

# 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.

Ready integration with on-board information systems — such as CAD/AVL/IBIS and 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.

Easy interoperability with Vehicle Area Networks enables video data to also be correlated with important on-board information: speed, brake, turn signal, etc.

And 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 easily withstands 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
<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 (Full Motion):</b> • 150 FPS/CIF PAL (180 FPS/CIF NTSC) with 6 inputs at 1-25 FPS PAL (1-30 FPS NTSC) • 300 FPS PAL/CIF PAL (360 FPS/CIF NTSC) with 12 inputs at 1-25 FPS PAL (1-30 FPS NTSC)	■	■	■	■
<b>Power Supply:</b> • 11-48V/DC (unit consumption 75W max) • 24 or 110V/DC (unit consumption 150W 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
<b>Video Output</b>	1 BNC	2 BNC	2 BNC	2 BNC
<b>Audio Input:</b> 2 line in or microphone	■	■	■	■
<b>Hard Drive:</b> • 2.5" removable hard drive, 320GB maximum capacity • 3.5" removable hard drive, 750GB maximum capacity	■	■	■	■
<b>SD Card</b>	■	■	■	■
<b>Removable CF Card</b>	Optional	Optional	Optional	Optional
<b>Interfaces:</b> • GPS interface • LED support • Ethernet 10/100Mbit	■	■	■	■
• IBIS interface • RS 422 • USB 2.0 device	■	■	■	■
• J1708 interface • RS 232 • USB 2.0 host	■	■	■	■
<b>2 Ethernet Interfaces</b>	■	■	■	■
<b>Playback and Configuration Software:</b> Verint MVM2G 2006 - ReView and MVM2G 2006 - Config for MS Windows 2000/XP Professional	■	■	■	■
<b>Operating Temperature:</b> • In operation: -20° to +55°C (-4° to +131°F) with extended temperature of -40° to +70°C (-40° to +158°F) • In recording mode: -5° to +55°C (23° to +131°F)	■	■	■	■
<b>Cooling</b>	Passive	Passive	Active	Passive
<b>Mounting</b>	Adapter	Adapter	Adapter	19" rack
<b>Housing (HxWxD), including mounting and connectors:</b> • 360 x 80 x 284 mm (14.17 x 3.14 x 11.18 inches) • 375 x 99 x 284 mm (14.76 x 3.90 x 11.18 inches) without adapter	■	■	■	■
<b>Weight:</b> 3.9 kg (8.6 lbs), including hard drive	■	■	■	■
<b>IP Class:</b> IP44	■	■	■	■
<b>EMC:</b> 5055022, CIS PR22, FCC PART 15, SAEJ1113, J1455, EN61000-3-2/3, EN50130-4, EN50155, CE Directive 2004/108EC part 89/336/EEC, EN50121-3-2, ISO7637	■	■	■	■
<b>Shock and Vibration:</b> SAE J1455, MIL-202 F/MILStd-810, EN61373	■	■	■	■
<b>Safety and Fire:</b> EN60950, CSA 60950, NF16-101+102, DIN5510	■	■	■	■

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
- ❖ Integration with on-board transit technologies, including:
  - CAD/AVL/IBIS      Automatic Vehicle Monitoring (AVM)
  - IP-Based Wireless      Automatic Voice Annunciation (AVA)
  - G-Force Sensors      Vehicle Area Networks
- ❖ Collection of incident-related data: speed, location, turn signal, brake, etc.
- ❖ Configurable G-Force interface
- ❖ 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, event and alarm analysis using a timeline viewer, and simultaneous evaluation of up to 6 hard disk drives

### Optimal Use of Video and Network Resources

- ❖ Hybrid recording (from analog and digital cameras) to protect video investments
- ❖ 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
- ❖ Central and/or local video storage and review
- ❖ Internal storage up to 750GB removable; extended storage via USB 2.0
- ❖ 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), Surface Mount Device (SMD) technology, and single-board construction 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 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 and no additional licensing costs. IBIS, J1708, 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 configuring and integrating all mDVR devices, with a built-in SD or CF card. USB 2.0 support streamlines configuration and firmware updates. For enhanced manageability, Nextiva Transit Fleet Manager can be used to centrally configure and manage mDVR devices on fleets of buses or train coaches.



Intuitive mDVR review software 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. Easy integration with physical security, emergency response, and on-board 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 global provider of analytic software-based solutions for enterprise optimisation and security. Verint solutions help organisations make sense of the vast voice, video, and data available to them, transforming this information into actionable intelligence for better decisions and highly effective performance.

Since 1994, Verint has been committed to developing innovative solutions that help global organisations achieve their most important objectives. Today, organisations in over 100 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

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