



FEATURES

- Quarter rack module, fully self-contained unit
- Mounts into Motorola CENTRACOM® II, or Zetron rack or desk adapter
- Easy-to-use, intuitive controls
- Up to 64 minutes of digital voice storage at standard sample rate. Up to 128 minutes of storage at reduced sample rate
- 100% solid-state design, no moving parts
- Simultaneous record and playback
- Recording initiated by VOX, contact closure or line voltage
- Programmable VOX threshold & pause time
- Fast forward & reverse searches messages at eight times normal rate
- Recording warn tone notifies callers that recording is in progress
- Super-twist, backlit LCD shows mode, time of recording & time remaining
- Resettable call counter shows calls received & available memory remaining
- Automatic control of cassette recorder for cassette save of messages
- Headset jack for private listening
- Multiple time sync sources
- Built-in ALI record/replay capability
- Computer remote control capability
- Complies with requirements of NENA 04-001 Issue 1 for Recall Recorders

INTRODUCTION

The Model 3022 Instant Recall Recorder is a modular, solid-state audio recorder designed for use in public safety communications centers. It records and stores the last several telephone calls or radio transactions from an operator's position. This allows the operator to retrieve stored calls easily without leaving their position to go to the logging recorder. Recording is done into digital memory, eliminating mechanical failures while providing instant recall. The Model 3022 stores up to 64 minutes of conversation at standard sample rate, or up to 128 minutes at reduced sample rate.

SPACE SAVINGS

Zetron's modular PSAP & dispatch products provide a high degree of functionality in a small space because several modules may be mounted in the space of a single panel. The Model 3022 requires only one quarter of a 5.25" x 19" panel space. Its unique modular design allows it to be directly mounted into existing Motorola CENTRACOM® Series II console panels by replacing two unused modules in a channel control panel. For use in other consoles, the Model 3022 may be mounted in the rack adapter or may be mounted in the desk adapter.

RECORDING CONTROL

Recording is controlled automatically and requires no operator action. Even while playing back an older message, recording of a new message may take place. Recording can be controlled by several methods: voice-operated (VOX),

contact closure (such as off-hook condition of a telephone instrument), or telephone line voltage detection. Line voltage detection works for both single line and multi-button/1A2 applications. Line audio gain is automatically controlled to ensure proper level over a wide range of line conditions. If desired, the Model 3022 may provide a periodic recording warn tone on the phone line so that callers are aware that they are being recorded.

OPERATOR CONTROLS

Display — The backlit, wide view LCD provides display of current time and mode plus the time stamp and playing time remaining of the message being played. While the Reset button is pressed, the display shows the message counter and the available memory remaining.

Volume — The volume of the unit's 1-watt speaker is controlled by the volume knob.

Headset Jack — Plugging a headset into the jack mutes the unit's speaker for private listening.

Cassette Save — The Cassette Save button saves the current message to a cassette recorder. The Model 3022 controls the cassette recorder's motor.

Reset — The Reset button terminates play and makes the last recorded message the current message.

Save — The Save button saves a message so future recording will not destroy it. Pressing the Reset and Save buttons together un-saves all previous messages.

Clear — The Clear button un-saves a message. Pressing the Reset and Clear buttons together clears the message counter.

Play/Pause — The alternate action Play/Pause button initiates and pause playback.

Fast Forward — The Fast Forward button searches the playing message at 8x normal rate. While paused, it advances to the next message.

Fast Reverse — The Fast Reverse button searches the playing message backwards at 8x normal rate. While paused, it steps back to the previous message.

TIME SYNCHRONIZATION

Each recorded message is stamped with the time of recording which is displayed during playback to aid in searching for the desired message. The Model 3022's time may be derived by several methods depending on the accuracy required: 1) If a synchronizing source is connected to the external time-sync input, this signal becomes the unit's time standard. 2) The unit can derive its time synchronization from the 50 or 60 Hz AC line via the power adapter. 3) The internal crystal controlled clock can be used. This clock is nonvolatile and keeps time even with power removed.

COMPUTER INTERFACE

The Model 3022 may be remotely controlled via an RS-232 serial device such as a Computer Aided Dispatch (CAD) system. In this configuration the unit may be located in an equipment room rather than near the operator. (Precludes use of ALI Interface).

SPECIFICATIONS

DIGITIZING METHOD

Std. Sample Rate:	ADPCM at 32Kbps. CCITT G.721/ANSI T1.301 algorithm Low Sample Rate Proprietary at 16Kbps
Freq. Response:	200 to 3400Hz
Signal-to-Noise:	-50 to -45dB
Audio Input:	10 Kohm min. impedance, 5Mohm min (Phone and Audio) resistance -35 dBV to 0 dBV input level
Record Warn Tone:	1400Hz at -20 dBm into phone line every 15 seconds
Speaker Output:	1 watt max.
Power:	9-12VAC or 10.5-16 VDC 1.0 Ampere max.
Operating Temp.:	-25° to +70°C except LCD 0° to +50°C for LCD
Size:	4.25" W x 5.25" H x 10" D
Time Sync Formats:	TTL IRIG B/E, 1 PPS, WWVB or 50/60Hz AC line sync.
Telephone Interface:	RJ11C connector
Accessory Interface:	DB-9S connector
ALI/Computer Interface:	RS-232 at 300 to 9600 baud
Compliance:	FCC Part 68, Part 15/NENA 04-001, Issue 1

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