VR240
24-Channel Digital Logger

Third Generation Performance and Reliability

Eventide, the company that invented DDS tape-based digital loggers, continues to enhance its field-proven VR240 Digital Audio Logger. The VR240 is designed to bring affordable digital voice logging to any public safety, financial, broadcast, or customer service agency requiring an archive of 8, 16, or 24 channels of telephone and radio communications.

Latest Archive Drive Technology

The VR240 offers a choice of either single or dual archive drives. Rewriteable DVD-RAM provides 5.2 gigabytes of storage for 700 channel hours per medium. These discs are rewriteable thousands of times and are guaranteed by the manufacturer to last 30 years or more. DDS-2 DAT and DDS-3 DAT drives are optionally available with 550 and 1600+ channel hours of storage respectively. Finally, 5.2-gigabyte magneto-optical storage is also an option with 650 channel-hours of storage capacity. All archive drive options include the ability to easily upgrade to new features and benefits by simply loading a software upgrade tape or disc into the drive.

Key Features:

- **8, 16, or 24 channel capacity**
- **Compact desktop or 19" rack mount design**
- **Optional archive drives including DVD-RAM, DDS-2, DDS-3, or Magneto-Optical**
- **Searches by time/date, channel #, next message, and saved segments**
- **Audible and visual alerts**
- **Mix any combination of installed channels for playback and live monitoring**
- **Internal hard disk provides instant recall and buffered backup**
- **SafeDrive™ buffering for increased archive drive reliability**
- **Separate "mini" portable model VP204 playback unit available**
- **Built-in UPS**
- **Software upgrades from the archive drives**
- **Built-in FCC-approved telephone couplers**
- **Record up to 19.2K baud data on a separate input without interfering with audio**

SafeDrive™ Buffering and Instant Recall

The VR240 system includes a standard internal hard disk drive that provides 275 channel-hours of storage. (Larger disks are available optionally.) Eventide's exclusive SafeDrive buffering system uses a portion of the hard disk to record 3 hours of audio before starting the archive drive. This typically reduces the number of drive start-stop cycles by a factor of ten times or more, enhancing the VR240's reliability compared with other digital logger brands. The hard disk also acts as a "media full" buffer. If the archive drives are off line (not recording) for any reason, the hard disk will continue to record. When the archive drives are returned to the record mode, the audio that came in during the off-line period will be automatically transferred to the archive media, thus maintaining an uninterrupted record. The hard disk can also be accessed at any time for instant recall of recently-recorded communications.

Remote Control From a Standard PC

Eventide's exclusive PC Remote software package installs into any PC running Windows 95 or higher with a Pentium processor or better. This simple-to-install, simple-to-use program provides control of the logger via an RS232/RS485 interface.

An audio cable brings the audio from the lineout jack to a high quality speaker unit provided with the package. The computer monitor rests on the speaker; no additional desk space is required. Front panel controls are available from the PC including live monitor, search, play, rewind, fast forward, and instant recall.

Simplified Installation

All audio line interfacing, including FCC-approved telephone couplers, is built inside the VR240's compact package. "Beep" tones to signify a recorded conversation can be added by the VR240 on a channel-selectable basis. Add to this the ability to make all required audio adjustments right from the VR240 front panel and you have the easiest install in the industry.

Proven Track Record

Eventide pioneered digital audio logging for public safety as well as broadcast applications. Thousands of Eventide-built loggers operate around the clock, around the world, in critical applications. For further information, contact your local two-way radio installer, call Eventide direct at 201-641-1200, or see our web site, www.eventide.com.

VR240 Specifications

SYSTEM CONFIGURATION
Number of Archive Drives: 1 or 2
Number of Channels: 8, 16, or 24
Archive Drive Options: DVD-RAM, DDS-2, DDS-3 and Magneto-Optical

HARD DISK DRIVE (SCSI)
Normal record buffering up to 3 channel hours, backup record buffering up to full capacity of disk
Instant Recall Yes
Audio capacity 550 hours (standard), 1250 or 2500 hours (optional)

REMOVABLE STORAGE MEDIA
DVD-RAM Storage Capacity
  5.2 gigabytes, 700 channel hours
DDS Tape Storage Capacity
  DDS-2: 90 meter, 2 gigabytes, 250 hours
  DDS-2: 120 meter, 4 gigabytes, 550 hours
  DDS-3: 125 meter, 12 gigabytes, 1600+ hours
Magneto-Optical Storage Capacity
  5.2 gigabytes, 700 hours

SEARCH/PLAYBACK
MONITORING CAPABILITIES
Live Record Monitor
Any combination of channels
Playback Monitor
Any combination of channels
Simultaneous Record & Play
Yes

SEARCH TIMES
Hard Disk: Milliseconds
DVD-RAM: Milliseconds
DDS Tape: Average 35 seconds

Search Criteria
Time/date, next program, channel #, saved location
Audio Outputs
Internal front panel speaker, headset, line, external speaker

FRONT PANEL INTERFACE
Display
4 lines x 40 characters backlit VFD
Soft Function Keys
4 variable function keys
Fixed Function Keys
Record, Play, Rewind, Fast Forward, Stop, Eject
Keypad
12 Key
Screen Keys
Next and Previous
Channel Indicators
24 channel-status LEDs

SECURITY
Password protected

ALERTS
Audible And Visual
Any system fault, tape almost full, tape full

INPUT CHARACTERISTICS
Frequency Response
200 to 3400 Hz
Signal To Noise Ratio
50 dB typical
Cross Talk
-60 dB typical
Wow And Flutter
Unmeasurable
Input Impedance
>10k ohm
Automatic Gain Control
10 milliseconds attack time, 100 milliseconds release time
Adjustable VOX
Threshold and hold time
Recording Initiated
VOX, off-hook, external, continuous
Sampling Rate
8 kHz, 8 bit
Compression Rates
16, 32, or 64kb/sec.
Adjustments
All audio adjustment from front panel
Serial Data Record
2 channels 300 to 19,200 baud
FCC-Approved Phone Interface
Built-in, selectable "beep" by channel

REMOTE CONTROL
PC via Windows application software and RS485 link

SYSTEM DIAGNOSTICS
Power-on self test, error log, history log, system monitoring

PHYSICAL DIMENSIONS
W: 17.00"/432mm
    19.00"/483mm (with included rack ears)
H: 5.25"/133mm
D: 17.50"/445mm

WEIGHT
Unit weight: 31 lbs./14kg

CONFIGURATION
Compact desktop or 19" rack mount

TIME CODE
Resolution: 1 second
Accuracy: 2 seconds per day
External Sync: RS485/232 format 0, 1, or 2

POWER
90 to 250 VAC or 180 to 250 VAC, 45 to 63 Hz, 160 watts

ARCHIVE MEDIA
5.2GB rewriteable DVD-RAM, 120M DDS-2 DAT, 125M DDS-3 DAT, 5.2GB Magneto-Optical Disks

OPTIONS AND ACCESSORIES
• Smart label printer
• ECW-40 GPS Time Sync
• VP204 Play-only Unit
• PC Remote Control software package
• Larger capacity hard disks

Eventide
the next step®