AL-NVR5160-24DRAIDHS

ALCON™
BE SMART, BE SECURE

S+265 160CH 24SATA HOT SWAP NVR

- Up to 12MP Resolution Recording
- Bandwidth in/out 1280Mbps/640Mbps
- JBOD,RAID0,RAID1,RAID5,RAID6,RAID10, RAID50, RAID60
- HDD Quota and Group Management
- 4X 100/1000Mbps Self-adaptive Ethernet Interfaces
- Support 160-ch Intelligent Analysis Process
- Fisheye Connection & Fisheye Dewarping
- Smart Search&Recording, Plug&Play
- Support ANR Function, Max Resolution 4K
- Support N+M Hot Standby Function
- 2x HDMI, 1x VGA, Different Video Source
- 24 SATA Interface. Alarm I/O 16/6, Audio I/O 1/1 4x USB,2x RS-485, 1x RS-232
- BIS, CE & FCC

TRIPWIRE DOUBLE TRIPWIRE OBJECT ABANDON OBJECT LOST

EARLY WARNING PARKING LOITERING MOTION DETECTION

CROWD FACE DETECTION PEOPLE COUNTING PERIMETER

AUDIO ABNORMAL DETECTION VIDEO ABNORMAL DETECTION ON DUTY DETECTION AUTO TRACKING
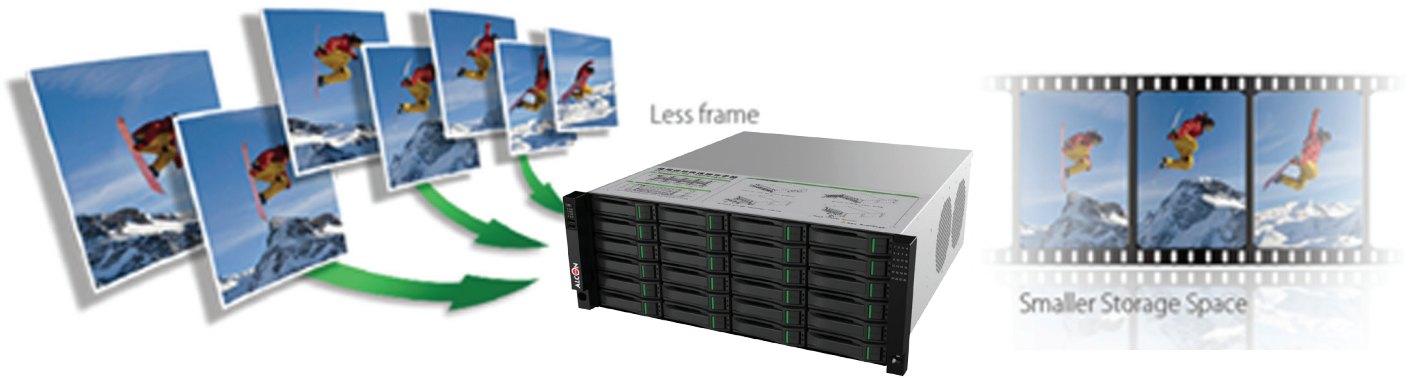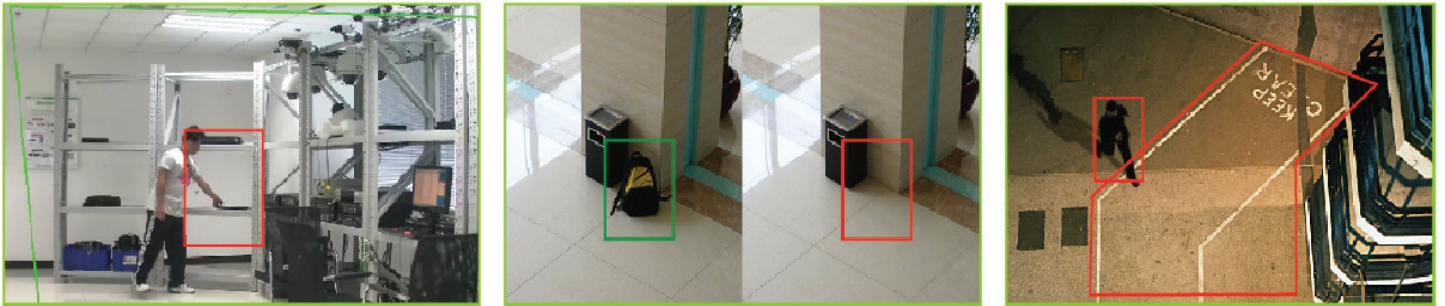
RAID Ready

