



IndigoVision

NVR-AS 4000 RANGE



# Enterprise NVR-AS

Enterprise Recording. Intelligently Designed.

With double the performance of the nearest alternative, the IndigoVision Enterprise NVR-AS can record up to 200 cameras, has data throughput of 2 Gbps and up to 160TB usable storage. Guaranteed tamper free evidence, automatic failover and integrated backup. Available with Windows or Linux, the Enterprise NVR-AS can also integrate other security systems for complete alarm management and has recording support for multiple camera manufacturers.

## Key Features

COMPRESSION

- H.264
- H.264
- JPEG 2000
- MJPEG
- MPEG-4

- GUARANTEED 30fps
- AAC
- G.711

OTHER

- DNA
- Firewall
- Windows
- Linux

PHYSICAL

- 1U Height
- 2U Height
- 19" Rack
- Power
- Network

STORAGE

- RAID5
- RAID6
- SATA

## Product Codes

100 Channel	Windows	Linux
Enterprise NVR-AS RA6TB	980455	980555
Enterprise NVR-AS RA12TB	980456	980556
Enterprise NVR-AS RA24TB	980458	980558
200 Channel	Windows	Linux
Enterprise NVR-AS RA48TB	980480	980580
Enterprise NVR-AS RA100TB	980481	980581
Enterprise NVR-AS RA140TB	980482	980582

General Specification	100 Channel			200 Channel		
Form Factor	1U	1U	1U	2U	2U	2U
Disk Space (TB)	6	12	24	48	100	140
Recording Hard Drive Bays	4 of 4			8 of 12	12 of 14	16 of 18
Expandable to Disk Space (TB)	n/a			56, 64, 72, 80	110, 120	150, 160
Recording Hard Drive	3.5in SATA					
Operating System Hard Drive Bays	On recording hard drives			Dual redundant separate mirrored drives configured as RAID1		
RAID Controller	Hardware RAID Controller configured as RAID5			Hardware RAID Controller with Flash Backed Cache configured as RAID6		
Performance (Streams)	100 Recording plus simultaneous playback of 25 streams <sup>^</sup>			200 Recording plus simultaneous playback of 50 streams <sup>^</sup>		
Performance (Throughput)	128 Mbps in; 200 Mbps out; 328 Mbps total <sup>^</sup>			100/1000 Mbps Ethernet: 500 Mbps in; 200 Mbps out; 700 Mbps total <sup>^</sup> 10 Gbps Ethernet: 1.6 Gbps in; 400 Mbps out; 2.0 Gbps total <sup>^</sup>		
Network Interface	Dual Port Redundant 100/1000 BaseT RJ-45 Connections, configured as an 802.1ax LACP aggregated group			Dual Port Redundant 10GB DA/SFP+ and Dual Port Redundant 100/1000 BaseT RJ-45 Connections, configured as an 802.1ax LACP aggregated group		
Dimensions/Weight	19.57in (d) x 17.09in (w) x 1.69in (h) and 20.96lbs			729.76in (d) x 17.48in (w) x 3.44in (h) and 72.97lbs		
Electrical	250W, 100-240VAC, 50/60 Hz, Auto Switching, Single PSU, Secondary Dual-Redundant Hot Swap PSU not supported			2 x 750W, 100-240VAC, 50/60 Hz, Auto Switching, Dual-Redundant Hot Swap PSU		
Processor	Intel Xeon E3			2 x Intel Xeon Silver 4110		
Memory	8GB RAM DDR4			16GB RAM DDR4		

	Windows	Linux
Operating System	Windows Server® 2012 R2 for Embedded Systems Essentials Windows Server® 2016 for Embedded Systems Essentials	IndigoVision NVR Appliance Operating System
System Management	100 Channel - iDRAC8 Basic 200 Channel - iDRAC9 Express	
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage	
Network Security	Windows Server Firewall, Network Access Protection (NAP)	SSH, SFTP, Embedded Linux Firewall
Regulatory	EN 60950-1, IEC 60950-1, EN 55022, CISPR 22, EN 61000-3-2, EN 55024, IEC 61000-3-2 (Class D), EN 61000-3-3, IEC 61000-3-3, CISPR 24	
Housing	Mild Steel Chassis and Fascia	
Operating Temperature	50°F to 95°F	
Supplied Accessories	Rack Mount Kit (brackets, static rails and mounting hardware), removable lockable fascia, PDU power cord and USB restore media <sup>^^</sup>	
Onboard Diagnostics	Fault alarm notification within Control Center for RAID degradation, fans, redundant power supplies and redundant network faults. Additionally, embedded monitoring tools provide detailed fault diagnosis for RAID arrays, controllers, enclosures and temperature faults.	
IndigoVision Software Requirements	100 Channel - Control Center v13.2 or later 200 Channel - Control Center v13.2 or later	100 Channel - Control Center v13.2 or later 200 Channel - Control Center v15.2 or later

Control Center Licensed Features	
The availability of the following NVR features varies based on the Control Center software product the NVR is connected to**	
Licensing	IndigoVision NVR appliances do not need a separate license. Video from any connected camera or encoder to the system can be recorded
Video	Simultaneously record and playback full frame rate, full resolution video streams from any connected IndigoVision IP Camera or Encoder. Record and playback from other devices including ONVIF Profile S conformant cameras and encoders as well as devices integrated via Camera Gateway™
Audio	Recording and playback of AAC and G.711 audio*
Thumbnails	Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails
Alarms	Recording and logging of alarms and events
Bookmarks	Recording and logging of bookmarks in association with recordings
Integrated Data	Recording and logging of millions of data records from LPR, EPOS and other integrations
Analytics	Recording and playback of motion analysis data from cameras*
Redundancy and Failover	Full DNA support, sophisticated failover and mirroring strategies amongst multiple NVRs for increased resilience and redundancy
Digital Watermarking	Digital signing at point of recording and at export

\* Features may vary based on capabilities of camera model.

\*\* Please check the Control Center datasheets for more information.

<sup>^</sup> With or without Digital Watermarking enabled.

<sup>^^</sup> 12Bay Chassis has 12 Hard Drive Bays accessible from front of chassis.

14 Bay Chassis has 12 Hard Drive Bays accessible from front of chassis and 2 supported Internal Hard Drive Bays accessible from the top panel of chassis

18 Bay Chassis has 12 Hard Drive Bays accessible from front of chassis and 4 Internal Hard Drive Bays accessible from the top panel of chassis and 2 rear accessible Hard Drive Bays

<sup>^^^</sup> 18 Bay Chassis Rack Mount Kit includes sliding rail system with cable management. / 16 Bay Chassis Rack Mount Kit includes sliding rail system with cable management.

## Accessories

Accessories	Product Code
Enterprise NVR-AS 8TB SATA Hard Disk Caddy & Disk	110308
Direct Attach twinax cable kit with SFP+ connectors - 1m	110351
Direct Attach twinax cable kit with SFP+ connectors - 3m	110352
Direct Attach twinax cable kit with SFP+ connectors - 5m	110353
10GBASE-SR fibre optic SFP+ transceiver	110361
Sliding rack rails with cable management arm	110300