Smart Enterprise NVR

AL-NVR5040-4D-R

ALCON™ LINK
BE SMART, BE SECURE

S+265 40CH 4K 4SATA RAID NVR

- 40-ch input up to 4K
- Smart Compression S+265/H.265/H.264
- 4K Recording resolution
- Incoming 400Mbps; Outgoing 400Mbps
- ONVIF (PROFILE S/T/G), SDK, P2P
- Up to 10TB for each HDD
- JBOD, RAID0/1/5/6/10
- 1-ch, 3.5mm & 1×RCA
- 2xRJ45 self-adaptive 10/100/1000 Mbps
- 1xUSB 2.0, 1xUSB 3.0
- Early Warning/Face Detection/Heatmap/Auto Tracking

TRIPWIRE

PARKING

OBJECT ABANDON

OBJECT LOST

CROWD

PEOPLE COUNTING

LOITERING

MOTION DETECTION

PERIMETER

VIDEO ABNORMAL DETECTION

ON DUTY DETECTION

360°
AUTO TRACKING

4K 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 4K 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.
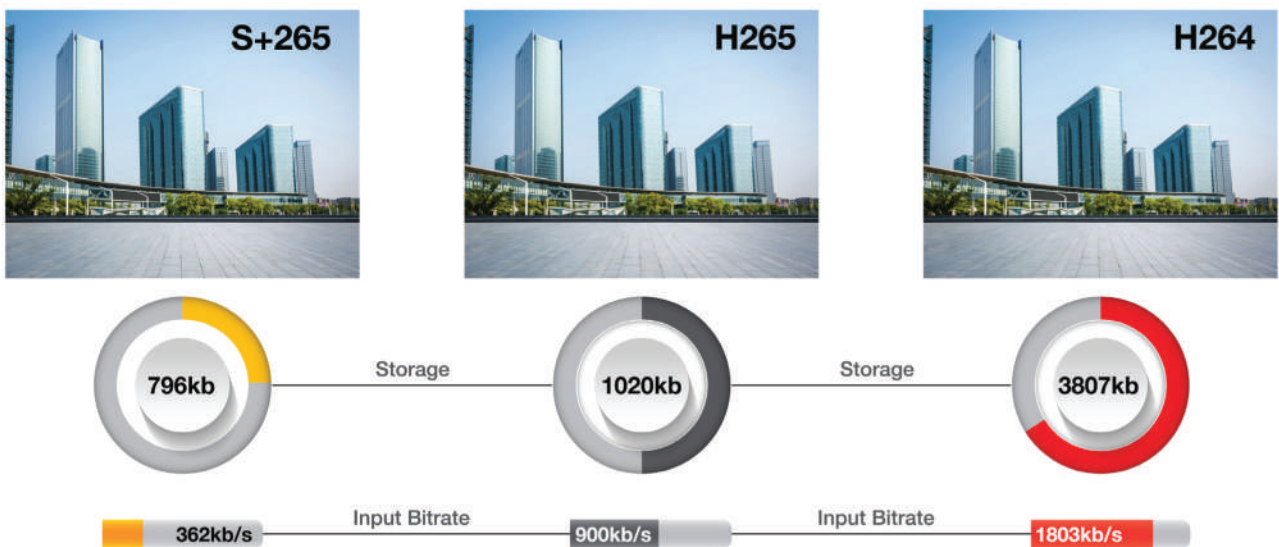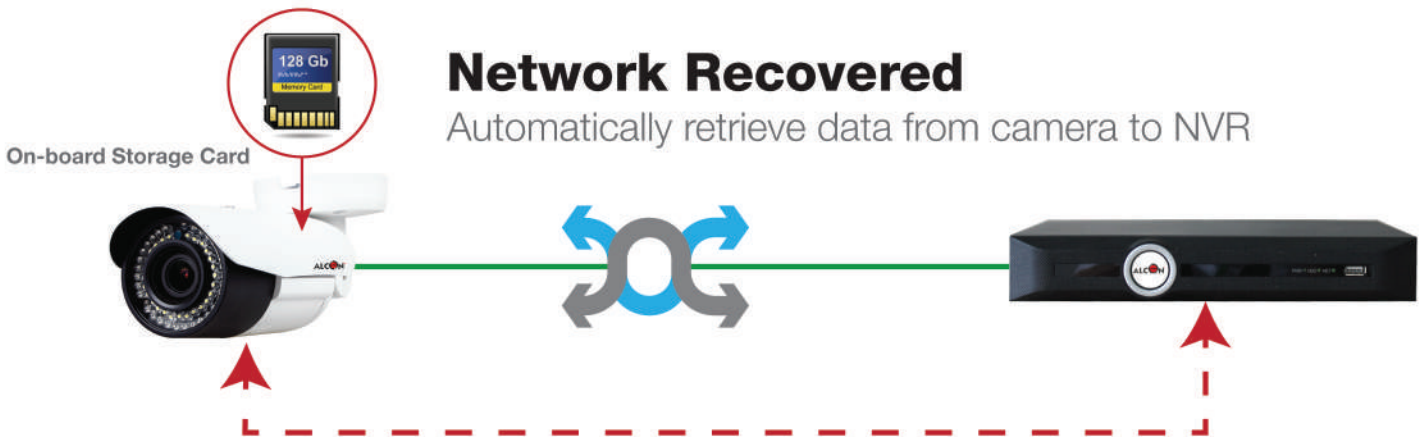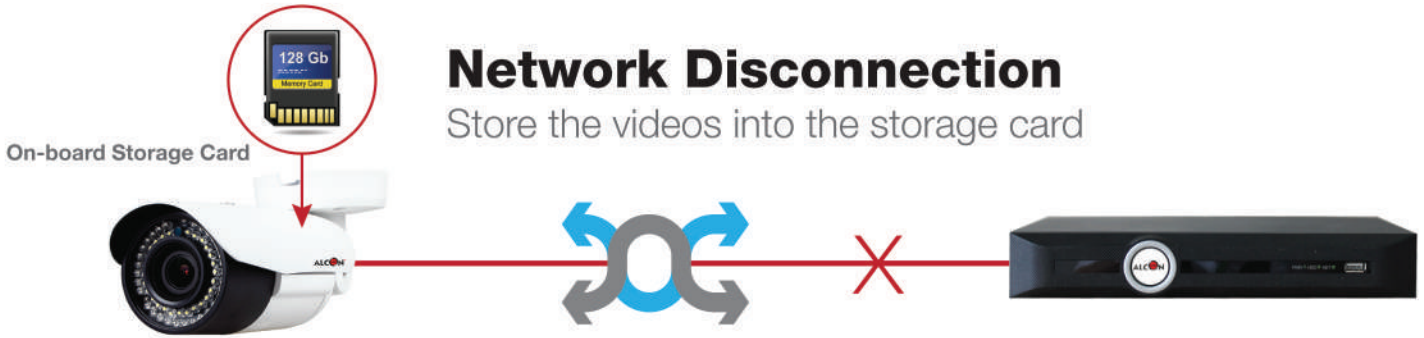
SMART RECORDING

