

VOICE EVACUATION FRAME 4AB

VX - 3004F(T)

■ 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. It is possible to make an Emergency Warning Broadcast assigned a higher priority than the Emergency broadcast. Two patterns of the Emergency broadcast can be activated simultaneously.

Compatible with network, the system can be configured in distributed arrangement.

Features include the following functions: Digital signal processing function that enables appropriate acoustic adjustment for individual input sound sources and output areas, Feedback suppressor function that automatically suppresses acoustic feedback when it occurs, VOX function that allows start/stop control of broadcast by way of an audio trigger, and ANC function that enables an ambient noise control. (The ANC function distinguishes between the unit's output sound and the ambient noise. The unit's output sound is not detected as noise.) 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

85 W at 31 V DC 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)
FAULT STATUS (yellow) GENERAL1, UNIT (*1)1, NETWORK (*1)1, EMG MIC (*1)1, FUSE (*1)1,
POWER (*1)1, CPU1, ZONE8
AMPLIFIER PEAK (red) …4, SIGNAL (green) …4, OPERATE (green) …4, POWER (green) …4
Fault Control Switch2 (ACK/RESET)
Test Switch1 (LAMP TEST)
Setting Switch: ID NUMBER, RESET, IMPEDANCE, Setting (internal front panel)
Number of Connectors: 2 (LAN A, LAN B)
Network I/F: 100BASE-TX
Network Protocol: TCP, UDP, ARP, ICMP, RTP, IGMP, FTP, HTTP
Spanning tree Protocol: RSTP
Audio Transmission System: TOA Packet Audio
Audio Encoding Method: PCM
Audio Sampling Frequency: 48 kHz
Audio Quantifying Bit Number: 16 bits
Connection Device: Other VX-3004F, VX-3008F, VX-3016F, NX-300, Switching HUB
Connector: RJ45 connector
Connection Cable: Category 5 twisted pair cable (CAT5)
Number of Stages of Cascade connection: UP to 7
Maximum Cable Distance: 100 m (328.08 ft)
Number of Connectors: 2 (RS LINK A, RS LINK B)
Audio input level: 0 dB (*2)
Power feed: Max. 1 A per connector
Connector: RJ45 connector
Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP)
Maximum Cable Distance: 1200 m (3937.01 ft)
Connection Device: DS LINK of Power supply units
Connector: RJ45 connector
Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP)
Maximum Cable Distance: 5 m (16.4 ft)
Number of Connectors: 1 input, 1 output
Connection Device: Other VX-3004F, VX-3008F, VX-3016F
Connector: RJ45 connector Connection Cable: Shielded Category 5 twisted pair cable (CAT5—STP)
Maximum Cable Distance: 800 m (2624.67 ft) 16 inputs, no-voltage make contact input, open voltage: 24 V DC,
short—circuit current: 2 mA
Fault Detection System: Short circuit, Open circuit, Method: Voltage detect
Connector: RJ45 connector
Connection Cable: Shielded Category 5 twisted pair cable (CAT5—STP)
Input 2: Isolated voltage input -24 to $+24$ V
Input 2: Isolated voltage input, -24 to +24 V Connector: RJ45 connector



TOA VOICE EVACUATION FRAME 4AB

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■ SPECIFICATIONS

Threshold: -60 to 0 dB (1 dB steps)	
Settable for each audio input Control Output 1, 2 General outputs: 8 with CONTROL OUTPUT 1 Exclusive outputs: 3 with CONTROL OUTPUT 2 GENERAL FAULT, CPU FAULT, CPU OFF No-voltage make contact, electrical contact output, control current: 10 mA, withstand voltage: 28 V DC Connector: RJ45 connector Connection Cable: Shielded Category 5 twisted pair cable (CAT5-STP) ATT/Control Output 8 outputs, no-voltage make contact, relay contact (NC, NO, C), control current: 2 mA to 5 A, withstand voltage: 125 V AC, 40 V DC Connector: Removable terminal block (12 pins) ···2 Audio Input 1, 2, 3, 4 4 inputs Sensitivity: LINE: -20 dB (*2), MIC: -60 dB (*2) LINE/MIC/ANC Sensor (changeable with setting software) Gain Control: volume adjustable with volume control (internal front panel) -∞ to 0 dB Input Impedance: 47 kΩ, electronically-balanced	
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Frequency Response: 40 Hz - 20 kHz ±1 dB (at DA CONTROLLINK, 0 dB outo	
THE QUELICY NESDOLISE. TO TIZE ZO KIZE ZEE UD TULEDA GONTINO ELINA O UD DUTUI	.+1
Distortion: 1 % or less (at DA CONTROL LINK, 0 dB output, 1 kHz)	1()
Signal to Noise Ratio: 60 dB or more (at DA CONTROL LINK, A—weighted)	
Phantom Power Supply: 24 V DC, can be set with setting software	
Connector: Removable terminal block (6 pins) ···2	
Digital Signal Processing	
Feedback Suppression 7 filters (auto),	
Function Settable for each audio input and RS LINK (A/B)	
Equalizer/Filter 3 bands for each audio input and RS LINK (A/B),	
6 bands for each amplifier output	
Parametric equalizer: 20 Hz - 20 kHz, ±15 dB, Q: 0.267 - 69.249	
Filtering: High-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct Low-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct	
Low-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct High shelving filter 6 - 20 kHz, ±15 dB	
Low shelving filter 20 - 500 Hz, ±15 dB	
Notch filter (amplifier output only) 20 Hz - 20 kHz, Q: 8.651 - 69	249
All—pass filter (amplifier output only) 20 Hz — 20 kHz, Q: 0.267 — 69	
Horn equalizer (amplifier output only) 20 kHz, 0 to +18 dB (0.5 dB s	eps)
Compressor Threshold: -20 to 0 dB (1 dB steps)	
Ratio: 1:1, 1.1:1, 1.2:1, 1.3:1, 1.5:1, 1.7:1, 2:1, 2.3:1, 2.6:1, 3:1, 4:1,	
5:1, 7:1, 8:1, 10:1, 12:1, 20:1, ∞:1	
Attack time: 0.2 ms - 5 s, Release time: 10 ms - 5 s	
Gain: $-\infty$ to +10 dB, Knee type: hard knee, middle knee, soft knee	
ANC Amplifier output level control, Automatic sensor input reference level measuring,	
ANC (Ambient Noise Control) Amplifier output level control, Automatic sensor input reference level measuring, Sensor input reference level fine adjustment	
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VOICE EVACUATION FRAME 4AB

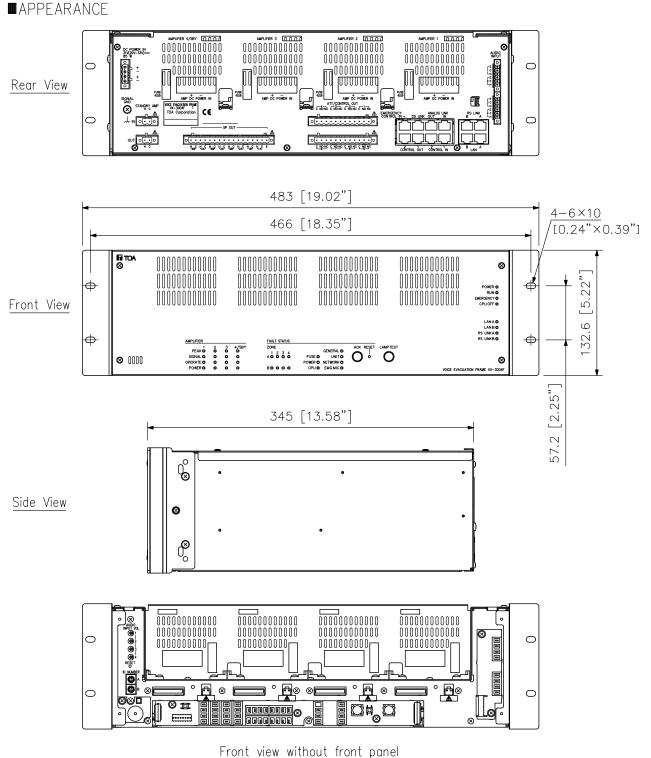
VX - 3004F(T)

■ SPECIFICATIONS

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,
	Removable terminal plug (2 pins)2, Removable terminal plug (4 pins)1,
	Removable terminal plug (6 pins)2, Removable terminal plug (12 pins)2,
	Removable terminal plug (17 pins) ···1, Ferrite clamp ···3

Note: Rack mounting screws are not supplied with the unit.

(*1) By default (*2) 0 dB = 1 V



UNIT: mm

SCALE: 1/4