

Data Sheet

AL-NVR5020-1D

20CH SMART NETWORK VIDEO RECORDER

1 SATA 20CH 4K NVR

- Up to 20-ch Input
- S+265/H.265/H.264 video formats
- Support up to 8MP resolution
- ONVIF (PROFILE S/T/G), SDK, P2P
- Bandwidth:160Mbps
- 1 SATA interface for 1 HDDs
- Up to 10TB for each HDD
- HDMI andVGA simultaneous output
- Video output at up to 4K (3840×2160) resolution
- VCA: Tripwire;Double Tripwire;Perimeter;
Object Abandon;Object Missing;Loiter;Running;
Parking;Lens Dignose;Scene Switch Dignose;
Signal Abnormal Detection;Signal Loss Detection;
On Duty Detection;Crowd Detection;
Human/Vehicle Classification;
People Counting;Face Detection



FACE
DETECTION



TRIPWIRE



DOUBLE
TRIPWIRE



OBJECT
ABANDON



OBJECT
LOST



HEAT
MAP



CROWD



MAN &
VEHICLE
SEPARATION



ON DUTY
DETECTION



PARKING



LOITERING



MOTION
DETECTION



PERIMETER



EARLY
WARNING

20CH NETWORK VIDEO RECORDER

The Alcon AL-NVR5020-1D NVR is for the Smarter generation. It is a Smart NVR which supports up to 20CH 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 Support Early Warning, Heatmap & Auto Tracking 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.

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



School/ College



Office



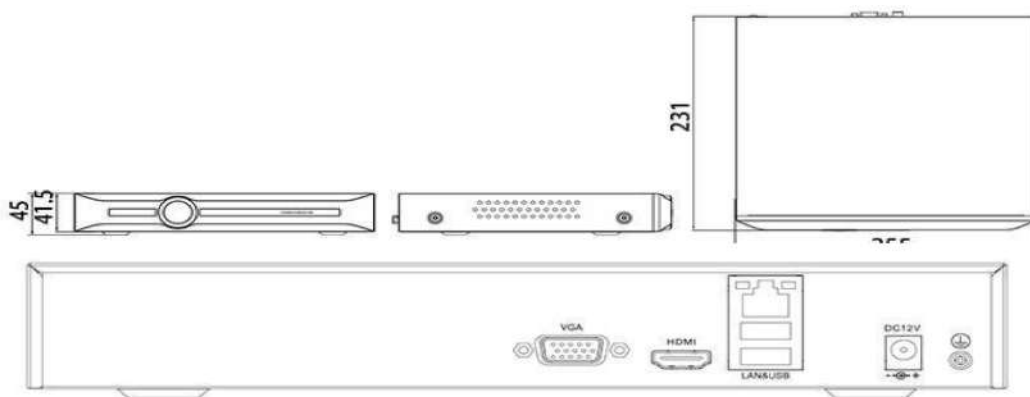
Apartment

SPECIFICATION

Video and Audio		AL-NVR5020-1D
Access Channel		20
Incoming Bandwidth		80Mbps
Outgoing Bandwidth		80Mbps
Resolution		8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Preview Decoding Capability		8MP(30fps)×1, 6MP(30fps)×1, 5MP(30fps)×1, 4MP(30fps)×2, 3MP(30fps)×2, 1080P(30fps)×4, 720P(30fps)×8, 4CIF(30fps)×20; *: The length or width of camera resolution (each track) cannot exceed 4096 pixels
Playback Decoding Capability		8MP(30fps)×1, 6MP(30fps)×1, 5MP(30fps)×1, 4MP(30fps)×2, 3MP(30fps)×2, 1080P(30fps)×4, 720P(30fps)×8, 4CIF(30fps)×16
Third-party Camera Access		ONVIF; RTSP
HDMI Output		HDMI: 1024×768(60Hz), (720P)1280×720(50Hz/60Hz), 1280×800(60Hz), 1440×900(60Hz), (1080P)1920×1080(50Hz/60Hz), (2K)2560×1440(30Hz), (4K)3840×2160(30Hz)
VGA Output		VGA: 1024×768(60Hz), (720P)1280×720(50Hz/60Hz), 1280×800(60Hz), 1440×900(60Hz), (1080P)1920×1080(50Hz/60Hz)
Multi-screen Display		Simultaneous Output: VGA: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/20C/20D/25 HDMI: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/20C/20D/25
Audio Output		1-ch, RCA (Linear, 1 KΩ)
Compression		
Video		S+265; H.265; S+264; H.264
Audio		G711A; G711U; AAC; ADPCM_DIV4
Stream Type		Video; Video & Audio
Network		
Network Protocol		802.1X; ARP; DDNS; DHCP; DNS; Easy DDNS; FTP; HTTP; HTTPS; ICMP; IGMP; IPv4; IPv6; Multicast; NFS; NTP; PPPoE; RTCP; RTP; RTSP; SMB/CIFS; SMTP; SNMP; 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
Alarm		
General Alarm		Motion Detection; Mask Alarm; Alarm Input(IPC)
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; Voltage Alarm(IPC); RTC Failure
Intelligent Analytics		
AI by Camera		Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Video Abnormal; Audio Abnormal; On Duty Detection; Crowd Detection; People Counting; Face Detection; Smart Motion; Human/Vehicle Classification
VCA Search		Early-warning Search; Behavior Search; Face Search
Face Detection		
Face Attributes		Gender; Age

Storage	
HDD Capacity	Up to 10 TB capacity for each HDD
Disk Group	1 Disk Group
External Port	
USB	2×USB2.0
HDMI	1×HDMI(supports up to 4K resolution output)
VGA	1×VGA
Network Interface	1×RJ-45, 10/100 Mbps self-adaptive Ethernet port
SATA	1×SATA interface
General	
UI Language	English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew ; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian
Power Supply	DC12V 3.3A
Power Consumption	<10W(HDD not included, idling)
NetWeight	0.8 kg
GrossWeight	1.45 kg
Boundary Dimensions	255(L)231(W)45(H)mm
Package Dimensions	385(L)80(W)280(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
Certification	CE, FCC, BIS & RoHS

DIMENSIONS



ORDERING INFORMATION

AL-NVR5020-1D

20CH Smart 4K NVR



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

