



# VideoEdge 1U Network Video Recorder



## Key Features

- 100 Mbps recording throughput
- Supports up to 32 IP cameras
- Embedded 16 port PoE switch for reduced installation time, hardware requirements, and support calls
- Supports up to 16 ports of 802.3af or 8 ports of 802.3at compliant power
- JBOD storage configuration up to 24TB
- Four front-accessible, enterprise-class hard drives
- Solid state OS drive for improved reliability
- Support for Virtual IO on select cameras

## A Solution That Protects Your Business and Helps it Grow

When you combine the powerful capabilities of victor with the intelligence of VideoEdge NVRs you reach new heights in video management with actionable insights to save time, money and lives. Save administrator resources with powerful features like person-based intelligent search, narrowing down search time from minutes to seconds and gain the upper hand against potential threats. Leveraging high-performance smart video searching, video intelligence, and case management along with an extensive feature set, users gain greater situational awareness.

## Reduce Installation Time and Cost

The 1U NVR is suited for small to medium sized locations where video storage is a priority. Equipped with 16 embedded PoE ports, the VideoEdge 1U is ideal for deployments that require simplified and lower cost installations. Scalable up to 24TB of storage in a small 1U form factor, the hardware provides the capability to meet your network growth requirements.

### Improve Incident Response and Safety with Intelligent Designs and AI Features

Once added to the system, powerful AI and intelligent video analytic features such as person-based intelligent search and area occupancy are combined and integrated with the victor/ VideoEdge solution to strengthen operational efficiency and effectiveness. By simply allocating a license to a camera, the system will immediately begin collecting behavioral metadata that can be leveraged for reporting key performance indicators (KPIs) and trigger real-time alarms. Detect suspicious objects and abnormal behavior to identify trends that help mitigate threats, and pinpoint exact location of alarms on maps to arm security teams with life-saving details. With the powerful, automated and forensic search capabilities powered by Tyco AI, victor/ VideoEdge users are able to save time when minutes matter.

Additional tools that help with both live streaming and forensic search include Smart Streaming and Smart Search. Smart Streaming reduces client hardware requirements while viewing more cameras simultaneously without increasing bandwidth usage. Smart Search finds specific video clips based on metadata from behaviors, analytics, and event details within a forensic region of interest. VideoEdge® TrickleStor provides cost-effective redundancy by storing video on select Illustra cameras when network connectivity to the NVR is lost. Finally, VideoEdge NVRs are all ONVIF Profile S conformant for increased camera compatibility.

### Ensure Reliability and Business Continuity with a Cybersecurity Program

VideoEdge NVRs have been designed to be resilient against cyber threats. This solution includes a security audit page that allows administrators to quickly determine if the proper levels of protection are applied. The VideoEdge NVRs adhere to the rigorous standards of the Johnson Controls Cyber Solutions Product Security Program. The holistic approach to cyber protection is aimed at providing peace of mind to our customers. Our security mindset begins at initial design concept and is supported through deployment, including a rapid incident response to meet the comprehensive and evolving cybersecurity environments.

## Hardware Specifications

Specification	Description
Camera Type	IP
Video Recording Throughput	100 Mbps <sup>1</sup>
Max # of Cameras	32 <sup>2</sup>
Operating System	VideoEdge OS built on openSUSE Linux
OS Drive	250GB mSATA
Network Interface	2 x GigE
Camera Interface	10/100 Mbps PoE (802.af), up to 8 x 10/100 Mbps PoE+ (802.at), 240W Total Power <sup>3</sup>
RAID Controller	Software RAID Control <sup>4</sup>
Video Storage	up to 24TB JBOD
Video Storage Drives	Up to 4
External Storage	iSCSI
USB Ports	Front: 1 x USB 2.0 Back: 4 x USB 2.0, 4 x USB 3.0
Power Supply	500W, 100~240VAC
Max BTU	1706

<sup>1</sup> 50Mbps with VideoEdge Client

<sup>2</sup> Stream parameters vary greatly - Refer to Tyco | American Dynamics Resource Estimator [www.americandynamics.net/Calculators/Tyco-American-Dynamics-Resources-Estimator.xlsx](https://www.americandynamics.net/Calculators/Tyco-American-Dynamics-Resources-Estimator.xlsx) and Storage Calculator <https://www.americandynamics.net/Calculators/ipconfig/index.html> to best determine server and storage.

