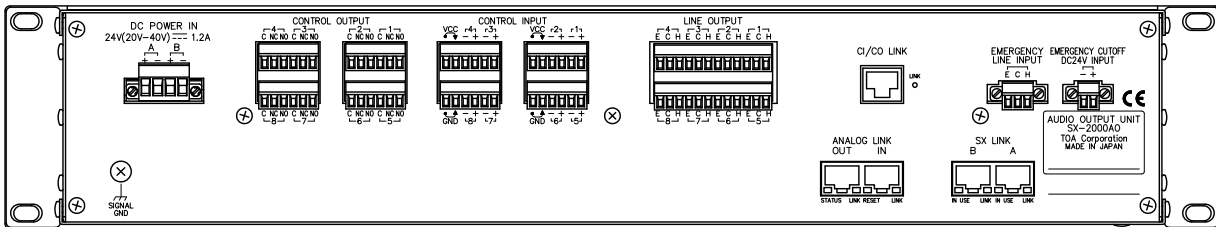# TOA

AUDIO OUTPUT UNIT SX-2000AO

■DESCRIPTION

The SX-2000AO is an audio output of the matrix system and can be mounted in an EIA equipment rack (2U size). Multiple units can be decentralized in a whole system. It is equipped with eight audio outputs, and two inputs can be mixed and output. It is also equipped with eight control inputs, and eight control outputs. The SX-2000AO receives audio signals from the audio input unit via digital transmission, but an analog audio input function (1 channel) enables simultaneous all-zone calls for use in emergency situations. Audio output levels are indicated on the level meters provided for each output channel. Volumes can be adjusted for each channel using the volume controls on the front panel or the SX-2000 software. The volume controls can be locked. Any output channel can be monitored using the internal speaker. One control IN/OUT interface allows the number of control inputs and outputs to be increased. It is equipped with an emergency audio input and a 24 V emergency cutoff input. The SX-2000AO has two power inputs and can support a dual-redundant power supply system.
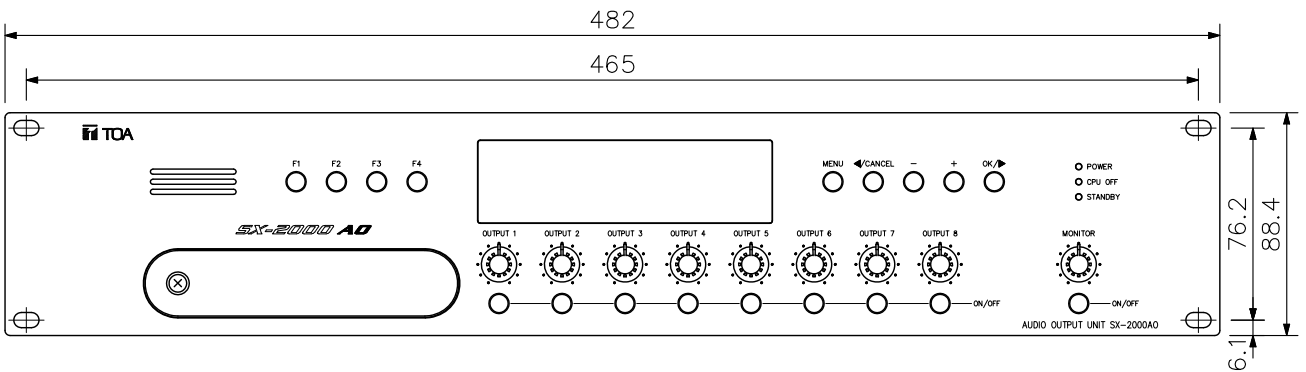
■SPECIFICATIONS