ALCON
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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.
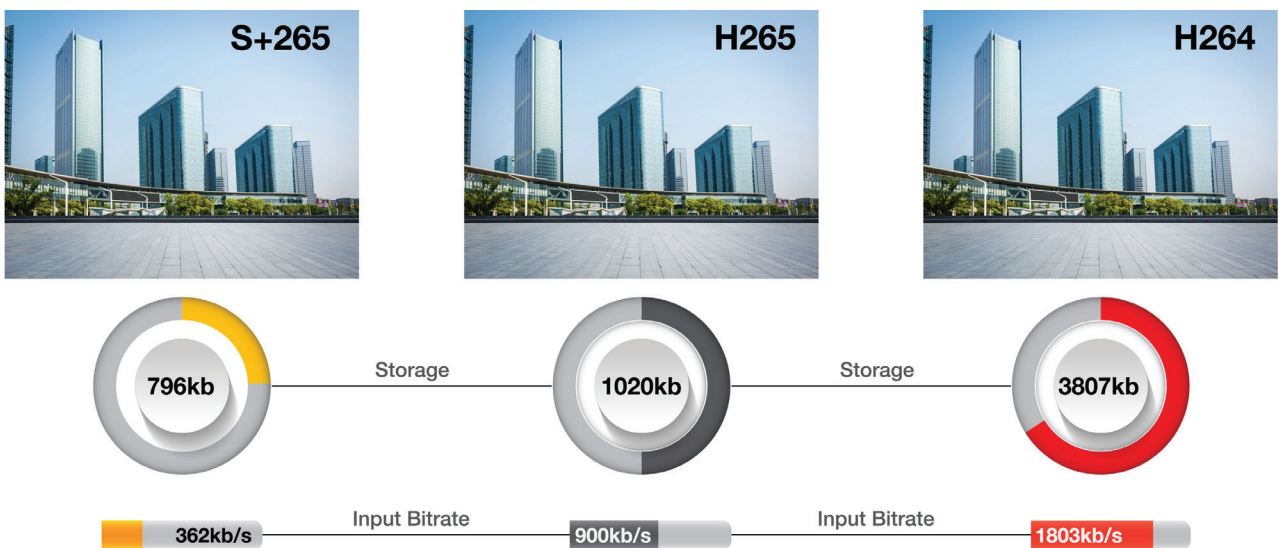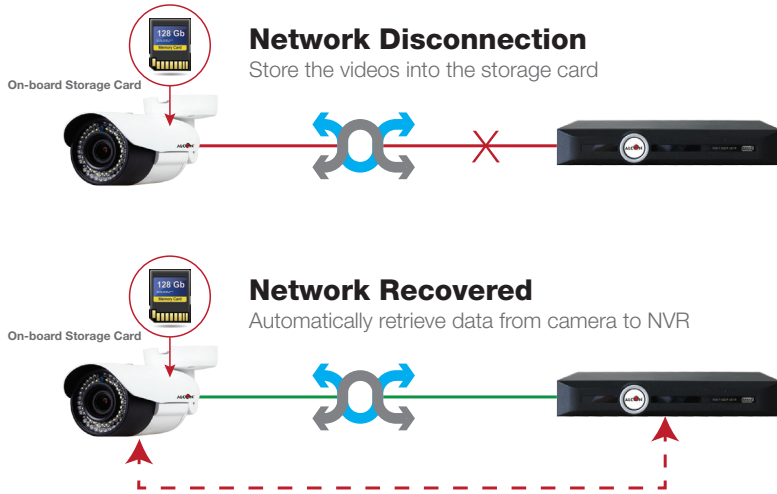
SMART RECORDING

