
TOA INTERCOM SYSTEMS

SURFACE-MOUNTED MASTER STATION AND HANDSET UNIT

HF-670M/HS-670



DESCRIPTION

The TOA HF-670M heavy-duty industrial-use master station is designed to operate with maximum reliability in extreme environments, such as high-noise or dust-filled areas where an ordinary intercom station cannot be used. It provides hands-free intercom communications, as well as handset operation when used with the HS-670 handset unit. The HF-670M station can communicate with all other master stations in the system. The HF-670M is equipped with 13 dialing keys, an in-use lamp for eavesdropping protection, and pre-adjustable microphone sensitivity and output level volume controls. When it is used with a separate (PAM-05) booster amplifier and (DS-100) DC power supply unit, the HF-670M can perform high-level paging.

*The HF-670M does not have a built-in speaker. A separate speaker such as the TC-101 A is required.

FEATURES

1. Rugged, heavy-duty master station designed for industrial use.
2. Splashproof construction.
3. HS-670 handset unit enables private conversations.
4. Powerful paging capability for high noise level areas when used with external loudspeaker, plus optional PAM-05 booster amplifier and DS-100 DC power supply unit.
5. Large, easily visible in-use lamp.
6. Large keys for operational ease.
7. Surface-mounted type.
8. Pre-fixed volume controls to adjust microphone sensitivity and speaker sound level.

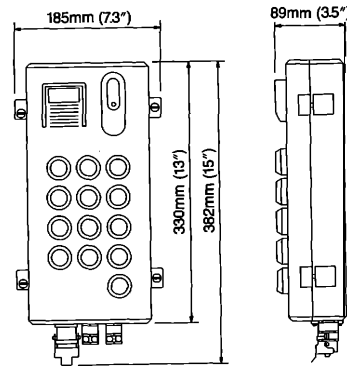
SPECIFICATIONS

Microphone Impedance & Sensitivity	1k-ohm/-68dB omnidirectional electret condenser microphone
Speaker Impedance	8 ohms (External speaker is required)
Line Impedance	600 ohms balanced
Audio Frequency Range	500Hz to 3.5kHz
Calling Tone Signal Output Level	Depends on external speaker provided
Current Consumption	18mA (LED), 83mA (Lamp)
Operating Temperature	0°C to 60°C (32°F to 140°F)
Dimensions (W x H x D)	185 x 382 x 89mm 7.3 x 15.0 x 3.5 inches
Weight	3.4kg (7.5 lbs.)

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The master station shall be a splashproof surface-mounted TOA HF-670M and shall be capable of reliable hands-free operation in extremely noisy or dusty areas. Private conversations shall be made possible by use of the HS-670 handset unit. The master station shall be able to communicate with all master stations in the system. The HF-670M shall be equipped with 13 operating keys, eavesdropping

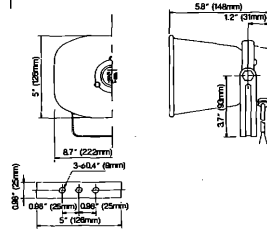
APPEARANCE AND DIMENSIONAL DIAGRAM



protection with an in-use lamp, and pre-adjustable microphone level sensitivity and output level volume controls. A separate speaker such as the TOA TC-101A shall be required. High level paging shall be made possible in conjunction with the TOA PAM-05 booster amplifier unit and the DS-100 DC power supply unit.

OPTIONAL ACCESSORIES

TC-101A Paging Horn Speaker for HF-670M

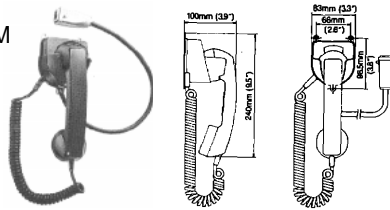


SPECIFICATIONS

Input	10 watts
Impedance	8 ohms
S.P.L. (at 1kHz)	120dB/10W/m
Frequency Response	315Hz to 12.5kHz
Dispersion	188° horizontal, 190° vertical
Sensitivity as Microphone (0dB—1mW/10 dynes/cm)	-24dBm
Weight	0.8kg (1.8 lbs.)
Finish	Horn Flare: Aluminum, gray Inner Horn & Rear Cover: ABS resin, dark gray Bracket and Bolts: Stainless steel
Dimensions	Horn Flare (W x H): 172 x 126mm (6.8 x 5.0 inches) Length: 148mm (5.8 inches)

*The TC-151A (15W) and TC-301A (30W) paging horn speakers are also available for the use with the TC-101A.

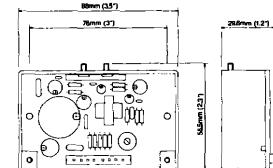
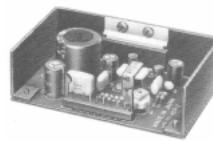
HS-670 Handset Unit for HF-670M



SPECIFICATIONS

Microphone Impedance	500 ohms
Speaker Impedance	200 ohms
Output Level	-72dB
Power Consumption	3.3mA
Material	ABS resin
Weight	550g (1.21 lbs.)

PAM-05 5W Booster Amplifier for HF-670M

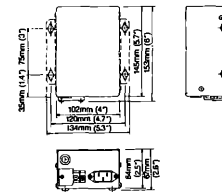


The PAM-05 is a 5W booster amplifier for the external PA speaker on the HF-670M industrial-use hands-free master station.

SPECIFICATIONS

Power Source	DC + 24V to be supplied externally
Current Consumption	0.1A or less at no signal 0.5A or less at rated output
output	5 watts (8 ohms load)
Frequency Response	Within 30Hz—10kHz, ±3dB
Input Reception	2.8V (Highest vol.)
Input Impedance	2k ohms, balanced
Speaker Impedance	4 to 8 ohms
Distortion	Less than 3%

DS-100 DC Power Supply Unit for HF-670M



The DS-100 DC power supply unit is required on the HF-670M industrial-use hands-free master station when turning on the display lamp or using the PAM-05 5W booster amplifier unit.

SPECIFICATIONS

Power Source	AC mains, 50/60Hz
Voltage Output	DC 22V
Current Output	0.5A
Input Capacity	Standard: 17VA, Max.: 20VA or less
Finish	Case: Leather steel plate (Black)
Weight	1.3kg (2.9 lbs.)

*Specifications are subject to change without notice