

# Nextiva mDVR

## Intelligent On-Board Recording for a Safer Transit Environment

Verint helps transit authorities protect passengers, assets, and staff with an array of intelligent DVRs designed specifically for bus and rail systems.

Nextiva™ mDVR™ mobile Digital Video Recorders deliver full-motion video from up to 12 analogue or digital cameras, with industry-leading system interoperability for outstanding business value.

Integration with on-board equipment, such as G-Force sensors, generates a more complete understanding of events and operations, and allows video to be captured, retained, and retrieved based on the information these systems provide.

The mDVR leverages existing network resources, with encoding technology that allows video to be transmitted over on-board Ethernet backbones. When used with Nextiva Transit Fleet Manager™, mDVR integration with industry-standard wireless solutions allows for live or scheduled offload of critical video data, while continuous on-board video storage helps ensure that critical images are available when needed.

Built for dependability, long life, and low maintenance, the mDVR is designed to withstand the temperature fluctuations and heavy vibration of mobile operations, and features an innovative, spring-cushioned, mobile disk housing to absorb shock and prevent disk damage. Automatic system health monitoring, camera tampering detection, and problem notification streamline management and promote more reliable and effective on-board video surveillance.

*Plus, mDVR is from Verint®, the leader in networked video security solutions worldwide.*



## The Nextiva mDVR Portfolio

Features and Capabilities	mDVR-6S For Buses and Light Rail	mDVR-12S For Buses and Light Rail	mDVR-12SX For Buses and Light Rail	mDVR-12R For Heavy Rail	mDVE For Heavy Rail
<b>Resolution:</b> 352H x 288V to 704H x 576V PAL (352H x 240V to 704H x 480V NTSC)	■	■	■	■	■
<b>Compression:</b> MPEG-4 based, SM4 codec	■	■	■	■	■
<b>Programmable Frame Rate:</b> • CIF, 180 fps PAL/NTSC • CIF, 360 fps PAL/NTSC	■	■	■	■	■
<b>Power Supply:</b> • 12-48V DC (unit consumption 75W max) • 24, 36 or 110V DC (unit consumption 75W max)	■	■	■	■	■
<b>Power Output:</b> • 1 x 12V DC max. 1.5 amps • 2 x 12V DC max. 1.5 amps (3A)	■	■	■	■	■
<b>Video Input</b> (each with motion detection capabilities)	6 BNC	12 BNC	12 BNC	12 BNC	6 BNC
<b>Video Output</b>	1 BNC	2 BNC	2 BNC	2 BNC	N/A
<b>Audio Input:</b> (-46 to -3dBV, 30 kohms)	2	2	2	2	N/A
<b>Contact Inputs:</b> (12V DC or 24V DC signal)	6	12	12	12	
<b>Relay Outputs</b> (SPDT, max. 48V DC, 500mA)	1	2	2	2	
<b>Hard Drive:</b> • 2.5" removable hard drive, 160GB maximum capacity • 3.5" removable hard drive, 750GB maximum capacity	■	■	■	■	N/A
<b>Interfaces:</b> • GPS interface • LED support • Ethernet 10/100Mbit	■	■	■	■	■
• IBIS interface • RS 422 • RS 232	■	■	■	■	■
<b>Ethernet Interfaces</b>	1	2	2	2	2
<b>Playback and Configuration Software:</b> Nextiva Transit Review and Nextiva Transit Config	■	■	■	■	■
<b>Operating Temperature</b> (tested at extended temp. of -25° to +70°): • In operation • In recording mode	-20° to +45°C -5° to +45°C	-20° to +45°C -5° to +45°C	-20° to +55°C -5° to +55°C	-20° to +45°C -5° to +45°C	-20° to +55°C -5° to +55°C
<b>Cooling</b>	Passive	Passive	Active	Passive	Passive
<b>Mounting</b>	Adapter	Adapter	Adapter	19" rack	19" rack
<b>Housing</b> (HxWxD), including mounting and connectors: • 350 x 64 x 299 mm (13.78 x 2.52 x 11.77 inches) without adapter • 375 x 80 x 299 mm (14.76 x 3.15 x 11.77 inches) without adapter • 483 x 133 x 259 mm (19.01 x 5.23 x 10.20 inches) without adapter	■	■	■	■	■
<b>Weight:</b> (Kg/Lb, including hard drive)	3.8/8.3	3.8/8.3	4.5/9.9	5.1/11.2	*
<b>EMC:*</b> • CE mark (2004/108/EC) • EN61000 • EN50121-3-2 (EN50155) • E-mark (2006/28/EC)	■	■	■	■	■
<b>Shock and Vibration:*</b> • MIL STD-810F 514 • EN61373 (EN50155)	■	■	■	■	■

Built on more than a decade of experience in  
Thousands of transit deployments ...  
Only the Nextiva mDVR lineup offers all this.