Less frame

Smaller Storage Space

SMART ANALYSIS

BANDWIDTH AND DISK SPACE

S+265   H265   H264

796kb	Storage — 1020kb	Storage — 3807kb
362kb/s	Input Bitrate — 900kb/s	Input Bitrate — 1803kb/s

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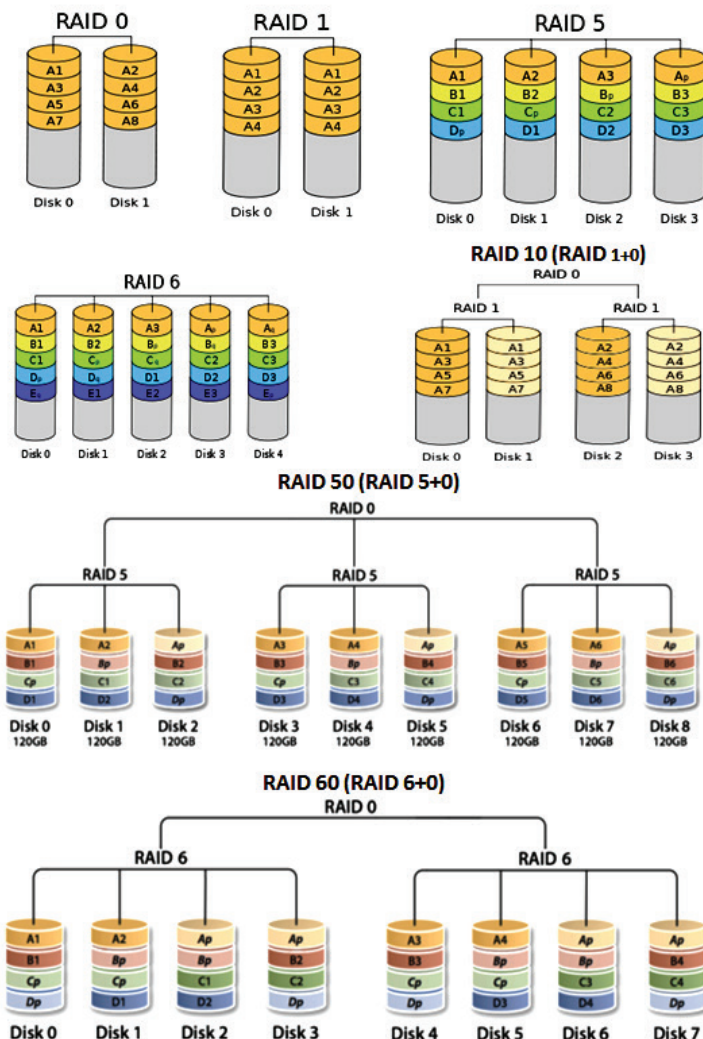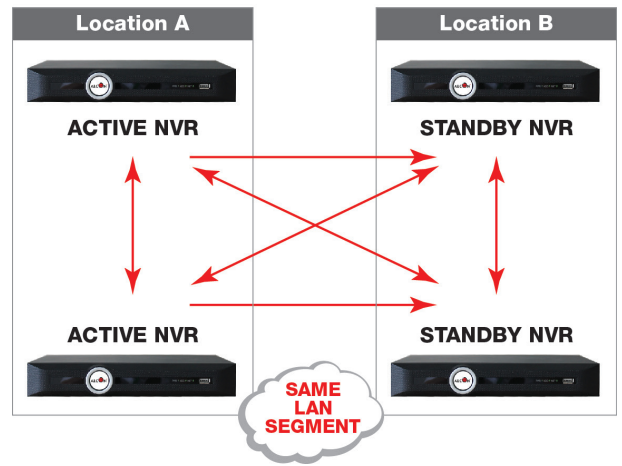
ANR FEATURES

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.

