



Live Monitor controls turn your PC into a remote, real-time monitor.



Play original archives anywhere with ArchiveReview™ Software.



## VR320 SPECIFICATIONS



### SYSTEM CONFIGURATION

Archive drive (1 or 2)  
9.4GB DVD-RAM drive - disk size and capacity (double-sided):

- 5.2GB: 680 channel hours
- 9.4GB: 1260 channel hours

Data Grade DAT drive - tape format and capacity

- DDS-2: 540 channel hours
- DDS-3: 1660 channel hours

Number of channels  
8, 16, 24, 32, 40, or 48

Maximum on-line storage  
• 5,580 channel hours internal

- 70,000 channel hours with external hard disk array

Mounting options  
19" rack mount or desktop

INTERNAL HARD DISK DRIVE

Hard disk capacity  
Standard: 1230 channel hours

Optional: 2460, or 4900 channel hours

(Frequently changes, call for latest specifications.)

Back up record buffering  
Up to full capacity of disk

Instant recall  
Yes

Normal record buffering  
For DVD-RAM drive: 1.2 channel hours

For tape drive: 3 channel hours (exclusive SafeDrive™ buffering employed to extend life of tape drives)

CALL RECORDS DATABASE

Data stored  
Time, date, duration, telephone number (DTMF or CLID), channel descriptor, channel number, optional field

### SEARCH / PLAY / MONITOR

Search on-line and archived data

Remotely: Search call records by time/date, channel number, duration, telephone number (DTMF or CLID), optional code, between two points in time, between specified dates.

Front panel: Commands to view, tag, sort, and play the internal call-list; alternatively, search by time/date, next message, channel number, or saved message.

Search times  
9.4 or 5.2 GB DVD-RAM  
Milliseconds

DDS-2 or DDS-3 DAT  
Average 35 seconds

Internal hard disk  
Milliseconds

Playback or live monitor  
Mix any combination of 4 channels

Simultaneous record and play  
Yes

Audio outputs  
Internal front panel speaker, external speaker, headphone, line

FRONT PANEL INTERFACE

Display  
4 line x 40 character backlit LCD

Soft keys\*  
4 variable function

Function keys\*  
Recall, Info, Setup, Drive, Home, and More

Transport control keys\*\*  
Record, Play, Rewind, Fast Forward, Stop, Eject

Keypad\*  
12 keys including Quit and Enter

### Cursor\*

4 directional control keys  
\*Backlit when available  
\*\*Backlit when active

Channel indicators  
48 channel-status line on LCD

Individual Drive Status LEDs  
Select, Record, Full/Almost Full, Clean, Fault

Audio and Relay  
3.5mm jack for alarm/rerecord relay

3.5mm jack for audio line out

1/4" jack for headphones

REAR PANEL CONNECTIONS

Network  
10BASE-T (10 Mbps) twisted pair

10BASE-2 (10 Mbps) coax

RS232/RS485  
For use with optional label printer, status printer, time synchronization, and PC Remote software control

External SCSI  
For optional external hard disk array

Audio  
1/4" phone jack for lineout

1/4" phone jack for external speaker

REMOTE CONTROL

- Over an existing or dedicated TCP/IP Ethernet using Eventide Network Access Software.

- PC via RS485 link using Eventide PC Remote Software

- PC via web browser software and TCP/IP connection

SECURITY  
Multi-level password

### AUDIO AND VISUAL ALERTS

System or Drive Fault, Tape Almost Full, Tape Full (configurable relays available for remote alarm)

INPUT CHARACTERISTICS

Frequency response  
300 to 3400 Hz

Signal to noise ratio  
50 dB typical

Crosstalk  
-60 dB typical

Wow and flutter  
Unmeasurable

Input impedance  
10K ohm

Automatic gain control (AGC)  
10 milliseconds attack time

100 milliseconds release time

Adjustable VOX  
Threshold and Hold Time

Record initiation  
VOX, Off-hook, External, Continuous

Sampling rate  
8kHz, 8Bit

DATA COMPRESSION

Selectable: 16, 32, or 64 Kb/sec

SERIAL DATA RECORD

2 Channels 1200 to 19,200 Baud

TELEPHONE INTERFACE

FCC-Approved, internal, selectable beep by channel

T1/E1 and ISDN direct interface option  
Yes

### SYSTEM DIAGNOSTICS

Self Test, Error Log, History Log, System Monitor

PHYSICAL

Dimensions  
W: 17"/432mm

H: 5.25"/133mm

D: 17.5"/445mm

Weight  
Unit weight: 31 lbs/14 kg

Shipping weight: 42 lbs/19 kg

INTERNAL TIME CODE

Resolution  
1 second

Accuracy  
2 seconds per day

External time sync  
RS485/RS232 format 0, 1, or 2

IRIG-B (optional)

