

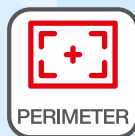
Data Sheet

AL-NVR5040-4D-R

40CH SMART RAID NETWORK VIDEO RECORDER

40CH 4K 4SATA RAID NVR

- 40-Ch Input Up to 4K
- 4K Recording resolution
- Bandwidth- 800Mbps
- ONVIF (PROFILE S/T/G), SDK, P2P
- Up to 10TB for each HDD
- JBOD, RAID0/1/5/6/10
- 1 CH, 3.5MM & 1xRCA
- 2xRJ45 self-adaptive 10/100/1000Mbps
- 1x USB 2.0, 1xUSB 3.0
- VCA: Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Video Abnormal; Audio Abnormal; License Plate Recognition; On Duty Detection; Crowd Detection; Parking Guard; Safety Helmet Detection; Electric Bicycle Detection; P
eople Counting; Link to Tracking; Smoke and Fire Detection; Environmental Temperature Measurement; Face Detection;



PERIMETER



VIDEO
ABNORMAL
DETECTION



TRIPWIRE



PARKING



OBJECT
ABANDON



OBJECT
LOST



ON DUTY
DETECTION



AUTO
TRACKING



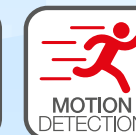
CROWD



PEOPLE
COUNTING



LOITERING



MOTION
DETECTION

40CH RAID NETWORK VIDEO RECORDER

The Alcon AL-NVR5040-4D-R NVR is for the Smarter generation. It is a Smart Enterprise NVR which supports up to 40ch IP camera input and recording. It Supports Smart Recording, Smart Search. It Supports any 3rd party OEM IP camera with ONVIF compliance. The Alcon Premium Series NVR also supports intelligent video analytics like Face Detection, People Counting and many other features

Video Recording & Management

High-Resolution Recording: Supports HD, Full HD and even higher resolutions for detailed surveillance.

Smart Recording: Optimized recording based on motion detection, schedules, or events.

Video Compression: Efficient formats like H.264, H.265, or H.265+ reduce storage requirements without compromising quality.

Customizable Recording Modes: Continuous recording, Motion-based recording & Event-triggered recording

Remote Access & Monitoring

Mobile & Desktop Apps: Provides live viewing and playback via smartphones, tablets, or PCs.

Web Access: Access video feeds via web browsers using IP addresses or dedicated portals.

Multi-Site Monitoring: Centralized viewing of feeds from multiple NVRs in different locations.

Connectivity & Compatibility

ONVIF Compliance: Ensures compatibility with a wide range of IP cameras from different manufacturers.

AI & Smart Analytics

VCA: Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification

Ease of Use

Plug-and-Play Setup: Simplifies installation with auto-camera detection.

User-Friendly Interface: Intuitive menus and graphical displays for configuration and monitoring.

Firmware Updates: Ensures up-to-date security and feature enhancements.

Scalability

Expandable Channels: Easily add more cameras as surveillance needs grow.

Integration with VMS: Works with Video Management Software for enterprise-level solutions.

Security & Alerts

Encryption: Protects video streams during transmission and storage.

Multi-User Access Control: Role-based permissions to restrict unauthorized access.

Real-Time Alerts: Notifications for motion, tampering, or system failures via email, SMS, or apps.



