

Eventide[®]
the next step[®]



VR204

4-Channel Digital Logger

Affordable Digital Voice Logging

The VR204 digital audio logger brings affordable digital logging to small and mid-sized public-safety facilities who need recorded archives of telephone and radio transmissions. Its four channels store more than a month of recordings on a single, tiny DDS tape. Individual channel time- and date-stamps provide simple and fast searches of emergency communications. An internal hard disk provides instant recall, tape drive backup, and allows the unit to record and play simultaneously.

Unprecedented Storage Capacity

The VR204 provides powerful performance within a compact package. A single DDS-2 tape drive provides 550 channel hours of storage on a 120M DDS-2 tape, or choose the optional DDS-3 drive to store 1600+ channel hours on one 125M DDS-3 tape. That's more than two weeks when recording 4 channels, 7 days a week, 24 hours a day. Set the unit to record only when signal is present and you may get more than a month on a single tape! Industry-standard DDS tapes fit in the palm of your hand, are economical, and require minimal storage space. Either drive option allows software updates to add new features and benefits by simply inserting an upgrade tape.

KEY FEATURES

- **Stores weeks of communications on a single DDS-3 tape**
- **Fast and easy search functions**
- **Economical and compact, rack-mount or desktop**
- **Simultaneous record and play**
- **Audible and visual alarms**
- **Mix any combination of channels for playback or live monitoring**
- **SafeDrive™ buffering for increased reliability**
- **Instant recall from the front panel without interrupting the record process**
- **Software upgradable in the field**
- **Internal FCC-approved telephone couplers**
- **Simple installation**

Intelligent Internal Hardware

The VR204 includes a standard internal hard disk that provides instant recall as well as fast access to the previous 275-channel hours (larger disks are available) recorded without interrupting the record process. If, for any reason, the tape drive is offline (for example, it is being used for playback of an archive tape or if the tape is full), the hard disk will continue to record to its full capacity. When the tape drive is returned to the record mode, everything recorded on the disk will be transferred automatically to the tape.

Eventide's exclusive SafeDrive™ buffering system uses the internal hard disk to buffer recorded data for three channel hours before transferring it to the tape drive. This typically reduces the number of tape drive start-stop cycles by a factor of ten or more, enhancing the VR204's reliability compared with other digital logger brands.

Simple To Search And Play

Each channel's description and time and date stamp is archived on the tape. Search from the front panel by simply choosing a channel and entering the desired time and date. The transport control keys for both the tape drive and the internal hard disk operate as the analog tape recorder controls you're used to. However, sophisticated software provides a host of features you won't find on a simple tape deck.

VR204 Specifications

You no longer need to fast forward through irrelevant material; the NEXT key will skip from one message to another. Not knowing exactly what time you're looking for isn't a problem. Just enter a time you're sure is before what you need and press the SCAN key. The unit will play at triple speed, pausing every few seconds to play in real time. These features only begin to describe the capabilities of this versatile machine.

Easy Installation

All audio line interfacing and FCC-approved telephone couplers are built into the VR204's compact package. "Beep" tones are selectable on a channel-by-channel basis. Add to this the ability to make all audio adjustments required by the VR204 right from the front panel, and you have the easiest install in the industry.

Versatile Playback Capabilities

While one VR204 can play back tapes recorded on any other VR204, it can also play back any of the 48 channels recorded on an Eventide VR320 or the 24 channels recorded on an Eventide VR240 or Dictaphone 9800 Logger. The economical VP204 play-only unit is available with all the play-back features of the VR204, but without an internal hard disk or the ability to record.

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.

SYSTEM CONFIGURATION

Number of DAT Drives 1 (DDS-2 or DDS-3)

Number of Channels 4

HARD DISK DRIVE

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 & 2500 hours (optional)

REMOVABLE STORAGE MEDIA

Tape Recording Format

HP/Sony DDS-2 or DDS-3

Error Detection

3 levels

Error Rate

<1 in 10¹⁵

DDS Tapes

90, 120, 125-meter data grade

DDS Audio Capacity

275 hours 550 hours 1600 hours

SEARCH/PLAYBACK

MONITORING CAPABILITIES

Live Record Monitor

Four channels simultaneously

Playback Monitor

Four channels simultaneously

Simultaneous Record & Play

Yes

SEARCH TIMES

Hard Disk

Milliseconds

DDS Tape

Average 35 seconds

Search Criteria

Time and date, next program, channel #

Audio Outputs

Headset, line out, external speaker

USER INTERFACE

Display

2 lines x 40 character backlit LCD

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

4 channel-status LEDs

SECURITY

Password protected

ALERTS

Audible And Visual

Drive fault, tape full, tape almost full

INPUT CHARACTERISTICS

Frequency Response

200 to 3400Hz

Signal To Noise Ratio

50dB typical

Cross Talk

-60dB 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, Both, Off

Sampling Rate

8 kHz, 8 bit

Compression Rates

16, 32, or 64kb/sec.

Adjustments

All audio adjustment from front panel

FCC-Approved Phone Interface

Internal, channel-selectable beep

SYSTEM DIAGNOSTICS

Power on self test, error log, history log, system monitoring

PHYSICAL DIMENSIONS

W: 14.6"/371mm

19.0"/483mm (with included rack ears)

H: 3.5"/88mm

D: 9.0"/229mm

WEIGHT

Unit weight: 15 lbs./6.8kg

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 universal, 47 to 63Hz

75 watts max

OPTIONS AND ACCESSORIES

- Smart label printer
- Larger capacity hard disks
- 120m and 125m DAT tapes
- ECW-40 GPS time sync
- VP204 play-only unit