

SOUND REPEATER



Digital announcements and simple recording makes high-quality broadcasts and announcements possible.

Digital advantages contribute to enha and ease of installation.

For department stores, offices, schools, stations and anywhere announcements are needed, the EV-20R and PM-20EV help assemble a system that makes good use of the advantages only digital technology can provide. Using flash memory for recording and storing messages allows unlimited announcement repeats without the sound deterioration associated with analog recording and repeated playback.

PM-20EV

EV-20R

Main System Features

Digital advantages make all the difference.

Incorporating digital circuitry and technology do a lot to simplify operation and allow greater ease of use. The built-in flash memory provides enough storage capacity for up to six minutes of announcements. Recording perfect announcements becomes foolproof, allowing the user to overwrite mistakes until an announcement is perfect. Once announcements are ready, they can be programmed to repeat and sound quality is never compromised, even if a message is repeated over and over. The sound remains crisp and clear and easily intelligible thanks to digital recording/playback.

Recording quality is the same as CD-quality.

The reason for the extraordinary sound quality that the EV Series makes possible is that announcements are recorded in the same way as CDs at a 44.1kHz, 16 bit quantisation sampling rate. Recording is accomplished without using any compression for the best possible sound quality.

Digital also eliminates maintenance.

Since flash memory is used to store recorded announcements, there are no mechanical moving parts that could wear out with constant use, making the Sound Repeater maintenance-free. Even other digital systems that make use of CDs are subject to servicing at some time due to the CD mechanism that is incorporated.

Making sure recorded announcements are perfect.

To make recordings that are the best possible, an Automatic Gain Control (AGC) is built-in to eliminate differences in recording levels so that all announcements can be heard without annoying volume level variations.

Punctuating announcements with chimes.

Particularly useful inschools and stores, announcements can be prefixed and ended with a chime.

A CD-ROM containing a wide assortment of music selections and messages for specific situations as well as various chimes is included with the EV-20R and PM-20EV. It can be accessed on a PC connected to the EV-20R and PM-20EV via USB and the user can transfer whatever is desired.

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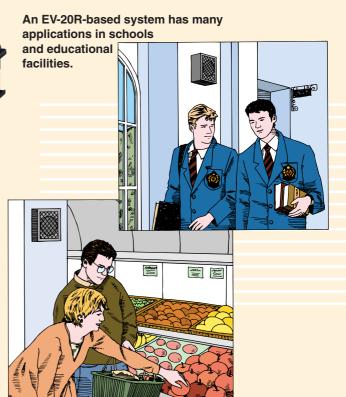
nced performance, simpler recording

Unit Features



EV-20R Sound Repeater (DesktopType)

- Up to 4 separate message selections or announcements to a total maximum of six minutes may be recorded for playback as desired. Front panel-mounted recording inputs (mic./line switchable) keep the process simple.
- A built-in interval timer allows messages to be repeated at various time intervals (0,5,10, and 30 seconds or 1,5,10, and 30 minutes or 1 hour or ∞).
- A 3W/8Ω amplifier section is built-in, allowing the EV-20R to be directly connected to speakers. A control for adjusting an external input source level is convenient when setting up programmed playback.
- A line input and output are included for connecting various other program sources including CD players or dedicated BGM units.



EV-20R used with a distributed speaker system proves ideal for use in supermarkets and department stores.