Network Disconnection
Store the videos into the storage card

On-board Storage Card

128 Gb

Network Recovered
Automatically retrieve data from camera to NVR

On-board Storage Card

128 Gb

HOTSTANDBY N+M

N+M — In cases where a single NVR is working as standby of multiple active NVRs, having only one dedicated failover node might not offer sufficient redundancy. In such cases, more than one (M) standby NVRs are included and available. The number of standby NVRs is a tradeoff between cost and reliability requirements

CONNECTED CAMERAS

Location A	Location B
ACTIVE NVR	**STANDBY NVR**
ACTIVE NVR	**STANDBY NVR**

SAME LAN SEGMENT

RAID 0 — Disk 0, Disk 1

RAID 1 — Disk 0, Disk 1

RAID 5 — Disk 0, Disk 1, Disk 2, Disk 3

RAID 6 — Disk 0, Disk 1, Disk 2, Disk 3, Disk 4

RAID 10 (RAID 1+0) — Disk 0, Disk 1, Disk 2, Disk 3

RAID 50 (RAID 5+0) — Disk 0 120GB, Disk 1 120GB, Disk 2 120GB, Disk 3 120GB, Disk 4 120GB, Disk 5 120GB, Disk 6 120GB, Disk 7 120GB, Disk 8 120GB

RAID 60 (RAID 6+0) — Disk 0, Disk 1, Disk 2, Disk 3, Disk 4, Disk 5, Disk 6, Disk 7

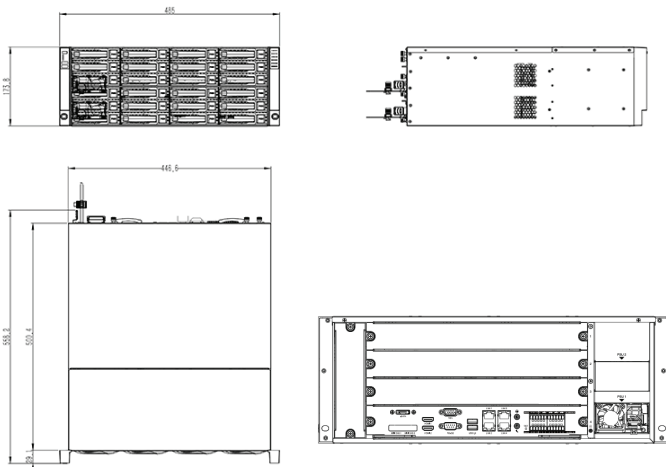## RAID (REDUNDANT ARRAY OF INDEPENDENT DISKS)

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, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID 50, RAID 60 (>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.
- **RAID 0** – Striping it can perform higher than the single-disk.
- **RAID 1** – Mirrored pair contains two disks.
- **RAID 5** – Striping with parity **RAID 5** requires at least three disks.
- **RAID 6** – Striping with double parity it requires minimum four disks.
- **RAID 10** – Combining mirroring and striping, it requires a minimum of four drives.
- **RAID 50** – **RAID 50**, also called **RAID 5+0**, combines the straight block-level striping of **RAID 0** with the distributed parity of **RAID 5**. As a **RAID 0** array striped across **RAID 5** elements, minimal **RAID 50** configuration requires six drives.
- **RAID 60** – **RAID 60**, also called **RAID 6+0**, combines the straight block-level striping of **RAID 0** with the distributed double parity of **RAID 6**, resulting in a **RAID 0** array striped across **RAID 6** elements. It requires at least eight disks.

