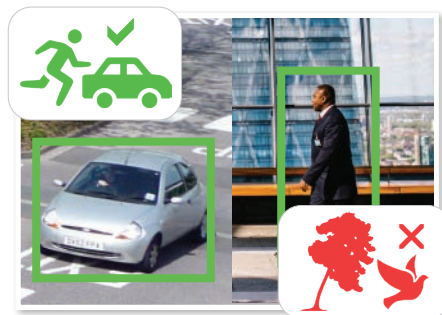# AI-enhanced surveillance.

Compact Series: Smart AI Face Recognition NVRs available in 16 channels

The Watchguard™ Compact AI Series offers advanced technologies to transform the way surveillance works for you. Monitor your operations with greater efficiency, security & reliability using intelligent face recognition, people/vehicle identification & more. Identify strangers & VIPs, create blacklists, search footage playback and receive intelligent alerts to your devices for highly reliable security notifications.

- Record beyond Ultra HD up to 16.0MP (4920 x 3264)
- 200Mbps incoming bandwidth (80Mbps with AI)
- 2 x SATA ports for up to 20TB HDD storage
- Built in PoE switch (ePoE & EoC support for ports 1-8)
- Native Ultra HD live view on 4K monitors via HDMI
- Perimeter protection for up to 4 channels (10 IVS rules per channel) for accurate vehicle and people detection
- Identify people with 2 channels for face recognition
- AI face searching for up to 8 faces at once (12 faces/sec)
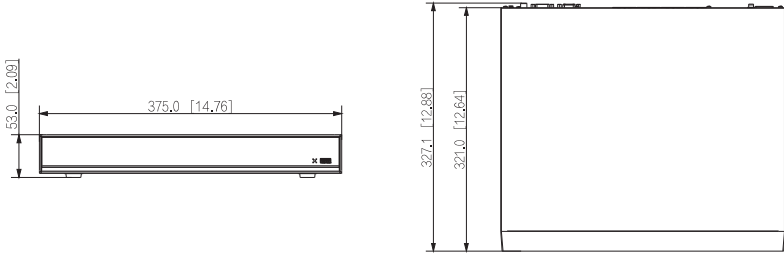- Receive face recognition & perimeter alerts on device(s)

AI Powered Facial Recognition

Smart Person & Vehicle Detection

Intelligent Footage Searching

You deserve to feel safe, secure and protected.™

Product specifications may be subject to change.

Specifications	16 Channel AI NVR
Ordering Information	NVR16COM-I
General	
Main Processor / OS	Multi-core Embedded Processor, Embedded Linux OS
Video Input	16 Channels
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Interoperability	ONVIF 2.4, SDK,CGI
Display	
Video Output	1 x HDMI, 1 x VGA
Display Resolution	Configurable from 3840 x 2160 to 1024 x 768
Display Split	1/4/8/9/16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Recording	
Recording Resolution	Configurable from: 16.0MP (4920 x 3264) to D1 (704 x 480)
Incoming Bandwidth	200Mbps (80Mbps when AI function is enabled)
Decoding Capacity	2 channel: 8.0MP (30fps) / 8 channel: 1080p (30fps)
Video Compression	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Record Modes	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS
Record Interval	1~120 min (default: 60 min) / Pre-record: 1~30s / Post-record: 10~300s
Face Recognition	
Performance	Max. 12 face pictures per second (modeling and comparing), 2 channels face recognition with standard cameras (Performance varies depending on camera and resolution)
Stranger Mode	Detect strangers face (not in database)
AI Search	Up to 8 target face images at the same time
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture
Database Application	Each database can be applied to video channels independently
Trigger Events	Buzzer, Voice Prompts, Email, snapshot, Recording, Alarm Out, PTZ activation, etc.
Perimeter	
Performance	4 channels, 10 IVS rules for each channel
AI Search	Search by target classification (Human, Vehicle)
Object Classification	Human / vehicle secondary recognition for tripwire and intrusion
Metadata	
Face	Gender, age, glasses, beard, mask
Vehicle	Vehicle colour, vehicle model, vehicle logo, plate colour, vehicle decorations, call, seatbelt
Human Body	Tops style, tops colour, bottom style, bottom colour, hat , bag
Non-motor Vehicle	Type, colour, people, number
AI Search	Support search target video by metadata
Features	
Alarm Input / Output	4 channel alarm inputs / 2 channel relay output
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt , Buzzer & Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 x 18), Video Loss, Tampering & Scene Change
Playback Sync	1/4/9/16
Search Modes	Time / Date, Alarm, MD & Exact Search (to the second)
Backup Modes	USB Device / Network
Network	
Ethernet	1 RJ45 Ports (10/100/1000Mbps)
Power over Ethernet	16 Ports (IEEE802.3af/at), 1-8 Ports Support ePoE & EoC
ePoE Range	300m (100Mbps, 25.5W), 800m (10Mbps, 13W)
Network Functions	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Center, IP Search (Support IP camera, DVR, NVS, etc.), P2P
Max. User Access	128 users
Remote View	IOS (iPhone,iPad), Android Devices
Storage	
Internal HDD	2 x SATA III Ports up to 10TB, max. 20TB HDD capacity
HDD Modes	N/A
USB Interface	2 x USB Ports (1 x Rear USB 3.0, 1 x Front USB 2.0)
Auxiliary Inputs	1 x RS232
Environment	
Power Supply	Single, 100V~240VAC, 3.5A
Power Consumption	<6.1W (without HDD)/ PoE: Max 25.5W for single port, 130W total
Operating Environment	-10℃ ~ +55℃ / 0 ~ 90%RH / 86 ~ 106kpa
Dimensions / Rack Units	375mm x 327mm x 53mm, 1U
Weight	2.68kg (without HDD)
Additional Information	
Product Diagrams	

Your local Watchguard™ professional: