Advanced Voice Recording Systems for
Air Traffic Management, Legal Recording,
Radio Communications and Ground Control

ED-137 VoIP Recording • Analog • E1 • T1
GRS • VCCS • CWP • Legal • Ambient • Telephony
Replay • Quarantine • Impound • Export
Off-Line Replay • Monitoring • Reporting
Synchronized Replay Integration • API
## NexLog Voice Recorders for ATM and ATC

NexLog recording systems are designed to meet the specific needs of ATM/ATC environments, and feature an open system architecture with embedded Linux operating system, embedded robust SQL database, up to 12 terabytes of internal RAID storage and multiple levels of redundancy. Archive storage choices include RDX, Blu-ray, DVD-RAM, USB, Removable HDD, Network Attached Storage (NAS) and automatic replication to other NexLog recorders. NexLog solutions are fully scalable from a single ATC site to national deployments with multiple sites and many thousands of channels.

### Recording:
- Records VCCS, GRS, CWP and ambient audio
- ED137B/C-Part 4 VoIP recording conformance
- Records telephony (VoIP, T1/E1, ISDN, Analog)
- Supports ATM legal recording requirements

### Security:
- Encrypted storage for maximum security
- Support for compliance with password policies
- Multi-tier access security for users and groups
- Comprehensive auditing of each user’s actions

### Replay, Investigation and Training:
- Intuitive user interfaces help to increase the efficiency of investigations and training
- Web-based tool for analysts, investigators and trainers to search, replay, quarantine, and impound across one or many recorders
- Off-Line PC replay tool for impounds and archives, including tamper detection
- Performance analysis and evaluation tools for training and process improvement

### Resilience:
- Fault-tolerant with redundant power supplies, storage drives and archiving
- Fully redundant dual recorders are available
- Optional automatic archiving/replication between two or more NexLog recorders

### System Management:
- Web-based tool for complete system management, configuration and control
- Optional LDAP or Active Directory integrations
- Alarm management, remote alerting, SNMP

NexLog recorders are supplied as turn-key servers for optimum convenience, reliability and ease of installation. Contact Eventide for special VoIP recording needs such as ED137 on COTS or VM.
MediaWorks PLUS Software for Search, Replay, Impound, Export and More...

The NexLog MediaWorks PLUS software provides a complete set of tools to manage each incident’s recordings and to control access. Features include multi-parameter search, multi-channel replay, graphical time-line, pitch-corrected variable-speed, loop playback, skip forward/back, audio waveform displays, playback AGC, live monitoring, quarantine, impounding and export. To meet the specialized needs of ATM/ATC operations, Eventide offers two variations of MediaWorks PLUS software:

- **Off-line Windows application:** Provides secure replay of impounded files (with validation) and archives, without a network connection to the NexLog recorder. Also permits secure search, replay and management of recordings and incidents via network connection to the recorder.

- **Web-browser interface:** Secure search, replay and management of recordings and incidents using Chrome, Firefox, Safari, IE9/10 or Edge browsers on Windows, Mac, or Linux PC. Capabilities include:
  - Create an incident
  - Name the incident
  - Set access permissions
  - Quarantine recordings
  - Impound & validate
  - Split audio clips
  - Merge audio clips
  - Add voice annotation
  - Add text annotation
  - Add text notes
  - Talking time & date
  - Save the incident
  - Export the incident
  - Email the incident
  - Burn CD/DVD/Blu-ray

ED-137 VoIP Voice Recording

Eventide offers NexLog recording solutions that implement the ED137B/C-Part 4 interface, providing active VoIP recording from ED137 capable Ground Radio Stations (GRS), Controller Working Positions (CWP), and Voice Communications & Control Systems (VCCS).

Eventide is a member of the EUROCONTROL VoIP in ATM Implementation and Transition Expert (VOTE) group, and directly contributes to the ED137 standard for voice recording.

Eventide also participates in EUROCAE Working Group 67, which is involved with specifying the implementation of Voice over Internet Protocol (VoIP) for Air Traffic Management.

Synchronized Voice/Radar Replay

NexLog recorders have been interfaced with Thales TopSky playback servers for fully synchronized replay search, play, pause and resume.

Leading providers of At-The-Glass (ATG) screen recording and data recording solutions now offer multimedia replay tools that synchronously replay data with NexLog voice recordings.

NexLog API’s

Eventide offers a set of Application Programming Interface (API) options, which allow development partners to programmatically search and access voice recordings for use during synchronized multimedia replay.

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**Touch Screen Option**

- Search, replay and protect recordings directly from the recorder’s front panel.
- Create incidents, export incidents and burn to CD/DVD
- Live monitor, view alerts, view archive status, view logs and configure the NexLog system

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**NexLog 740**

- **Channel Capacity**: Up to 1,000 ED137, 240 Telephony VoIP, 240 T1 or ISDN-PRI, 240 E1 or ISDN30, 120 Analog 2-wire, 60 Analog 4-wire, or 120 Digital PBX 2-Wire
- **Power**: Dual hot-swap power supplies, 350W, 100-240VAC, 50-60Hz (optional -48VDC or +24VDC input)
- **Dimensions**: 3U rack-mountable, Height 5.25” (134mm), Width 19” (482mm), Depth 24” (610mm)
- **Weight**: 50 to 80 pounds (23 to 34 kg)
- **Environmental**: +5C (41F) to +40C (104F), 10 to 80% RH non-condensing, 1190 BTU

**NexLog 840**

- **Channel Capacity**: Up to 1,000 ED137, 240 Telephony VoIP, 240 T1 or ISDN-PRI, 240 E1 or ISDN30, 240 Analog 2-wire, 120 Analog 4-wire, or 240 Digital PBX 2-Wire
- **Power**: Dual hot-swap power supplies, 400W, 100-240VAC, 50-60Hz
- **Dimensions**: 4U rack-mountable, Height 7” (178mm), Width 19” (482mm), Depth 26” (661mm)
- **Weight**: 65 to 95 pounds (30 to 43.2 kg)
- **Environmental**: +5C (41F) to +40C (104F), 10 to 80% RH non-condensing, 1360 BTU

NexLog systems can be configured to record from all types of ATM and ATC audio sources, including controller working positions (CWP), voice communication control systems (VCCS), ground radio stations (GRS), ambient audio sources, telephony devices and telephony circuits.

- **ED-137B/C-Part 4 Voice Recording**: Active VoIP/RTSP from GRS, VCCS and CWP
- **TDM Voice Recording**: T1 or E1 from VCCS, T1 or E1 passive tap, ISDN-30 or ISDN-PRI passive tap, ISDN-BRI S/T passive tap, Digital telephone passive tap
- **Analog Voice Recording**: Records from 600 Ohm and Hi-Z circuits including telephone lines and ambient audio (preamp required), 2-wire or 4-wire (uses 2 channels), 10k Ohm input, 200 to 3400 Hz frequency response, >50dB signal to noise ratio, -60dB crosstalk, fully programmable automatic gain control (AGC)
- **VoIP Telephony Recording**: SIP and H.323 endpoints, SIP Trunks, G.711, G.722, G.729
- **HDD Storage Array Options**: 1TB RAID 1, 1TB (SSD) RAID 1, 2TB RAID 1, 2TB RAID 10, 3TB RAID 5, 4TB RAID 1, 4TB RAID 10, 6TB RAID 5, 8TB RAID 10, or 12TB RAID 5
- **Archive Storage Options**: Single or Dual DVD-RAM, Single or Dual Blu-ray, Single or Dual RDX, Single or Dual Removable 1TB HDD, 1TB external USB HDD, USB Flash, 1 to 6 Network Attached Storage (NAS) destinations, Central Archive
- **Time Synchronization**: Network time protocol (NTP), RS-232, optional IRIG-B
- **Network Interfaces**: Dual Ethernet, 100/1000Gb, add-on NICs, NIC bonding

**Optional Accessories**

- Rack cabinets, Displays, KVM switches, UPS systems, GPS clocks, Replay and Reproducer PCs, NAS systems, Quick install kits, Cables, Preamps, Archive media, Spare units, Spare parts kits

**Available Eventide Services**

- Factory acceptance testing (FAT), Factory staging, Technical training, Engineering, Remote support, SAT, Localization, Extended warranties

Visit www.eventidecommunications.com for full product details and the latest information.

© 2017 Eventide Inc. Specifications and features subject to change without notice. Some features are extra-cost. * Capacities apply to latest NexLog with i3 CPU Check with Eventide for hybrid (mixed-type) channel capacities, and for pre-sales review of digital telephone, VoIP telephone, and VoIP codec compatibility.