SPECIFICATION

MODEL	AL-NVR5160-24DRAIDHS
VIDEO/AUDIO INPUT	
Video Input	160-ch
Audio Input	1-ch, 3.5mm
NETWORK	
Bandwidth	Incoming 1280Mbps; Outgoing 640Mbps
Mobile Software	P2P&DDNS for IOS&Android
Internet Protocol	TCP/UDP/HTTP/MULTICAST/UPnP/DHCP/PPPoE/DDNS/NFS/FTP/NTP/HTTPS/RTSP/SMTP/HTTPS/SADP/SNMP
Email	Activated by Alarm
ANR	Y, Auto download video from camera SD card, Which was stored when disconnnection (Only Support Alcon ANR IP Camera)
Advanced	Remaining Bandwidth Display, Flow Monitor, Capture Package
VIDEO/AUDIO OUTPUT	
HDMI Output	2-ch Resolution:4096*2160, 3840×2160, 2560×1600, 1600×1200, 3840×2160,2560×1600,2560×1440, 1920×1080,1280×720, 800×600,1024×768,1366×768,1440×900,1280×800
VGA Output	1-ch Resolution: 1920×1080, 1600×1200, 1280x1024, 1280×720, 800×600,1024×768, 1366×768, 1440×900, 1280×800 Adjustable Output mode, Self-adaptive Resolution
I-Frame Record	Y, Only Record Key Frame to Lower Frame Rate
Recording Resolution	12MP/4K(3840*2160,3264*2448,3296*2472)6MP(2752*2208,3008*2008,2408*2008)/5MP(2560*1920,2592*1944,2592*1920,2528*2128/4MP(2560*1440,2592*1520)/3MP(2048*1536)/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Audio Output	1-ch 3.5mm
Synchronous Playback	16-ch 4CIF/16-ch 720P/16-ch 1080P/5-ch 4K
Fisheye	Fisheye Connection & Fisheye Dewarping
DECODING	
Live View/Playback	12MP/4K/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Capability	5-ch 4K/20-ch 1080P/40-ch 720P/80-ch 4CIF
Display Split	1/3/4/6/8/9/10/13/16/20/25/32/36/40/64
E-Zoom	Y

HARD DISK	
SATA	24 SATA for 24 HDDs (Hot Swap)
eSATA	Y, Only for Backup
Capacity	Up to 10 TB Capacity for Each HDD
NTFS Files System	Y
HDD Management	Group and Quota,Customized Recording Days
RAID	
RAID Mode	JBOD,RAID0,RAID1,RAID5,RAID6,RAID10, RAID50, RAID60
Hot Backup Disk	Overall and Raid Hot Backup Disk
RAID Management	One-key Configuration, and Support Manual and Auto Rebuild
Redundant Recording	Y, Support 200Mbps Input
EXTERNAL INTERFACE	
Network Interface	4 100/1000Mbps Self-adaptive Ethernet Interfaces
Serial Interface	2 x RS-485, 1 x RS-232
USB Interface	2x USB3.0, 2x USB2.0
Alarm In/Out	16/6
ADVANCE	
NAS	NFS Protocol, Support Manual Backup Only
Plug and Play	Y, Only for Alcon Cameras
Image Flip	Y, Only for Alcon Cameras
Hot Standby	N+M
Corridor Mode	Y, 16:9 to 9:16, Only for Alcon Cameras
Video Analytics(VCA)	All VCA with IPC: Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Early Warning/Crowd/Face Detection/People Counting/Audio Abnormal Detection/Video Abnormal Detection/On duty Detection/intelligenct tracking/Heat map
Smart Search	Quickly Search Target Videos according to Channel No., Records Type, Records Time, File Type and VCA(Only for Alcon Cameras)
Trigger Recording	Manual/Timing/Motion Detection/Port Alarm/VCA/Video Occlusion
Smart Recording	Set Different Recording Bite Rate for Different Time
Alarm Recording	Pre Alarm Default 10s (5/10/15/60s Optional) , Post Alarm Default 10s (10/15/30/60/600s Optional).
One Key Control	Intercom, Recording
Records Format	SDV, MP4
Records Encryption	Y
Records Tag	Y
Onvif	Onvif(Profile S)
GENERAL	
Language	English,Spanish,Korean,Italian,Turkish,Thai, Russian,Polish, French,Traditional Chinese, Simplified Chinese,Dutch, Hebrew(UI)
Power Supply	100 ~ 240V AC, 50 ~ 60Hz
Consumption (without HDD)	≤100W (without HDD)
Working Temperature	0°C~55°C
Working Humidity	10 % ~ 90 %
Chassis	4U
Dimensions	558.2x446.2x173.8 mm (21.98×17.57×6.84 inch)
Weight	17Kg (37.48lb)
Certification	BIS, CE, FCC

DIMENSIONS

ORDERING INFORMATION

AL-NVR5160-24DRAIDHS   160 Channel 24 SATA Hot Swapable NVR

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