* 0 dB = 1 V

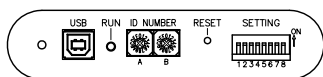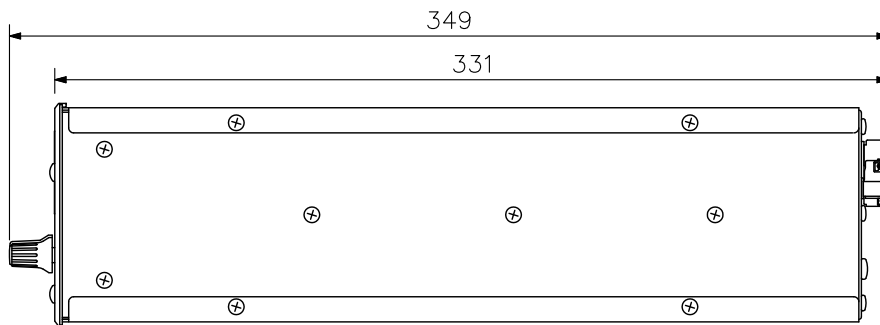|	
Power Source	Usable power supply unit: VX-200PS 24 V DC (operational range: 20 V – 40 V DC) Two power inputs construction enables dual-redundant power supply.
Current Consumption	1.2 A or less (maximum value in the power operating range) 0.79 A or less (when operated on 24 V DC) Note: But except current consumption of the external equipment of which power is supplied from the unit.
Indication	18 alphanumeric characters, Level indication (8 outputs, monitor), Status indicators, Power indicator, Standby indicator, CPU OFF indicator
Operation	Function button, Output level control, Monitor speaker volume control, ON/OFF switch, Operation button
Audio Output	8 outputs, 0 dB*, suitable load: 600 Ω or above, electronically-balanced output changeable into transformer-balanced output (optional), removable terminal block (12 pins), monitoring possible using built-in speaker
Audio Output Characteristic	Frequency response: 20 Hz – 20 kHz Sampling frequency: 48 kHz D/A converter: 24 bit
Emergency Line Input	Emergency signals switched and sent to Input 1 (H, C, E) by relay removable terminal block (3 pins), Emergency audio message is output from all audio equipment connected when the power or an emergency-cutoff 24 V input is cut off.
Emergency-Cutoff 24V Input	1 input, input current: 5 mA or less, removable terminal block (2 pins), cancellation possible using DIP switch
SX Link	
Network I/F	2 100BASE-TX circuits, RJ45 connector, decentralized installation possible
Connection Cable/Device	Shielded Category 5 twisted pair cable (CAT5-STP) To be connected via the switching hub specified by TOA Note: This network must be made completely independent from other LAN.
Maximum Cable Distance	100 m (between this unit and a switching hub)
Analog Link	
Input/Output Connector	Input: 1 input, RJ45 connector, Output: 1 output, RJ45 connector
Connection Cable	Shielded Category 5 twisted pair cable (CAT5-STP) (1 pair of audio wire + 1 pair of control wire (CPU OFF) + 1 pair of control wire (system reset/standby)+ 1 pair of connection check wire)
Maximum Cable Distance	Total length of analog link: 800 m
CI/CO Link	
Usable Unit	SX-2000CI or SX-2000CO
Connector/Cable	1 interface, RJ45 Connector, Shielded Category 5 twisted pair cable (CAT5-STP)
Maximum Cable Distance	800 m
Control Input	8 inputs, no-voltage make contact input, open voltage: 40 V DC or less, short-circuit current: 2 mA, photo coupler input, removable terminal block (6 pins)
Control Output	8 outputs, Form C contact, no-voltage make contact output, relay contact output (withstand voltage: 40 V DC, control current: 2 – 300 mA), removable terminal block (6 pins)
Operating Temperature	0 ℃ to +40 ℃
Operating Humidity	35 % to 80 % RH (no condensation)
Finish	Panel: Aluminum, black, alumite Case: Surface-treated steel plate
Dimensions	482 (W) × 88.4 (H) × 349 (D) mm
Weight	6.2 kg
Accessory	Removable terminal plug (12 pins) ⋯2, Removable terminal plug (6 pins) ⋯8, Removable terminal plug (4 pins) ⋯1, Removable terminal plug (3 pins) ⋯1, Removable terminal plug (2 pins) ⋯1, Rack mounting screw ⋯4
Option	Line transformer: IT-450

TOA Corporation

■APPEARANCE

Rear View

482

465

Front View

Inside of the protective cover

76.2

88.4

6.1

349

331

Side View