



Sound Repeater

EV-20R



Let it record and repeat high-quality audio files
as you programmed or being triggered.

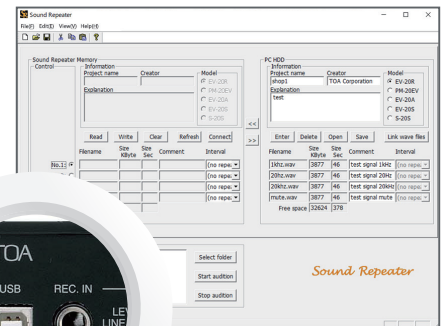
EV-20R Sound Repeater is a compact audio file management device, which allows uploading and playing back audio files to repeat voice messages and/or signal tones. Recorded messages can be triggered by dry contacts or automatically repeated as programmed.



Key Benefits

Sophisticated Audio File Management

- Dedicated file management software is supplied with the product.
- Audio file library is available on the supplied CD-ROM.
- Customized WAV files can be uploaded.
- Direct recordings can be done by front panel operation.



Flexible Announcement Operations

- Instant playback by front switch operation.
- Dry contact inputs are available to play and stop audio files by external devices such as sensors, program timers or manual switches.
- Repeat audio files as set by the built-in interval TIMER.

Key Features

- Up to 4 different messages can be stored in a built-in flash memory and played back.
- The maximum total recording time for the 4 messages is 6 minutes.
- Recorded data is not compressed, ensuring high quality sound output.
- Automatic Gain Control (AGC) can make recording audio levels uniform.
- An incorporated 3 W/ 8 Ω power amplifier allows direct connection with a low-impedance speaker.
- A USB interface permits audio data to be transferred from a PC with software.
- Live broadcasts can be made without recording by using a microphone or an audio player.

System Examples

Connected to Low Impedance Speaker



Connected to High Impedance Speakers with External Amplifier



Applications



Retail Shop



Railway Station



Supermarket



Factory

Advertising

Store Closing
Announcement

Safety
Instructions

Warning Alert

Cashier-help
Paging

Kiosk Promo

Time Signal

Door Bell

Optional Accessories

MB-WT3
Rack mounting bracket
(for 1 unit)



MB-WT4
Rack mounting bracket
(for 2 units, side by side)



AD-246
AC adapter



Specifications

Power Source	Supplied from an external 24 V DC/400 mA power supply or from an optional AD-246 AC adapter
Power Consumption	10 W (rated output)
Wave Format	44.1 kHz sampling frequency, 16-bit PCM (monaural)
Frequency Response	20 Hz - 20 kHz ± 3 dB (1 kHz), 50 Hz - 14 kHz ± 3 dB (IT-450 mounted, 1 kHz)
Distortion	1 % or less (1 kHz, rated output)
Recording Control	USB data transfer or analog recording
Control Input	Play 1 - 4, stop : No-voltage make contact input, pulse make length : 200 ms, open voltage: 30 V DC, short-circuit current : 10 mA removable terminal block (22 pins)
Control Input	Busy : Contact capacity: 30 V DC/0.5 A, removable terminal block (22 pins)
Input	Input / Recording input : Mic: -60 dB(*1), 2.2 k Ω / Line: -20 dB(*1) 10 k Ω , (Mic/Line changeable), unbalanced, phone jack Line input : 0 dB(*1), 10 k Ω , unbalanced, removable terminal block (22 pins)
Output	Line output : 0 dB*, 600 Ω , unbalanced, removable terminal block (22 pins) Headphone output : 0 dB(*1), 100 Ω , unbalanced, phone jack Speaker output : 3 W, 8 Ω , removable terminal block (22 pins)
LED Indicator	POWER, USB, START/STOP 1 - 4
Maximum No. of Messages	4 Pre-recorded audio data: Message 1, Westminster chime(*2) Message 2, Ascending 4-tone chime(*2) Message 3, Descending 4-tone chime(*2) Message 4, None Note: The above audio sources can be overwritten by using the supplied software.
Maximum Recording Time	6 min
Message Delay Time	0, 2 s or 4 s (selectable)
Playback Interval Time	∞ , 0, 5 s, 10 s, 30 s, 1 min, 5 min, 10 min, 30 min or 1 h (selectable)
Operating Temperature	0 °C to 40 °C
Operating Humidity	90 %RH or less (no condensation)
Finish	Case : ABS resin, black
Dimensions	210 (W) x 44.2 (H) x 181 (D) mm (excluding projection)
Weight	730 g
Accessory	CD-ROM (USB data transfer software and sample chimes recorded) ...1, Unbalanced-phone plug...1, USB cable (1 m)...1, Removable terminal plug (22 pins)...1, Rubber foot...4
Option	Rack mounting bracket: MB-WT3 (for rack mounting one EV-20R unit), MB-WT4 (for rack mounting two EV-20R units) AC Adapter: AD-246

(*1) 0 dB = 1 V

(*2) These audio sources are also contained in supplied CD-ROM as sample audio data.

* Line input and Line output can be converted to balanced type using an optional IT-450 transformer.

USB Data Transfer Software Operation Environment

Personal Computer	Windows PC (equipped with USB terminal)
Main Specifications	CPU Pentium 4, 2 GHz or greater Memory: 2 GB or more Free disk space: 10 MB or more (space for message storage excluded) Optical Drive: CD-ROM drive
OS	Windows 7 Professional (32/64-bit) Windows 8.1 Pro (64-bit) Windows 10 Pro (64-bit)

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