



# Sound Repeater EV-20R



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

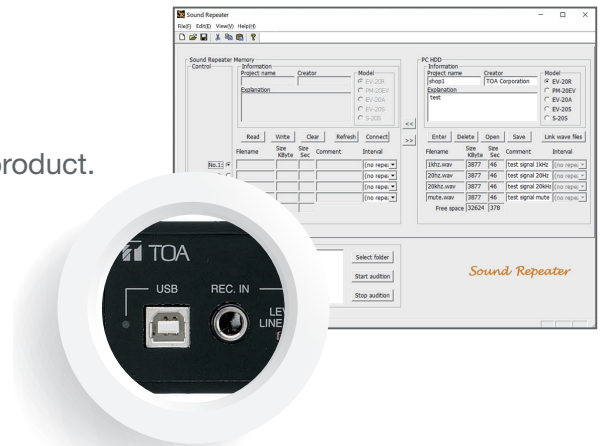
EV-20R Sound Repeater is a compact audio file management device, which allows uploading and playing back audio files to repeat voice messages and/or signal tones. Recorded messages can be triggered by dry contacts or automatically repeated as programmed.



## 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.

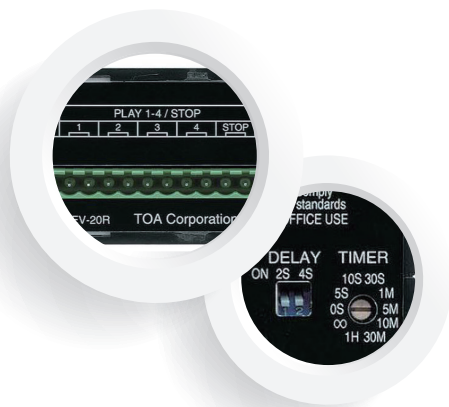


### Flexible Announcement Operations

- 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

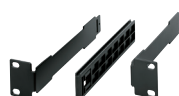
Door Bell

## 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 $\pm 3$ dB (1 kHz), 50 Hz - 14 kHz $\pm 3$ 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 $\Omega$ / Line: -20 dB(*1) 10 k $\Omega$ , (Mic/Line changeable), unbalanced, phone jack Line input : 0 dB(*1), 10 k $\Omega$ , unbalanced, removable terminal block (22 pins)
Output	Line output : 0 dB*, 600 $\Omega$ , unbalanced, removable terminal block (22 pins) Headphone output : 0 dB(*1), 100 $\Omega$ , unbalanced, phone jack Speaker output : 3 W, 8 $\Omega$ , 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	$\infty$ , 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)

\* Pentium is a trademark of Intel Corporation.

\* Windows is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

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**TOA Electronics, Inc**

[www.toaelectronics.com](http://www.toaelectronics.com)

[www.toaelectronicsUSA.com](http://www.toaelectronicsUSA.com)

FREE DESIGN SERVICES  
[freedesign@toaelectronics.com](mailto:freedesign@toaelectronics.com)

SALES GROUP  
[sales@toaelectronics.com](mailto:sales@toaelectronics.com)

CUSTOMER SERVICE  
[orders@toaelectronics.com](mailto:orders@toaelectronics.com)

PRODUCT SUPPORT  
[productsupport@toaelectronics.com](mailto:productsupport@toaelectronics.com)

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