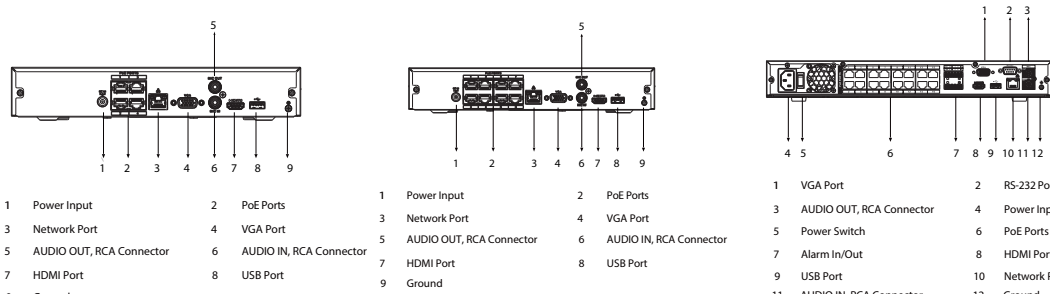- Decoding up to 16CH@1080P/25fps (AI disabled)

**AI Powered Facial Recognition**

**Smart Person & Vehicle Detection**

**Intelligent Footage Searching**

| Specifications | | 4 Channel NVR | 8 Channel NVR | 16 Channel NVR |
|---|---|---|---|---|
| **General** | Ordering Information | NVR4COM-I | NVR8COM-I | NVR16COM-I |
| | Main Processor / OS | Industrial-grade processor, Embedded Linux | | |
| | Video Input | 4 channel | 8 channel | 16 channel |
| | Interoperability | ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK | | |
| **Display** | Video Output | 1 x HDMI, 1 x VGA | | |
| | Display Resolution | Configurable from 3840 x 2160 to 1280 x 720 | | |
| | Display Split | 1st screen - 1/4, 2nd screen - 1/4 | 1st screen - 1/4/8/9, 2nd screen - 1/4/8/9 | 1st screen - 1/4/8/9/16, 2nd screen - 1/4/8/9/16 |
| **Recording** | Recording Resolution | Configurable from 16.0MP (4920 x 3264) to CIF (352 x 288) | Configurable from: 16.0MP (4920 x 3264) to D1 (704 x 480) | Configurable from 16.0MP (4920 x 3264) to CIF (352 x 288) |
| | Incoming Bandwidth (AI Disabled) | 80Mbps Mbps incoming (recording/outgoing) | 256Mbps Mbps incoming (recording/outgoing) | 256Mbps Mbps incoming (recording/outgoing) |
| | Incoming Bandwidth (AI Enabled) | 80Mbps Mbps incoming (recording/outgoing) | 180Mbps Mbps incoming (recording/outgoing) | 180Mbps Mbps incoming (recording/outgoing) |
| | Decoding Capacity (AI Disabled) | 4 channel: 8.0MP (25fps) | 8 channel 4.0MP (25fps) | 16 channel 1080P (25fps) |
| | Decoding Capacity (AI Enabled) | 4 channel: 5.0MP (25fps) | 8 channel: 1080P (25fps) | 16 channel 1080P (25fps) |
| | Video Compression | Smart H.265+ / H.265 / H.264 / H.264+ / MJPEG | | |
| | Record Modes | General / motion detection / intelligent / alarm | | |
| **AI** | AI Functions by Recorder | Face detection, face recognition, AI Tripwire/Intrusion and AI Human/Vehicle Detection | | |
| | AI Functions by Cameras | Face detection, ANPR, People Counting, Heatmap, AI Tripwire/Intrusion and AI Human/Vehicle Detection | | |
| **Face Detection & Recognition** | Face Detection (Recorder) | 1 channel | | |
| | Face Detection (Cameras) | 4 channels | 8 channels | 8 channels |
| | Face Detection Features | Whitelist, Blacklist, Stranger Mode | | |
| | Face Detection Performance | Up to 10 face databases with 200,000 face images | | |
| | Face Recognition (Recorder) | 1 channel (with Ultimate AI cameras) | | |
| | Face Recognition (Cameras) | 4 channels | 8 channels | 8 channels |
| | Face Recognition Performance | 12 face images/s | | |
| **Motion Detection** | Tripwire/Intrusion (Recorder) | 2 channels, 10 IVS rules for each channel | | |
| | Tripwire/Intrusion (Cameras) | 4 channels | 8 channels | 8 channels |
| | Motion Detection (Recorder) | 4 channels | | |
| | Motion Detection (Cameras) | 4 channels | 8 channels | 8 channels |
| **Features** | Alarm Input / Output | N/A | N/A | 4 channels / 2 channels |
| | Trigger Events | Record, snapshot, IPC external alarm output, audio, buzzer, log, preset, email | | |
| | Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) | | |
| | Backup Modes | USB device and network | | |
| **Network** | Ethernet | 1 x RJ-45 port (10/100Mbps) | 1 x RJ-45 port (10/100/1000Mbps) | 1 x RJ-45 port (10/100/1000Mbps) |
| | Power over Ethernet | 4 ports, 10/100 Mbps, IEEE 802.3 af/at | 8 ports, 10/100 Mbps, IEEE 802.3 af/at | 16 ports, 10/100 Mbps, IEEE 802.3 af/at |
| | Network Functions | HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, Easy4ip | | |
| | Remote View | iOS (iPhone, iPad) / Android devices | | |
| **Storage** | Internal HDD | 1 x SATA III Ports up to 16TB | 1 x SATA III Ports up to 16TB | 2 x SATA III Ports up to 16TB |
| | USB Interface | 2 USB ports: 1 x Rear USB 2.0 / 1 x Front USB 2.0 | | |
| **Environment** | Power Supply | 53VDC / 1.226A | 53VDC / 1.812A | 100~240VAC / 47/63 Hz |
| | Power Consumption | <10W (without HDD) / PoE: Max 25.5W for single port, 36W total | <10W (without HDD) / PoE: Max 25.5W for single port, 72W total | <10W (without HDD) / PoE: Max 25.5W for single port, 130W total |
| | Operating Environment | -10℃ ~ +55℃ / 10 ~ 93%RH | | |
| | Dimensions / Rack Units | 260mm x 233mm x 48mm / 1U | 260mm x 233mm x 48mm / 1U | 375mm x 328mm x 53mm / 1U |
| | Weight | 0.86kg (without HDD) | 0.92kg (without HDD) | 2.60kg (without HDD) |
| **Additional Information** | Product Diagrams | | | |