Less frame

Smaller Storage Space

SMART ANALYSIS

BANDWIDTH AND DISK SPACE

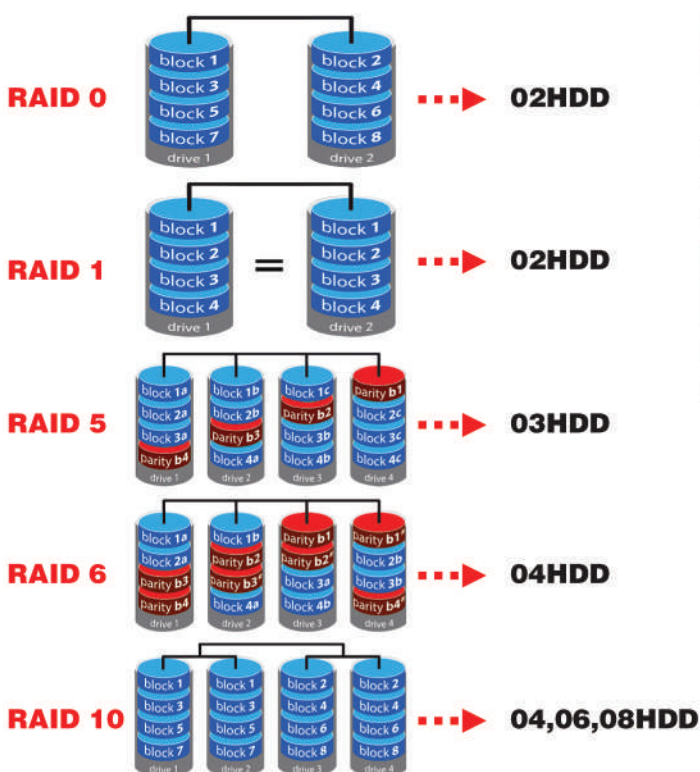| S+265	H265	H264
796kb	1020kb	3807kb
Storage	Storage	
362kb/s	900kb/s	1803kb/s
Input Bitrate	Input Bitrate	

S+265 can save approximate 50% bitrate than H.265 technology, saves 70%-80% bandwidth compared with H.264

Network Disconnection
Store the videos into the storage card

128 Gb
Memory Card

On-board Storage Card

Network Recovered
Automatically retrieve data from camera to NVR

128 Gb
Memory Card

On-board Storage Card

ANR FEATURES

NVRs (Network Video Recorders) with the ANR (Automatic Network Replenishment) function can automatically store video data on the IPC (Internet Protocol Camera) storage card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

RAID 0

block 1
block 3
block 5
block 7
drive 1

block 2
block 4
block 6
block 8
drive 2

···▶ **02HDD**

RAID 1

block 1
block 2
block 3
block 4
drive 1

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block 1
block 2
block 3
block 4
drive 2

···▶ **02HDD**

RAID 5

block 1a
block 2a
block 3a
parity b4
drive 1

block 1b
block 2b
parity b3
block 4a
drive 2

block 1c
parity b2
block 3b
block 4b
drive 3

parity b1
block 2c
block 3c
block 4c
drive 4

···▶ **03HDD**

RAID 6

block 1a
block 2a
parity b3
parity b4
drive 1

block 1b
parity b2
parity b3'
block 4a
drive 2

parity b1
parity b2'
block 3a
block 4b
drive 3

parity b1'
block 2b
block 3b
parity b4'
drive 4

···▶ **04HDD**

RAID 10

block 1
block 3
block 5
block 7
drive 1

block 1
block 3
block 5
block 7
drive 2

block 2
block 4
block 6
block 8
drive 3

block 2
block 4
block 6
block 8
drive 4

···▶ **04,06,08HDD**
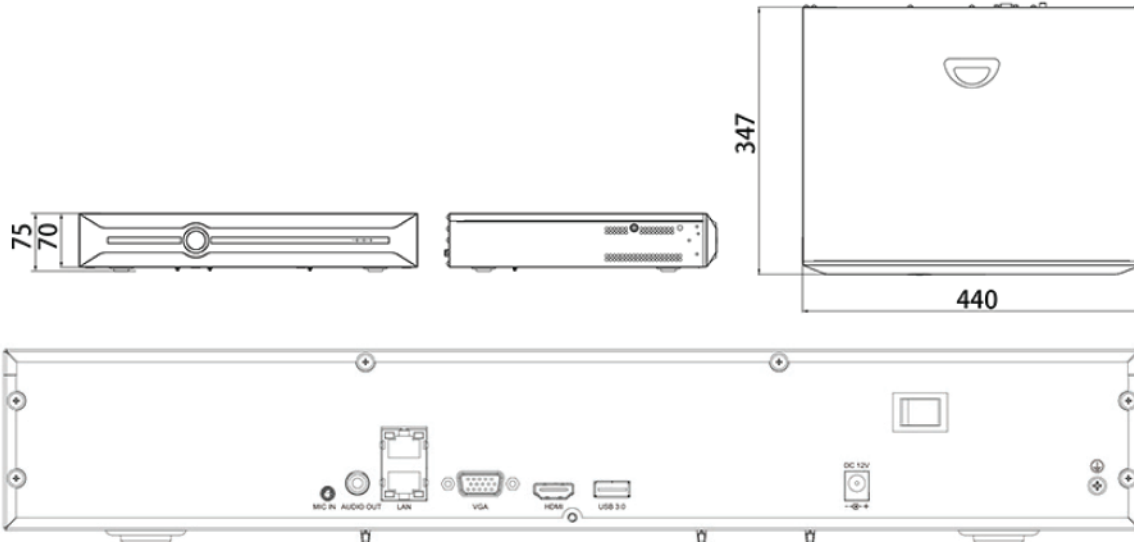
RAID (REDUNDANT ARRAY OF INDEPENDENT DISKS)