<sup>3</sup> PoE+ is limited to 4 from ports 1-8 and 4 from ports 9-16, with remaining ports unconnected.

<sup>4</sup> When Software RAID Control is enabled Max Video Recording Throughput is 50Mbps and 25Mbps when VideoEdge Client is also used.

Monitor Interface	2 x Display Port, 1 x DVI-D
Max. Digital Monitors	1
Max Total Camera	32
VideoEdge Client	Yes
Dimensions (W x H x D)	16.93 x 1.74 x 15.35 in (4.3 x 0.44 x 3.90 cm)
Included Accessories	Rackmount Ears, Rackmount Rail Kit, USB Mouse and Keyboard
Regulatory <sup>5</sup>	Compliance Safety: UL Listed (US+Canada), CB certified multiple countries, (UL/IEC/EN60950-1) EMC: Class A emissions (FCC part 15; ICES-003; EN55032; CISPR22, EN61000-3-2, 3-3) Security immunity (EN50130-4) Environmental: External PSU Efficiency Level VI, RoHS (EN50581), EU Reach restrictions compliant. Declarable substance contents provided at time of sale.

<sup>5</sup> Information is qualified by a third-party manufacturer responsible for regulatory. For EU EMC compliance the product has not been assessed as a security product. For security critical applications additional measures may need to be taken to avoid functional degradation from electrical interference.



## Ordering Information

Model Numbers	Description
<b>VideoEdge 1U NVR</b>	
ADVER24N0NP16G	VideoEdge 1U NVR, 24 TB JBOD, 16 PoE ports, 2 NIC, supports up to 32 IP cameras
ADVER18N0NP16G	VideoEdge 1U NVR, 18 TB JBOD, 16 PoE ports, 2 NIC, supports up to 32 IP cameras
ADVER12N0NP16G	VideoEdge 1U NVR, 12 TB JBOD, 16 PoE ports, 2 NIC, supports up to 32 IP cameras
ADVER06N0NP16G	VideoEdge 1U NVR, 6 TB JBOD, 16 PoE ports, 2 NIC, supports up to 32 IP cameras
ADVER04N0NP16G	VideoEdge 1U NVR, 4 TB JBOD, 16 PoE ports, 2 NIC, supports up to 32 IP cameras
ADVER00N0NP16G	VideoEdge 1U NVR, 0 TB JBOD, 16 PoE ports, 2 NIC, supports up to 32 IP cameras
<b>VideoEdge 1U NVR Accessories</b>	
ADVER06TBTAD	VideoEdge HDD Kit, Compatible with 1U, 2U, and 3U NVR, 6 TB Hot Plug HDD Kit w/Tray
ADVER04TBTAD	VideoEdge HDD Kit, Compatible with 1U, 2U, and 3U NVR, 4 TB Hot Plug HDD Kit w/Tray
ADVE1URACKIT	VideoEdge 1U Rack Mount Kit <sup>6</sup>

<sup>6</sup> VideoEdge Rack Mount Kit included with VideoEdge 1U Rack Mount NVR

# Camera Connection Licenses

Model Numbers	Description
ADVEC01*	VideoEdge NVR Add-on 1 IP Cam license
ADVC-CENTLIC	victor Professional Central License Management for VideoEdge
ADVC-VECAM*	victor Professional Centrally Managed VideoEdge IP Camera Connection License - Single Camera Lic

\*Not required with Illustra Pro cameras

For analytic ordering information, see Video Intelligence, Facial Biometric and License Plate Recognition data sheets

Tyco American Dynamics victor VMS and VideoEdge Recorders are sold, serviced and supported by a network of Certified Installers. For specific information regarding Certification and Training requirements please consult your local sales representative.

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## Johnson Controls

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For additional information, please visit [www.americandynamics.net](http://www.americandynamics.net) or follow us on Facebook, Twitter, and LinkedIn.

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AD1116-DS-202104-R11-HS-EN