Hospital



Industries



Office



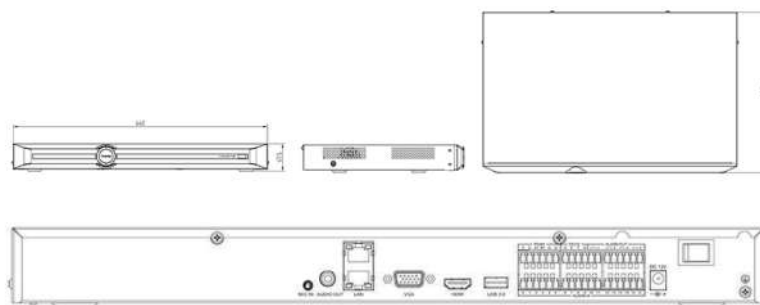
Apartment

SPECIFICATION

| Video and Audio | | AL-NVR5040-4D-R |
|------------------------------|--|--|
| Access Channel | | 40 |
| Incoming Bandwidth | | 400Mbps |
| Outgoing Bandwidth | | 400Mbps |
| Resolution | | 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF |
| Preview Decoding Capability | | 16MP(30fps)×2, 12MP(30fps)×3, 8MP(30fps)×4, 6MP(30fps)×4, 5MP(30fps)×6, 4MP(30fps)×8, 3MP(30fps)×9, 1080P(30fps)×16, 720P(30fps)×32, 4CIF(30fps)×40 |
| Playback Decoding Capability | | 16MP(30fps)×2, 12MP(30fps)×3, 8MP(30fps)×4, 6MP(30fps)×4, 5MP(30fps)×6, 4MP(30fps)×8, 3MP(30fps)×9, 1080P(30fps)×16, 720P(30fps)×16 |
| Third-party Camera Access | | ONVIF; RTSP |
| HDMI Output | | HDMI: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz), 2560×1440(30Hz/60Hz), 2560×1600(60Hz), (4K)3840×2160(30Hz/60Hz) |
| VGA Output | | VGA: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz) |
| Multi-screen Display | | Independent Output: HDMI: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40 VGA: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40 |
| Audio Input | | 1-ch, 3.5mm |
| Audio Output | | 1-ch, RCA (Linear, 1 KΩ) |
| Two-Way Audio | | 1-ch, 3.5mm, using the audio input |
| Compression | | |
| Video | | S+265; H.265; S+264; H.264 |
| Audio | | G711A; G711U; AAC; ADPCM_DIV4 |
| Stream Type | | Video; Video & Audio |
| Network | | |
| Network Protocol | | ARP; DDNS; DHCP; DNS; Easy DDNS; FTP; HTTP; HTTPS; ICMP; IGMP; IPv4; IPv6; Multicast; NFS; NTP; PPPoE; RTCP; RTP; RTSP; SMB/CIFS; SMTP; SNMP v1; SRTP; SSH; SSL; TLSv1.2, TLSv1.3; TCP/IP; UDP; Unicast; UPnP |
| Mobile Phone Access | | Android; iOS; P2P |
| System Compatibility | | ONVIF(Profile S/T/G); RTSP; CGI; SDK |
| Web | | IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+ |
| Record Playback | | |
| Multi-channel Playback | | 16 |
| Record Mode | | Manual Recording; Alarm Recording; Schedule Recording |
| Storage Method | | Local HDD |
| Backup | | USB storage device, Network |
| Playback Function | | Play/Pause/Stop/Slow /Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom |
| Dual Stream Record | | Yes |
| Alarm | | |
| General Alarm | | Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR); Manual Alarm |
| Exceptions Alarm | | Video Loss; IP Conflict; MAC Conflict; Network Disconnected; No Disk; Illegal Access; Disk group space alert; Disk Full; Disk R/W Error; Recording Abnormal; Abnormal found in smart of disk; Abnormal temperature of the disk; Hot-spare Exception; Array Exception; Voltage Alarm(IPC); RTC Failure |
| Intelligent Analytics | | |
| AI by Camera | | Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Video Abnormal; Audio Abnormal; License Plate Recognition; On Duty Detection; Crowd Detection; Parking Guard; Safety Helmet Detection; Electric Bicycle Detection; People Counting; Link to Tracking; Smoke and Fire Detection; Environmental Temperature Measurement; Face Detection; Human Body Temperature Measurement; Smart Motion; Face Recognition; Human/Vehicle Classification |
| VCA Search | | Heatmap; Early-warning Search; Behavior Search; License Plate Search; Safety Helmet Search; Thermographic Retrieval; Duty Search; Electric Bicycle Retrieval; Face Search |
| Face Detection | | |
| Face Attributes | | Gender; Age; Glasses; Face Mask; Body Temp. |

| Face Recognition | |
|-------------------------|---|
| Face Picture Library | Up to 300 face libraries Up to 100000 base images |
| Face Picture Comparison | Face Picture Comparison (Cooperate with facial recognition IPC) |
| Storage | |
| HDD Capacity | Up to 10 TB capacity for each HDD |
| Disk Group | 4 Disk Group |
| RAID | JBOD, RAID0, RAID1, RAID5, RAID6, RAID10 |
| External Port | |
| USB | 1×USB2.0; 1×USB3.0 |
| HDMI | 1×HDMI(supports up to 4K resolution output) |
| VGA | 1×VGA |
| Network Interface | 2×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port |
| SATA | 4×SATA interface |
| RS232 | 1×RS232 |
| RS485 | 1×RS485 |
| Alarm I/O | 16-ch, TTL inputs, 3mA, 3.3VDC; 4-ch, relay outputs, 1A, 24VDC |
| General | |
| UI Language | English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian |
| Power Supply | DC12V 5A |
| Power Consumption | <15W(HDD not included, idling) |
| NetWeight | 3.3Kg |
| GrossWeight | 5.05Kg |
| Boundary Dimensions | 440(L)347(W)75(H)mm |
| Package Dimensions | 540(L)175(W)455(H)mm |
| Operating Temperature | -10°C~+55°C (+14°F~+131°F) |
| Operating Humidity | 10%~90%RH (non-condensing) |
| Storage Temperature | -20°C~+60°C (-4°F~+140°F) |
| Package Kit | Network Video Recorder; Screw Pack; Mouse; Power Adapter; European Standard Power Cord; 2×Ear Plate; 4×SATA Hard Disk Data Cable; 2×SATA Power Cord |
| Certification | CE, FCC, BIS & RoHS |

DIMENSIONS



ORDERING INFORMATION

AL-NVR5040-4D-R

40CH ENTERPRISE 4SATA RAID NVR



*Product specifications and availability are subject to change without notice.