Originally Redundant Array of Inexpensive Disks) is a data storage virtualization technology that combines multiple physical disk drive components into one or more logical units for the purposes of data redundancy, performance improvement, or both. Alcon premium series RAID enabled NVRs are coming with 6 different RAID levels JBOD,RAID0,RAID1,RAID5,RAID6,RAID10 (>0°C, Each Raid Group Supports up to 100Mbps Input). JBOD(Just a Bunch Of Disks) means that your data is on single, stand-alone hard drives. If a one of your JBOD disks fails, the data on that disk is probably lost.

SPECIFICATION

MODEL	AL-NVR5040-4D-R
INPUT	
Video Input	40-ch
Max Resolution	12MP
Two-way Audio Input	1-ch, 3.5mm
Bandwidth	Incoming 400Mbps; Outgoing 400Mbps
OUTPUT	
HDMI/VGA Output	HDMI 1-ch, 3840×2160, 2560×1600, 2560×1440, 1920×1080, 1280×720, 800×600, 1024×768, 1366×768, 1440×900, 1280×800
	VGA 1-ch, 1920×1080, 1280×720, 800×600, 1024×768, 1366×768, 1440×900, 1280×800
Screen Split	1/3/4/6/8/9/10/13/16/20/25/36/40/64
Audio Output	1×RCA
DECODING	
Decoding Format	S+265/H.265/H.264
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UX-GA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Preview Capability	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P, 40×4CIF
Synchronous Playback	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 16×720P
Records Encryption	Yes
HARD DISK	
SATA	4 SATA interfaces for 4 HDDs
Capacity	Up to 10TB for each HDD
eSATA Interface	N/A
Array Type	JBOD, RAID0/1/5/6/10
EXTERNAL INTERFACE	
Network Interface	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
USB Interface	1xUSB 2.0, 1xUSB 3.0
Serial Interface	N/A
Alarm In/Out	N/A

VIDEO ANALYTICS	
VCA	Tripwire/Double Tripwire/Perimeter/ Object Abandon/Object Lost/Running /On Duty Detection/Loitering/Parking/ Early Warning/ Face Detection/ Compatible With Face Recognition Camera/Heatmap/ Auto Tracking
NETWORK	
Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, IGMP, QoS, IPV4, IPV6, Multicast, ARP, UDP, SNMP, SSL, Telnet, RTMP, NFS
System Compatibility	ONVIF (PROFILE S/T/G), SDK, P2P
Client App	Alcon Smart Surveillance Express(PC Client) & EasyLive(Mobile Client)
ANR	Yes
Redundancy	N+M
GENERAL	
Web Version	Web6
Language	Simple Chinese, Traditional Chinese, English, Spanish, Korean, Italian, Turkish, Russian, Thai, French, Polish, Dutch, Hebraism, Arabic
Operating Conditions	-10°C ~55°C, 10%~90% RH
Power Supply	100~240V AC, 50~60 Hz
Consumption (without HDD)	≤25W (without HDD)
Chassis	1.5U
Dimensions	75×347×440mm, (2.95×13.66×17.32 inch)
Weight (without HDD)	3.35Kg (7.38lb) or 3.35Kg (7.38lb)
Certification	CE & FCC

DIMENSIONS

ORDERING INFORMATION

AL-NVR5040-4D-R	S+265 40CH 4K 4SATA RAID NVR