POWER

90V to 130V or 180V to 250V, 47Hz to 63Hz, 260W, optional 48V DC

ACCESSORIES

PC workstation equipped with Eventide remote access software, ArchiveReview™ software package with or without SCSI drive, label printer, Model ECW-40 GPS time synchronization system, play-only unit, desktop enclosure, quick-install kit

OPTIONS

Larger capacity hard disks, 8-channel hi-fi input board

MEDIA

5.2GB or 9.4GB Rewritable DVD-RAM, DDS-2 or DDS-3 tape

(Specifications subject to change)

Eventide®  
the next step®

# VR320

## Digital Logging Recorder

COMMUNICATION SYSTEMS DIVISION



WHEN PERFORMANCE COUNTS,  
COUNT ON EVENTIDE.

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the next step®

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Recreate events over a network with Network Access Software.



Faced with situations where your attention is critical, the last thing you want to worry about is the reliability of your equipment. Thousands of public safety and 9-1-1 emergency call centers, which need to preserve crucial communications, depend on the Eventide VR320 Digital Logging Recorder.

The Eventide VR320 Digital Logging Recorder is designed to perform flawlessly in the most demanding situations. We have combined the reliability and security of stand-alone digital logging recorders with the flexibility and convenience of PC control. No wonder so many emergency call centers turn to us for performance and reliability.

**The Reliability is Built-in**  
One key to confidence in the VR320 logging recorder is Eventide's complete control over the hardware and software platforms. Other manufacturers make logging recorders out of modified computers and must rely on the care taken by the PC manufacturer for reliable hardware and the quirks of giant operating system software companies for their program's performance. Eventide has a better approach, we build and test every unit shipped. And, since our proprietary software resides in non-volatile chips on our motherboard, a rare event of an internal hard disk failure won't prevent the logger from recording. Furthermore, Eventide's control over upgrades and enhance-

ments gives us the opportunity to offer updates to existing units, insuring that every logging recorder in the field has a long and productive life.\*

**Network Convenience Without Network Vulnerability**  
While the model VR320 logging recorder is designed as an easy-to-use, self-contained unit that can be controlled from the front panel, it can also be accessed over an existing or a dedicated network. A user interface, written by Eventide, resides in the computer and installs and opens like other PC programs. Complete access to all search and play functions is available from the PC, over the network, without being directly linked to the internal operation of the logger. Since the VR320 is a self-contained recorder, even inevitable network crashes won't disturb the recording of your valuable archives.

**Call Records Database**  
Standard in all VR320 recorders, the Call Records Database can be accessed from the front panel of

the logging recorder, from a PC over a network connection, or from a standalone PC equipped with ArchiveReview software.

Call data includes time, date, duration, DTMF or CLID data, channel descriptor, and channel number. Custom applications can be accommodated if additional data is needed (such as PIN numbers or other user-identification).

To make searching and sorting through communications fast and easy, Eventide stores each record on the hard disk and medium in the order it was received. A few quick clicks and the operator can recreate events, compile comprehensive call records, find specific users, create usage reports, sort, search, play, and edit.

**ArchiveReview™ Software – a new way to play archives**  
With ArchiveReview, the original archive medium recorded on an Eventide VR320 can be played on a standalone PC that has a SCSI DVD-RAM

or DAT drive. Neither a physical connection to the logger nor converting the data to a .wav file is necessary. Complete access to all archived communications, including the Call Records Database, is available. A simple, intuitive user interface makes ArchiveReview easy-to-use by incorporating familiar controls for play back of up to 24 channels simultaneously and providing multiple rewind and fast-forward speeds. Back and Next buttons also help to sort through the data with ease. The interface windows can be expanded to fill an entire computer screen—ideal for viewing in a public setting such as a courtroom—or minimized to allow simultaneous operation of the computer for other tasks. An optional foot control is available for users who wish to transcribe communications into a word processor while listening to the original archive.

**Customize to Fit Your Application and Budget**

**Choose a Single or Dual Archive Drive Configuration**

• **9.4 gigabyte DVD-RAM**  
DVD-RAM represents the state-of-the-art for archive storage and retrieval. The 1280+ channel-hour capacity makes this medium perfect for storing multiple channels of high volume traffic on a compact and nearly indestructible fast-access disk.

• **5.2 gigabyte DVD-RAM**  
This economical media is compatible with 9.4-gigabyte DVD-RAM drives. The storage capacity of 685 channel-hours is perfect for low- and medium-volume use.

• **DDS Cassette**  
Store up to 550 hours per DDS-2 or 1600 hours per DDS-3. To ensure that the tape drive mechanism remains dependable, Eventide developed the exclusive SafeDrive™ buffering system.

It's designed to minimize the wear and tear of hundreds of starts and stops that typical tape drives undergo.