**NVR4COM-I**

| | | | |
|---|---|---|---|
| 1 | Power Input | 2 | PoE Ports |
| 3 | Network Port | 4 | VGA Port |
| 5 | AUDIO OUT, RCA Connector | 6 | AUDIO IN, RCA Connector |
| 7 | HDMI Port | 8 | USB Port |
| 9 | Ground | | |

**NVR8COM-I**

| | | | |
|---|---|---|---|
| 1 | Power Input | 2 | PoE Ports |
| 3 | Network Port | 4 | VGA Port |
| 5 | AUDIO OUT, RCA Connector | 6 | AUDIO IN, RCA Connector |
| 7 | HDMI Port | 8 | USB Port |
| 9 | Ground | | |

**NVR16COM-I**

| | | | |
|---|---|---|---|
| 1 | VGA Port | 2 | RS-232 Port |
| 3 | AUDIO OUT, RCA Connector | 4 | Power Input |
| 5 | Power Switch | 6 | PoE Ports |
| 7 | Alarm In/Out | 8 | HDMI Port |
| 9 | USB Port | 10 | Network Port |
| 11 | AUDIO IN, RCA Connector | 12 | Ground |

Above: **NVR4COM-I, NVR8COM-I & NVR16COM-I**

Your local Watchguard™ professional: