# TOA VOICE EVACUATION FRAME 4AB VX-3004F

## ■DESCRIPTION

The VX-3004F is a device designed to control the Voice evacuation announcements of TOA's VX-3000 Series rack-mount type voice evacuation system.
It has audio input terminals and can output the amplified audio signals to the speaker lines when the optional power amplifier modules are mounted.
Compatible with network, the system can be configured in distributed arrangement.
Indicators that show such statuses as fault status and power amplifier signal status are provided.
It has 4 speaker output channels, each of which is provided with A and B lines to enable duplication of the speaker lines. Up to 4 power amplifier modules can be mounted.
The 4-channel amplifier can be used either for zone output or standby use.
As the VX-3004F is equipped with Standby amplifier input/output terminal, the standby amplifier, when mounted, can be shared among VX-3000F units.

## ■SPECIFICATIONS

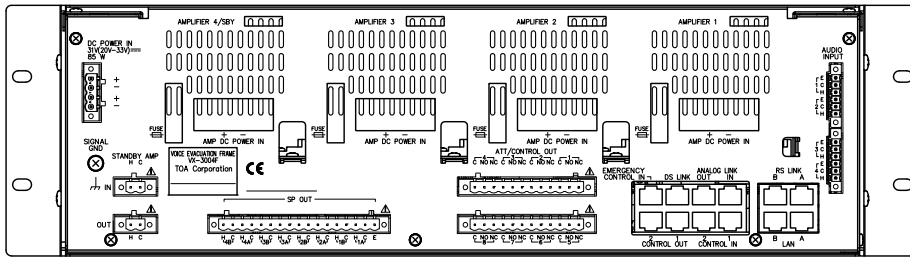| | |
|---|---|
| Power Source | 31 V DC (operating range: 20 – 33 V DC), removable terminal block (4 pins) |
| Power Consumption | 85 W at 31 V DC |
| Indicators | POWER (green) ···1, RUN (green) ···1, EMERGENCY (red) ···1, CPU OFF (red) ···1, LAN A (green) ···1, LAN B (green) ···1, RS LINK A (green) ···1, RS LINK B (green) ···1 FAULT STATUS (yellow)<br> GENERAL ···1, UNIT (∗1) ···1, NETWORK (∗1) ···1, EMG MIC (∗1) ···1, FUSE (∗1) ···1,<br> POWER (∗1) ···1, CPU ···1, ZONE ···8<br>AMPLIFIER<br> PEAK (red) ···4, SIGNAL (green) ···4, OPERATE (green) ···4, POWER (green) ···4 |
| Operation | Fault Control Switch ···2 (ACK/RESET)<br>Test Switch ···1 (LAMP TEST)<br>Setting Switch: ID NUMBER, RESET, IMPEDANCE, Setting (internal front panel) |
| LAN A, B | Number of Connectors: 2 (LAN A, LAN B)<br>Network I/F: 100BASE-TX<br>Network Protocol: TCP, UDP, ARP, ICMP, RTP, IGMP, FTP, HTTP<br>Spanning tree Protocol: RSTP<br>Audio Transmission System: TOA Packet Audio<br>Audio Encoding Method: PCM<br>Audio Sampling Frequency: 48 kHz<br>Audio Quantifying Bit Number: 16 bits<br>Connection Device: Other VX-3004F, VX-3008F, VX-3016F, Switching HUB<br>Connector: RJ45 connector<br>Connection Cable: Category 5 twisted pair cable (CAT5)<br>Number of Stages of Cascade connection: UP to 7<br>Maximum Cable Distance: 100 m (328.08 ft) |
| RS Link A, B | Number of Connectors: 2 (RS LINK A, RS LINK B)<br>Audio input level: 0 dB (∗2)<br>Power feed: Max. 1 A per connector<br>Connector: RJ45 connector<br>Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP)<br>Maximum Cable Distance: 1200 m (3937.01 ft) |
| DS Link | Connection Device: DS LINK of Power supply units<br>Connector: RJ45 connector<br>Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP)<br>Maximum Cable Distance: 5 m (16.4 ft) |
| Analog Link | Number of Connectors: 1 input, 1 output<br>Connection Device: Other VX-3004F, VX-3008F, VX-3016F<br>Connector: RJ45 connector<br>Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP)<br>Maximum Cable Distance: 800 m (2624.67 ft) |
| Control Input 1, 2 | 16 inputs, no-voltage make contact input, open voltage: 24 V DC,<br>short-circuit current: 2 mA<br>Fault Detection System: Short circuit, Open circuit, Method: Voltage detect<br>Connector: RJ45 connector<br>Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP) |
| Emergency Control IN | Input 2: Isolated voltage input, −24 to +24 V<br>Connector: RJ45 connector<br>Connection Cable: Category 5 twisted pair cable (CAT5) |