### A Complete, Contextual View of Events

- ❖ Full-motion video from up to 12 cameras per vehicle
- ❖ 2 audio channels
- ❖ Variable and event-dependent resolution (CIF, 2CIF, 4CIF) for each video input
- ❖ Event Manager software for managing all on-board events
- ❖ Collection of incident-related data: speed, location, turn signal, brake, etc.
- ❖ Intelligent and intuitive logical event and alarm configurator software for initiating recording, changing recording frame rate and resolution, and viewing video by event, date/time, station, or other related on-board data
- ❖ Easy-to-use, multi-language video review software with investigation management capabilities and event and alarm analysis using a timeline viewer

### Optimal Use of Video and Network Resources

- ❖ Dual streaming, so that video can be viewed at high resolution for optimal image clarity, but transmitted at lower resolution to preserve network bandwidth and storage
- ❖ Nextiva mDVE mobile Digital Video Encoder for transmitting encoded video over a train's existing Ethernet backbone
- ❖ Train Video Transmitter (TVT) that acts as a video matrix, sending analogue video via coaxial or twisted pair cable to an analogue monitor in the conductor's cabin
- ❖ Central and/or local video storage and review
- ❖ Internal storage up to 750GB removable
- ❖ Convenient video offload via removable hard drive, direct Ethernet connection, or wireless connection using Nextiva Transit Fleet Manager

### Reliability, Long Life, and Low Maintenance

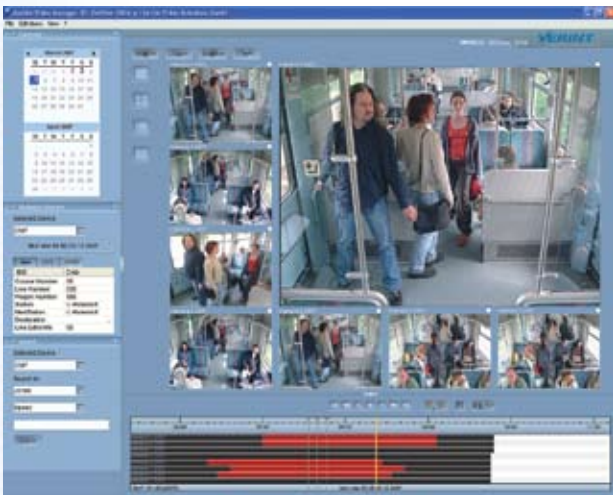
- ❖ Automatic system health checking and problem notification
- ❖ Fanless operation (except mDVR12-SX) for outstanding MTBF
- ❖ Durable, spring-cushioned housing to extend disk life in high-vibration environments
- ❖ Passive or active cooling to protect disk in extreme temperatures
- ❖ Automatic detection of camera tampering
- ❖ 2 Ethernet interfaces (except for mDVR-6S) for simultaneous wireless transmission and device maintenance



A spring-cushioned, mobile disk housing absorbs shock and prevents disk damage for long life and superior dependability.

## Superior Performance and Low Cost of Ownership

The mDVR is designed for dependability and low cost of ownership. Its embedded Linux operating platform is independent of third-party operating systems, for more secure and reliable operation. IBIS, TCP/IP, and other interfaces enable the mDVR to communicate easily with other on-board equipment without expensive customisation. The mDVR also features an easy-to-use software application for configuration and integration. For enhanced manageability, Nextiva Transit Fleet Manager can be used to centrally manage mDVR devices on fleets of buses or train cars.



Nextiva Transit Review lets users efficiently scan video, audio, and metadata.

## Nextiva Transit: The Industry's Most Comprehensive Video Security Portfolio

Nextiva mDVR is part of Nextiva Transit, the industry's most comprehensive video security portfolio. Built on Verint expertise from thousands of successful deployments, Nextiva Transit captures, analyses, and transmits video from virtually any fixed or mobile location, with a wide array of wireless and wireline edge devices, sophisticated video analytics, versatile video management software, and rugged mobile cameras, monitors, and intelligent DVRs. Integration with physical security, emergency response, and on-board vehicle systems streamlines deployment and generates a more complete and actionable view of transit operations. Nextiva helps transit authorities create a safer transportation environment, reduce vandalism and false claims, increase passenger usage, and operate more effectively.

## Verint. Powering Actionable Intelligence.®

Verint Systems Inc. is a leading provider of actionable intelligence™ solutions for an optimised enterprise and a safer world. More than 10,000 organisations in over 150 countries rely on Verint solutions to perform more effectively, build competitive advantage, and enhance the security of people, facilities, and infrastructure.

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