SPECIFICATIONS

FV-20R * 0dB = 1VPower Source Supplied from an external 24V DC/400mA power supply or from an optional AD-246 AC adapter Power Consumption 10W (rated output) 44.1kHz sampling frequency, 16-bit PCM (monaural) Wave Format Frequency Response 20 - 20,000Hz ±3dB (1kHz) 50 - 14,000Hz ±3dB (IT-450 mounted, 1kHz) Distortion Under 1% (1kHz, rated output) Recording System USB data transfer or analog recording Control Input Play 1 - 4, stop No-voltage make contact input, pulse make length: 200ms, open voltage: 30V DC, short-circuit current : 10mA removable terminal block (22 pins) Busy: Contact capacity: 30V DC/0.5A. Control Output removable terminal block (22 pins) Input Input / Recording input: Mic: -60dB*, 2.2kΩ/ Line: -20dB*, 10kΩ,(Mic/Line changeable), unbalanced, phone jack Line input : $0dB^*$, $10k\Omega$, unbalanced, removable terminal block (22 pins) Output Line output:0dB*,600Ω, unbalanced, removable terminal block (22 pins) Headphone output : $0dB^*$, 100Ω , unbalanced. phone iack Speaker output : 3W, 8Ω , removable terminal block (22 pins) LED Indicator POWER, USB, START/STOP 1-4 Maximum No. of Messages 4 Maximum Recording Time 6 min 0s. 2s or 4s (selectable) Message Delay Time ∞, 0s, 5s, 10s, 30s, 1 min, 4 min, 10 min, 30 min Playback Interval Time or 1 h (selectable) Operating Temperature 0°C to 40°C Operating Humidity Under 90% RH (no condensation) Finish Case: ABS resin, black Dimensions 210 (W) x44.2 (H) x181 (D) mm (excluding projection) Weight 730g Accessory CD-ROM (USB data transfer software and sample chimes recorded) \times 1, Unbalanced-phone plug \times 1, USB cable (1m) \times 1, Removable terminal plug (22 pins) × 1, Rubber feet × 4

Optional Acces	11	
AD-246 AC adapter (for EV-20R and PM-20EV)	WH-4000A Headset Microphone (for PM-20EV)	MB-WT3 Rack mounting bracket (for one EV-20R unit) MB-WT4 Rack mounting bracket (for two EV-20R units)

PM-20EV * 0dB = 1VPower Source Supplied from an external 24V DC/200mA power supply or from an optional AD-246 AC adapter

Power Consumption 44.1kHz sampling frequency,16-bit PCM(monaural) Wave Format 50 - 20,000Hz ±3dB (1kHz) Frequency Response Distortion Under 1% (1kHz, rated output)

Recording System USB data transfer or analog recording Busy: Contact capacity: 30V DC/0.5A, removable Control Output terminal block (7 pins)

Unidirectional gooseneck microphone Input (preinstalled on the unit)

Ëxternal microphone: -37~dB*, $2.2\text{k}\Omega$, unbalanced, mini iack

Output Line output: 0dB*, 600Ω, balanced, phone jack, removable terminal block (7 pins)

Monitor speaker (built inside): 0.2W LED Indicator USB, REC, MONITOR, PLAY, TALK

2 tones (4-tone chime (Up) and 4-tone chime (Down)). Internal Chime Tone ON/OFF operations

Maximum No. of Messages

6 min (including chime playback) Maximum Recording Time

Messages Delay Time 0s, 2s or 4s (selectable)

0°C to 40°C **Operating Temperature**

Under 90% RH (no condensation) Operating Humidity

Finish Case: ABS resin, silver

122(W) x 48.8(H) x 180(D)mm Dimensions (microphone and projections not included)

Weight

CD-ROM (USB data transfer software and sample Accessory

chimes recorded) \times 1, USB cable (1m) \times 1, Unbalanced-phone plug cord (2m) × 1, Removable terminal plug (7 pins) × 1

USB Date Transfer Software Operation Environment

Personal Computer	IBM-AT compatible type (equipped with the USB terminal)
Main Specifications	CPU: Pentium compatible CPU of 133MHz or more Memory: Over 64MB (recommended:128MB or more) Free disk space: Over 10MB (space for message storage excluded)
OS	Windows 2000/XP

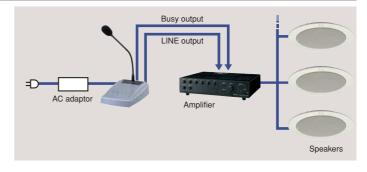
Notes: Pentium is a trademark of Intel Corporation. Windows is a trademark of Microsoft Corporation.

Other company names and products are also trademarks of individual companies. Line input and line output can be converted to balanced type using an optional IT-450 transformer (EV-20R only).

Application Examples









TOA Corporation