Sound Repeater
EV-20R

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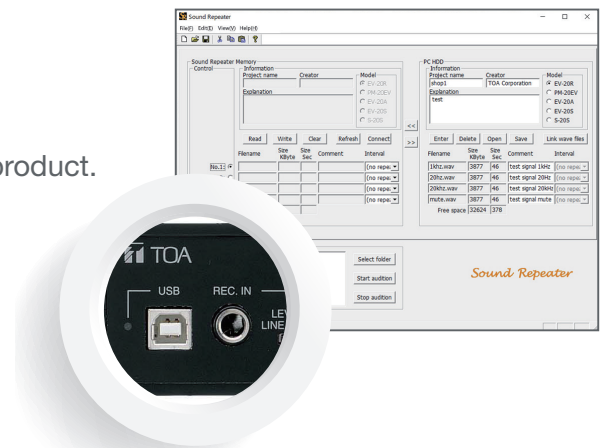as you programmed or being triggered.

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.
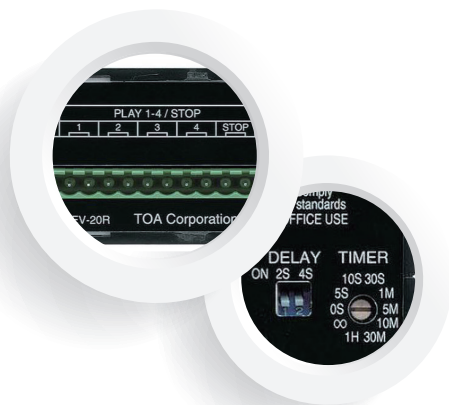
Flexible Announcement Operations

- 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

Program Timer

or

Sensor

EV-20R

Low impedance Speaker

Connected to High Impedance Speakers with External Amplifier

Program Timer

or

Sensor

EV-20R

Amplifier

High impedance Speaker

Applications

Retail Shop

Railway Station

Supermarket

Factory

Advertising

Store Closing Announcement

Safety Instructions

Warning Alert

Cashier-help Paging
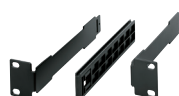
Kiosk Promo

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 kΩ / Line: -20 dB(*1) 10 kΩ, (Mic/Line changeable), unbalanced, phone jack Line input : 0 dB(*1), 10 kΩ, 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 ℃ to 40 ℃
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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