**Choose On-line Storage Capacity**  
On-line, hard disk storage is an

	Hard Disk Size	Capacity (Channel Hours)
Standard	9GB	1230
Optional <sup>1</sup>	18GB	2460
	36GB	4900

<sup>1</sup> Greater capacities (up to 400GB) can be obtained with an optional series MS320 Mass Storage Unit

important feature for anyone who needs immediate access to a database of voice recordings. With the VR320, you can choose the amount of on-line storage that's right for you.

**Choose Channel Capacity**

The model VR320 logging recorder can be configured in 8-channel steps with a 48-channel maximum capacity in a single unit. All models can be easily upgraded in the field making the addition of channels painless and inexpensive. Of course, multiple logging recorders can be "stacked" to provide a virtually unlimited channel configuration that is accessed seamlessly over an existing or dedicated LAN.

**Choose Convenient Remote Access**

**Eventide Gives You Three Different Ways to Access the VR320 Remotely**

• **Network Access Software**  
A versatile method of operating and monitoring the VR320 over an existing or dedicated Ethernet LAN. Full access to multiple units by multiple users is available with an array of features that include the ability to grant or deny access (on a channel-by-channel basis) to the internal hard disk, archive drives, or live audio. Various .wav file recording options are available that allow the customer to

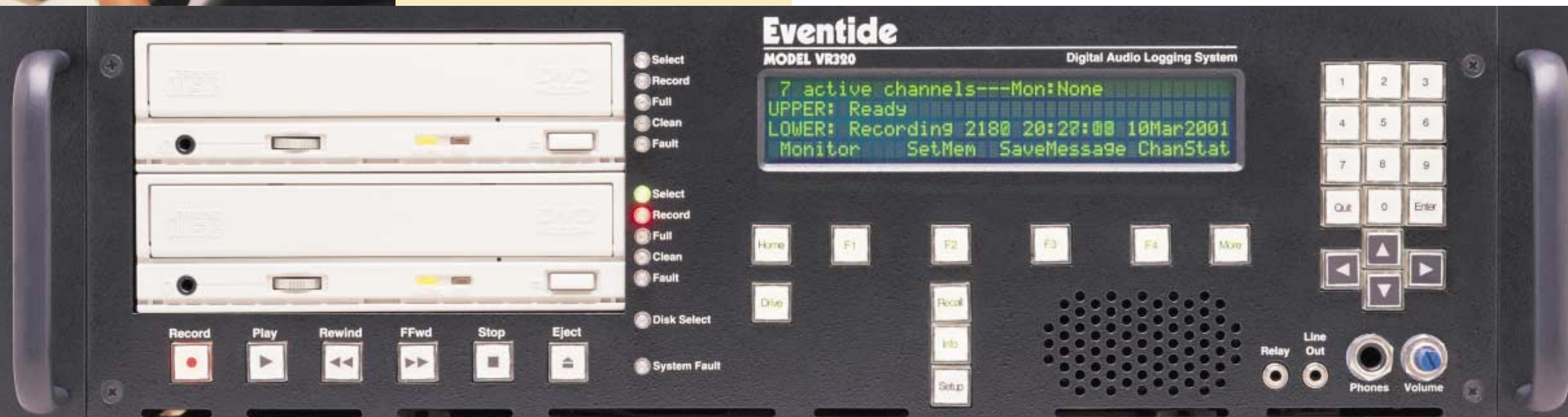
recreate events, edit existing files to remove unwanted audio or noise, and create a comprehensive local library of communications stored in standard PC format. Available alone or as a complete, integrated package.

• **Easy Intranet/Internet Access**  
A standard feature in all VR320s shipped after Y2K is the ability to access the logging recorder over an existing Ethernet network. Add the logger to your existing network by using the front panel controls to enter a TCP/IP address. Then access the logger using either the Netscape or Internet Explorer web browser by "book marking" the TCP/IP address the same way you would a URL address to find a favorite web site.

• **PC Remote Software**  
Eventide's remote access software controls the logger using an RS232/RS485 interface. The software may be used to recreate events by compiling .wav files, monitor live or archived communications through the computer sound card, and optionally call the logging recorder from any touch-tone telephone. Available alone or as a complete, integrated PC package.

**Over 30 Years of Technological Innovation**  
For over 30 years, Eventide has been committed to research and technological innovation. Thousands of customers around the world in such mission-critical operations as emergency call centers, air traffic control, and financial systems rely on Eventide.

For more information on the Eventide VR320 Digital Logging recorder, please call Gordon Moore at 201-641-1200, extension 301, or e-mail [gordon@eventide.com](mailto:gordon@eventide.com).



\*Virtually every Eventide VR320 or VR240 logger can be upgraded to the latest specifications, features, and software version. If you are interested in this service, please contact us with details of your Eventide recorder.