

# VX-3016F

## VOICE EVACUATION FRAME 16SS

The VX-3016F frame is one of three system managers of TOA's VX-3000 series rack-mount type public address and voice evacuation system certified according to the European Standard EN 54-16. It provides 16 speaker line outputs/zones. Either one amplifier drives all 16 line outputs/zones or two amplifiers drive 8 line outputs/zones each. Up to three additional VX-3016F frames without amplifiers can be added to expand the number of zones of the version with one amplifier installed. The amplifier modules can be easily mounted and removed. Up to two power amplifier modules of different wattages can be mounted, of which the second one can either be used for the zones or as a standby amplifier. The standby amplifier, when mounted, can be shared among other VX-3000F units. Each amplifier channel has the following DSP functions: different filter types (PEQ, HPF, LPF, shelving, CD-horn EQ, notch), compressor and delay that enables appropriate acoustic adjustment for any broadcast area. The smart ANC function enables the control of ambient noise and is not affected by the audio signal it controls. Therefore, the sensor's installation location is not critical. The monitoring of the speaker lines can be selected between impedance monitoring with selectable pilot tone or by end-of-line modules. The VX-3016F has 4 balanced audio input terminals from microphone up to line level sensitivity, with phantom power selection for microphone use. The inputs can also be set for receiving an emergency broadcast from another VA system of higher priority and broadcast it under the condition of the emergency mode. Up to 8 remote microphones can be connected via RJ45 ports; two of which can be emergency microphones. The following DSP functions are available for each input channel: different filter types (PEQ, HPF, LPF, shelving) and compressor. Helpful features such as feedback suppressor or voice-controlled broadcast activation (VOX) enhance the usability of the system.



Article number: VX-3016F  
 Alternative products: VX-3004F, VX-3008F

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### Specifications

Indicator	power, run, CPU off, LAN status, RM status emergency status faults: general, network, EMG microphone, fuse, power, CPU, zones amplifier status: signal, peak, operate, power
Power source	31 V DC operating range: 20 – 40 V DC)
Audio input	4 balanced channels, nominal sensitivity between -60 dBV and -20 dBV, can be attenuated by potentiometer behind front panel, phantom power selectable
Frequency response	40 Hz - 20 kHz (±1 dB)
Power source	31 V DC operating range: 20 – 40 V DC)
Distortion	< 1 % (at 1 kHz)
Power consumption	max. 90 W at 31 VDC
Control input	16 (by contact) + 2 (by 24 VDC polarity change)
Frequency response	40 Hz - 20 kHz (±1 dB)
Power consumption	max. 90 W at 31 VDC
Control output	Open collector: 8 + 3 (CPU OFF), Relay (125 VDC, 5 A): 16
S/N ratio	60 dB (or more)
Control input	16 (by contact) + 2 (by 24 VDC polarity change)
Control output	Open collector: 8 + 3 (CPU OFF), Relay (125 VDC, 5 A): 16
Input / Output	Speaker Output: 16 zones Audio Input: 4 (Line: -20 dBV / Mic: -60 dBV, phantom power selectable)
Indicator	power, run, CPU off, LAN status, RM status emergency status faults: general, network, EMG microphone, fuse, power, CPU, zones amplifier status: signal, peak, operate, power
Connection	RJ45: control inputs x 2, control outputs (open collector) x 2, DS link x 1, remote microphones x 2, LAN x 2, analog link x 2 Removable screw terminals: control outputs (relay), zone outputs, standby amplifier bus, extension links, power input, audio inputs
S/N ratio	60 dB (or more)
Connection	RJ45: control inputs x 2, control outputs (open collector) x 2, DS link x 1, remote microphones x 2, LAN x 2, analog link x 2 Removable screw terminals: control outputs (relay), zone outputs, standby amplifier bus, extension links, power input, audio inputs
Distortion	< 1 % (at 1 kHz)
Finish	Steel plate, surface-treated, 30% gloss, paint, black,
Operating humidity	90% or less
Operating temperature	-5°C to +45°C



VX-3000 Series

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Appearance