

Data Sheet

AL-NVR5160-24DRAIDHS

160CH 16MP  
24SATA RAID HOTSWAP NVR

- S+265/H.265/H.264 video formats
- Connectable to the third-party network cameras
- Up to 160 IP cameras can be connected
- Live view and playback Up to 16MP resolution
- 16 SATA interfaces, up to 24TB for each HDD
- Hot Swapble HDDs
- S+265 compression reduces storage space up to 75%
- 2 self-adaptive 10/100/1000Mbps network interfaces
- Centralized management of IP cameras
- Two-way audio communication
- VCA detection alarm is supported
- Web version6, Plug-in-free & supports all browsers
- Heatmap, AutoTracking & On duty detection
- Smart search for playback area



## 4K NETWORK VIDEO RECORDER

The Alcon AL-NVR5160-24DRAIDHS NVR is for the Smarter generation. It is a Smart Enterprise NVR which supports up to 160ch 4K IP camera input and recording. It Supports Smart Recording, Smart Search and Smart Plug and Play. 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



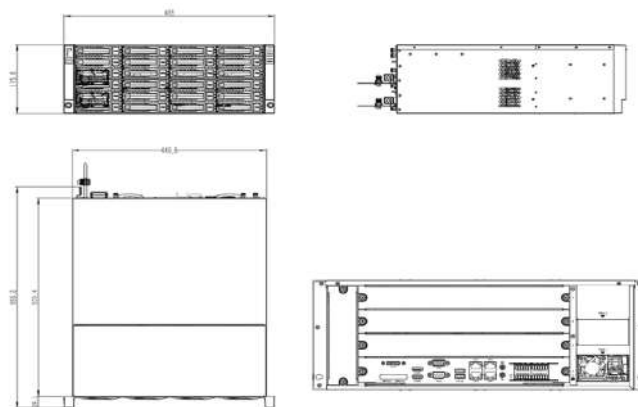
Apartment

**SPECIFICATION**

Video and Audio		AL-NVR5160-24DRAIDHS
Access Channel	160	
Incoming Bandwidth	800Mbps	
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)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×18, 1080P(30fps)×28, 720P(30fps)×56, 4CIF(30fps)×80	
Playback Decoding Capability	16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×6, 6MP(30fps)×8, 5MP(30fps)×9, 4MP(30fps)×12, 3MP(30fps)×16, 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: HDMI1/VGA 1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80 HDMI2: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80	
Audio Input	1-ch, 3.5mm	
Audio Output	1-ch, 3.5mm	
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, Netw ork	
Playback Function	Play/Pause/Stop/Slow /Speed/Backw ards 30s/Forw ards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom	
Alarm		
General Alarm	Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR); Manual Alarm	
Exceptions Alarm	Video Loss; IP Conflict; MAC Conflict; Netw ork 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	Tripw ire; Double Tripw ire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Video Abnormal; Audio Abnormal; License Plate Recognition; On Duty Detection; Crow d 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-w arning 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 w ith facial recognition IPC)	

Storage	
HDD Capacity	Up to 24 TB capacity for each HDD
Disk Group	16 Disk Group
RAID	JBOD, RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60
Hot Swapping	Yes
External Port	
eSATA	1×eSATA
USB	2×USB2.0; 1×USB3.0
HDMI	2×HDMI(supports up to 4K resolution output)
VGA	1×VGA
Network Interface	4×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
SATA	24×SATA interface
RS232	1×RS232
RS485	2×RS485
Alarm I/O	16-ch, TTL inputs, 3mA, 3.3VDC; 8-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	100~240V AC
Power Consumption	<45W(HDD not included, idling)
NetWeight	15.2Kg
GrossWeight	20Kg
Boundary Dimensions	530(L)484.5(W)174.5(H)mm
Package Dimensions	780(L)710(W)330(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; European Standard Power Cord
Certification	CE, FCC, BIS & RoHS

## DIMENSIONS



## ORDERING INFORMATION

AL-NVR5160-24DRAIDHS

160CH INTELLIGENT 16MP 24SATA RAID HOTSWAP NVR



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