**TOA Corporation**

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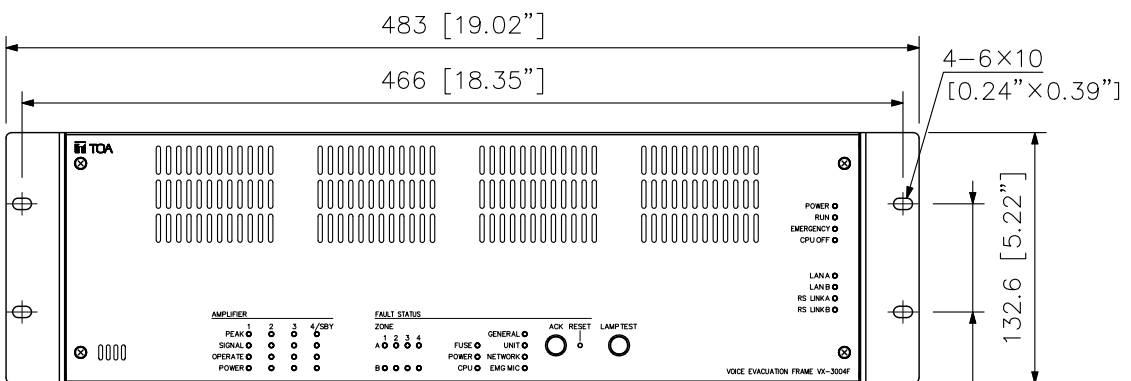| | |
|---|---|
| Control Output 1, 2 | General outputs : 8 with CONTROL OUTPUT 1<br>Exclusive outputs : 3 with CONTROL OUTPUT 2<br>                   GENERAL FAULT, CPU FAULT, CPU OFF<br>No–voltage make contact, electrical contact output,<br>control current: 10 mA, withstand voltage: 28 V DC<br>Connector: RJ45 connector<br>Connection Cable: Shielded Category 5 twisted pair cable (CAT5–STP) |
| ATT/Control Output | 8 outputs, no–voltage make contact, relay contact (NC, NO, C),<br>control current: 2 mA to 5 A, withstand voltage: 125 V AC, 40 V DC<br>Connector: Removable terminal block (12 pins) ···2 |
| Audio Input 1, 2, 3, 4 | 4 inputs<br>Sensitivity:<br> LINE: −20 dB (∗2), MIC: −60 dB (∗2)<br> LINE/MIC (changeable with setting software)<br>Gain Control: volume adjustable with volume control (internal front panel)<br>               −∞ to 0 dB<br>Input Impedance: 47 kΩ, electronically–balanced<br>Frequency Response: 40 Hz − 20 kHz ±1 dB (at DA CONTROL LINK, 0 dB output)<br>Distortion: 1% or less (at DA CONTROL LINK, 0 dB output, 1 kHz)<br>Signal to Noise Ratio: 60 dB or more (at DA CONTROL LINK, A–weighted)<br>Phantom Power Supply: 24 V DC, can be set with setting software<br>Connector: Removable terminal block (6 pins) ···2 |
| Speaker Line | 4 channels (with A/B LINE speaker output), 1 Earth terminal<br>Maximum Voltage/Current: 100 Vrms, 5 Arms<br>Connector: Removable terminal block (17 pins) ···1<br>Fault Detection System: Short circuit, Open circuit, Ground fault,<br>                     Method: Impedance or End of line |
| Standby Amplifier Input/Output | Input: 1,  Output: 1<br>Maximum Voltage/Current: 100 Vrms, 5 Arms<br>Connector: Removable terminal block (2 pins) ···2 |
| Power Amplifier | Number of Amplifiers: 4<br>Connector: DA CONTROL LINK ···4, DA OUTPUT LINK ···4 |
| Operating Temperature | −5 °C to +45 °C (23 °F to 113 °F) |
| Operating Humidity | 90 %RH or less (no condensation) |
| Finish | Panel: Surface–treated steel plate, black, 30 % gloss, paint |
| Dimensions | 483 (W) × 132.6 (H) × 345 (D) mm (19.02″ × 5.22″ × 13.58″) |
| Weight | 7.6 kg (16.75 lb) |
| Accessory | Rack mounting bracket (preinstalled on the unit) ···2, CD (PC setting software) ···1,<br>Removable terminal plug (2 pins) ···2, Removable terminal plug (4 pins) ···1,<br>Removable terminal plug (6 pins) ···2, Removable terminal plug (12 pins) ···2,<br>Removable terminal plug (17 pins) ···1, Ferrite clamp ···2 |

Note: Rack mounting screws are not supplied with the unit.
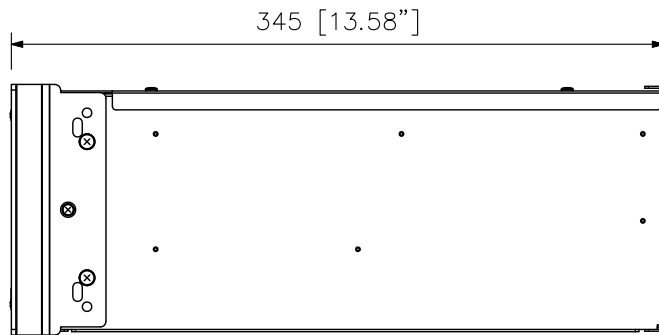
(∗1) By default
(∗2) 0 dB = 1 V

**TOA Corporation**    DWG No: GVX00UB2–2

■APPEARANCE



Rear View

483 [19.02"]

466 [18.35"]

4–6×10
[0.24"×0.39"]

132.6 [5.22"]

57.2 [2.25"]

Front View

345 [13.58"]
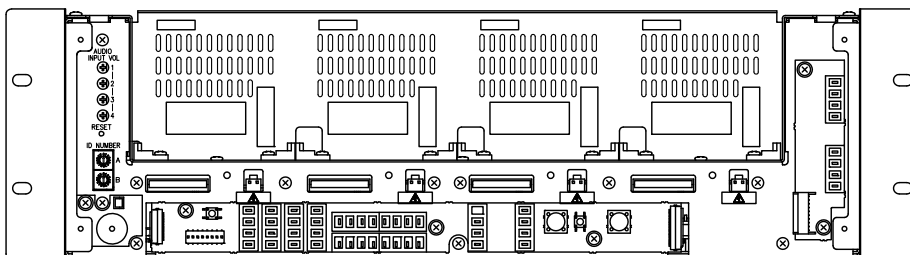
Side View

Front view without front panel

UNIT:mm     SCALE:1/4