



IndigoVision®

a Motorola Solutions Company

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 192TB 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.265
- JPEG 2000
- MJPEG
- MPEG-4

- AAC
- G.711

OTHER

- DNA
- W
- Windows logo
- Geometric logo

PHYSICAL

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

STORAGE

- RAID5
- RAID6
- SATA

Product Codes

100 Channel	Windows	Linux
Enterprise NVR-AS 6TB	980483	980583
Enterprise NVR-AS 12TB	980484	980584
Enterprise NVR-AS 36TB	980485	980585
200 Channel	Windows	Linux
Enterprise NVR-AS 48TB	980480	980580
Enterprise NVR-AS 120TB	980486	980586
Enterprise NVR-AS 168TB	980487	980587

*Supported from Control Center v16.0 or later

Specification

General Specification	100 Channel			200 Channel		
Form Factor	1U	1U	1U	2U	2U	2U
Disk Space (TB)	6	12	36	48	120	168
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	132, 144	180, 192
Compatible Drives (TB)	N/A			8	12	
Performance (Streams)	100 Recording plus simultaneous playback of 50 streams			200 Recording plus simultaneous playback of 50 streams		
Performance (Throughput)	300 Mbps in; 100 Mbps out; 400 Mbps total [^]			Windows - 10 Gbps Ethernet: 1.6 Gbps in; 240 Mbps out; 1.84 Gbps total	Windows - 10 Gbps Ethernet: 2.0 Gbps in; 400 Mbps out; 2.4 Gbps total	
				Linux - 10 Gbps Ethernet: 1.28 Gbps in; 320 Mbps out; 1.6 Gbps total		
Processor	Intel Xeon E-2124 3.3GHz			2 x Intel Xeon Silver 4110		
Memory	8GB RAM DDR4			16GB RAM DDR4		
Dimensions/Weight	595mm (d) x 434 mm (w) x 42.8mm (h) and 12.2Kg			755.8mm (d) x 444mm (w) x 87.3mm (h) and 33.1Kg		
Supported Operating Systems	Windows - Windows Server® 2016 for Embedded Systems Essentials Linux - IndigoVision NVR Appliance Operating System					
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage					
Recording Hard Drive	3.5in SATA					
Operating System and Configuration 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		
Network Interface	Dual Port Redundant 100/1000 BaseT RJ-45 Connections, configured as switch independent group (Windows) / 802.1ax LACP redundant pair (Linux)			Dual Port Redundant 10GB DA/SFP+ and Dual Port Redundant 100/1000 BaseT RJ-45 Connections, configured switch independent group (Windows) / 802.1ax LACP aggregated group (Linux)		
Network Security	Windows - Windows Server Firewall, Network Access Protection (NAP) Linux - SSH, SFTP, Embedded Linux Firewall					
Security Features	Trusted Platform Module 2.0 FIPS UEFI Secure Boot (Windows) Hardware root of trust Disable USB ports			UEFI Secure Boot (Windows) Hardware root of trust Disable USB ports		
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					
Electrical	250W, 100-240VAC, 50/60 Hz, Auto Switching, Single PSU, Secondary Dual-Redundant Hot Swap PSU not supported			2 x 1100W, 100-240VAC, 50/60 Hz, Auto Switching, Dual-Redundant Hot Swap PSU		
Operating Temperature	10°C to 35°C					
System Management	iDRAC9 Basic			iDRAC9 Express		
Supplied Accessories	Rack Mount Kit, Removable Lockable Fascia, PDU power cord and USB Restore Media ^{^^^}			Rack Mount Kit ^{^^^}	Rack Mount Kit and Cable Management Arm ^{^^^}	
				Removable lockable fascia, PDU power cord and USB restore media		
Onboard Diagnostics	Fault alarm notification within Control Center for RAID degradation, fans, redundant power supplies, recording failure and redundant network faults. Additionally, embedded monitoring tools provide detailed fault diagnosis for RAID arrays, controllers, enclosures and temperature faults.					
IndigoVision Software Requirements	Windows - Control Center v16.0 or later Linux - Control Center v16.0 or later			Windows - Control Center v13.2 or later Linux - 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, G.711 and Opus 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					
Edge Storage Retrieval	SD card retrieval from ONVIF Profile G devices*					
NVR Footage Retrieval	Footage retrieval from IndigoVision NVRs					

* Features may vary based on capabilities of camera model. ** Please check the Control Center datasheets for more information.

^{^^} 12 Bay 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.

^{^^^} All NVR-AS 4000 1U Rack Mount Kit includes 2/4 post static rails, brackets and mounting hardware.

980480/980580 Rack Mounts Kit includes 2/4 post static rails, brackets and mounting hardware.

980486/980487/980586/980587 Rack Mounts Kit includes sliding rack rails, brackets, mounting hardware and cable management arm.

Accessories

Accessories	Product Code
Enterprise NVR-AS 8TB SATA Hard Disk Caddy & Disk	110308
Enterprise NVR-AS 4000 G3 2U 12TB SATA Hard Disk Caddy & Disk	110321
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