

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.

Main System Features

Digital advantages make all the difference.

EV-20R

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.

PM-20EV

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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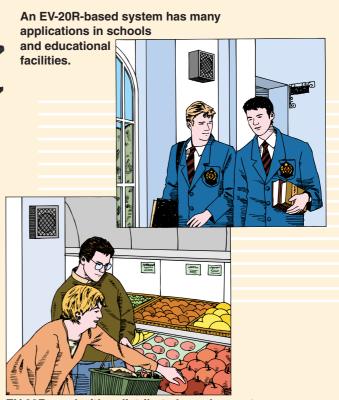
nced performance, simpler recording

Unit Features

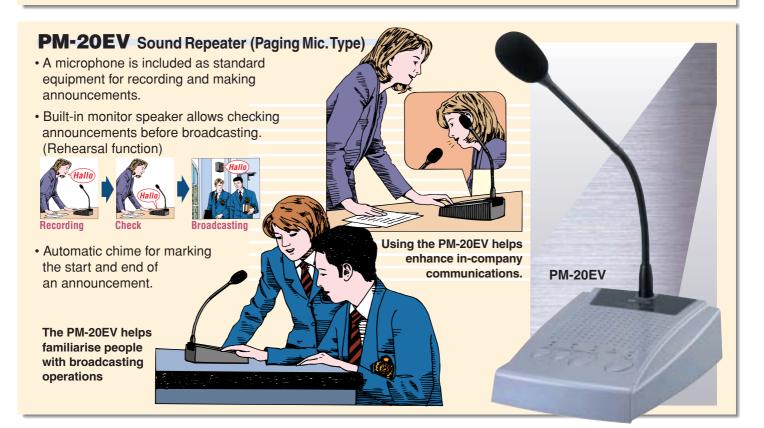


EV-20R Sound Repeater (DesktopType)

- 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

EV-20R	* 0dB = 1V	PM-20EV		
Power Source	Supplied from an external 24V DC/400mA power supply or from an optional AD-246 AC adapter	Power Source	Supplied from an e supply or from an e	
Power Consumption	10W (rated output)	Power Consumption	5W	
Wave Format	44.1kHz sampling frequency,16-bit PCM (monaural)	Wave Format	44.1kHz sampling	
Frequency Response	20 - 20,000Hz ±3dB (1kHz)	Frequency Response	50 - 20,000Hz ±3	
	50 - 14,000Hz ±3dB (IT-450 mounted, 1kHz)	Distortion	Under 1% (1kHz, r	
Distortion	Under 1% (1kHz, rated output)	Recording System	USB data transfer	
Recording System	USB data transfer or analog recording	Control Output	Busy: Contact cap	
Control Input	Play 1 - 4, stop: No-voltage make contact input, pulse make length : 200ms, open voltage: 30V DC, short-circuit current : 10mA terminal block type connector	Input	block type connec Unidirectional goo (preinstalled on the External microphor	
Control Output	Busy : Contact capacity: 30V DC/0.5A,		mini jack	
Input	terminal block type connector Input / Recording input : Mic: -60dB*, 2.2kΩ/ Line: -20dB*, 10kΩ,(Mic/Line changeable),	Output	Line output: 0dB*, 6 terminal block type Monitor speaker (b	
	unbalanced, phone jack Line input : 0dB*, $10k\Omega$, unbalanced, terminal block	LED Indicator	USB, REC, MONIT	
	type connector	Internal Chime Tone	2 tones (4-tone chir ON/OFF operation	
Output	Line output :0dB*,600 Ω , unbalanced, terminal block type connector	Maximum No. of Messages	1	
	Headphone output : 0dB*, 100 Ω , unbalanced,	Maximum Recording Time	6 min s/n:06L or la	
	phone jack Speaker output : 3W, 8 Ω , terminal block type	Messages Delay Time	0s, 2s or 4s (selec	
	connector	Finish	Case: ABS resin, s	
LED Indicator	POWER, USB, START/STOP 1-4	Dimensions	122(W) x 48.8(H)	
Maximum No. of Messages	4		(microphone and p	
Maximum Recording Time	6 min s/n:06L or later, 3 min s/n:06K or earler	Weight	710g	
Message Delay Time	0s, 2s or 4s (selectable)	Accessory	CD-ROM (USB dat chimes recorded)	
Playback Interval Time	∞, 0s, 5s, 10s, 30s, 1 min, 4 min, 10 min, 30 min or 1 h (selectable)		Unbalanced-phone Terminal block type	
Finish	Case : ABS resin, black			
Dimensions	210 (W) x44.2 (H) x181 (D) mm (excluding projection)	USB Date Transfer Software	e Operation Enviror	
Weight	730g	Personal Computer	IBM-AT compatible (equipped with the	
Accessory	CD-ROM (USB data transfer software and sample chimes recorded) \times 1, Unbalanced-phone plug \times 1, USB cable (1m) \times 1, Terminal block type connector (22 poles) \times 1, Rubber feet \times 4	Main Specifications	CPU: Pentium com Memory: Over 64MI Free disk space: C (space for messag	

external 24V DC/200mA power optional AD-246 AC adapter frequency, 16-bit PCM(monaural) 3dB (1kHz) rated output) r or analog recording pacity: 30V DC/0.5A, terminal ctor oseneck microphone he unit) one: –37 dB*, 2.2kΩ, unbalanced, 600Ω , balanced, phone jack, e connector built inside): 0.2W TOR, PLAY, TALK ime (Up) and 4-tone chime (Down)). ns later, 3 min s/n:06K or earlier ctable) silver x 180(D)mm projections not included) ata transfer software and sample) \times 1, USB cable (1m) \times 1, ne plug cord $(2m) \times 1$, pe connector (7 poles) $\times 1$ onment lo tuno

* 0dB = 1V

reisonal computer	(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.

IT-450 transformer (EV-20R only).

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

Busy output

LINE output

Amplifier

WH-4000A Headset Microphone AD-246 AC adapter (for PM-20EV) (for EV-20R and PM-20EV)

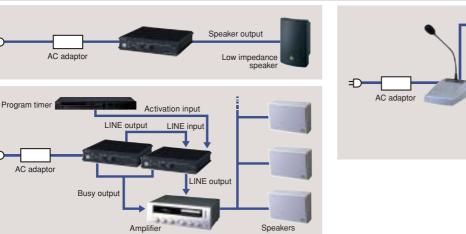
Optional Accessories

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Rack mounting bracket

(for two EV-20R units)



Application Examples



TOA Corporation www.toa.jp

Specifications are subject to change without notice. Printed in Japan (0404) 833-52-295-3A u TEI Rev1

Speakers