



# EM-800/700/600 WIRED MICROPHONES



***Microphones designed with superior voice clarity  
for speech applications  
ensure optimal intelligibility.***



***Versatile high-performance microphones  
that can satisfy all user  
speech-application needs.***

TOA introduces a new line of microphones that offer superb sound quality and reliability. Featuring extended high-frequency response to enhance clarity and high resistance to ambient noise, speech reproduction is exemplary.

Stylishly designed and compact,  
the new TOA microphones comprise the EM-800 Gooseneck,  
the EM-700 Boundary, and the EM-600 Flush Mount Boundary models.



## EM-800

### Gooseneck Microphone

- Ideal for speech applications including meetings, lectures, and religious services.
- Electret condenser microphone element with cardioid pattern for focused pickup.
- Excellent high-frequency response of 60 – 20k Hz delivers clear output even through a PA system.
- High sensitivity (–35dB) provides a satisfying tonal response.
- Gooseneck with two adjustment points allows more flexible microphone positioning angles.
- Rejection of undesirable off-axis sound minimizes possible feedback.
- Phantom power range of 9 to 52 volts enhances operational versatility.



ST-800  
Microphone Stand (option)



## EM-700

### Boundary Microphone

- Ideal for speech and recording applications at meetings, lectures, and religious services.
- Electret condenser microphone element with cardioid pattern for focused pickup.
- Design, optimized to deliver best performance when used on a desk.
- Slim, stylish design suits interior decor.
- Rejection of undesirable off-axis sound minimizes possible feedback.
- Low-cut filter switch prevents interference from ambient noise from being picked up.
- Wide frequency range of 35 – 20 kHz provides well-balanced sound with clarity and a satisfying tonal response.
- Phantom power range of 9 to 52 volts enhances operational versatility.



## EM-600

### Flush-Mount Boundary Microphone

- Ideal for conference room recording and security monitoring.
- Electret condenser microphone element with omnidirectional pattern for comprehensive pickup.
- Unobtrusive design allows easy flush-mounting in walls, ceilings, and desktops.
- Optimized to deliver best performance when used on a desk or attached to a ceiling.
- A 50 Hz low-cut filter reduces intrusive noise, such as air conditioner rumble or door opening/closing.
- Two rubber isolation rings are provided as an accessory serving to reduce vibration.
- Wide frequency range of 30 – 20 kHz provides well-balanced sound with clarity and a satisfying tonal response.
- Phantom power range of 9 to 52 volts enhances operational versatility.

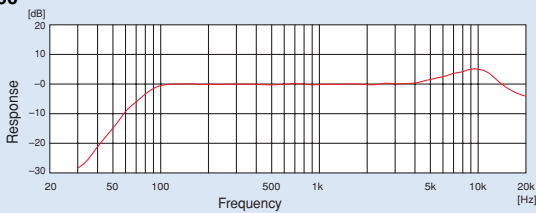
# SPECIFICATIONS

Model	EM-800 Gooseneck Microphone	ST-800 Microphone Stand	EM-700 Boundary Microphone	EM-600 Flush-Mount Boundary Microphone
<b>Element</b>	Electret condenser	—	Electret condenser	Electret condenser
<b>Polar Pattern</b>	Cardioid	—	Cardioid	Omnidirectional
<b>Rated Impedance</b>	120 Ω, balanced	—	120 Ω, balanced	120 Ω, balanced
<b>Rated Sensitivity</b>	-35 dB (1kHz 0 dB = 1 V/Pa)	—	-33 dB (1k Hz 0 dB = 1 V/Pa)	-36 dB (1k Hz 0 dB = 1 V/Pa)
<b>Phantom Power</b>	9 – 52V DC	—	9 – 52V DC	9 – 52V DC
<b>Frequency Response</b>	60 Hz – 20kHz	—	35 Hz – 20kHz	30 Hz – 20kHz
<b>Low Cut</b>	—	—	100 Hz, -12 dB/oct	—
<b>Input Connector</b>	—	XLR-3-31 equivalent	—	—
<b>Output Connector</b>	XLR-3-12 equivalent	XLR-3-32 equivalent	XLR-3-12 equivalent	XLR-3-12 equivalent
<b>Cable Length</b>	—	—	7.5m (24.61 ft)	—
<b>Operating Temperature</b>	0°C to +40°C (32°F to 104°F)	—	0°C to +40°C (32°F to 104°F)	0°C to +40°C (32°F to 104°F)
<b>Finish</b>	Body, Shaft: Copper alloy, black, semi-gloss, paint	Die-cast zinc, black, mat finish, paint	Body: Die-cast aluminum, black, mat finish, paint Punched net: Surface-treated steel plate, black, mat finish, paint	Body: Steel, white, semi-gloss, paint Head: Zinc-plated steel wire, white, semi-gloss, paint
<b>Dimensions</b>	ø12 × 420mm (ø0.47" × 16.54")	115 (W) × 40 (H) × 124 (D)mm (4.53" × 1.57" × 4.88")	83 (W) × 23 (H) × 83 (D)mm (3.27" × 0.91" × 3.27") (cord excluded)	ø28 × 68mm (ø1.1" × 2.68")
<b>Weight</b>	135g (0.3 lb)	715g (1.58 lb)	290g (0.64 lb)	85g (0.19 lb)
<b>Accessory</b>	Windscreens × 1	—	—	Rubber Isolation Ring × 2, M20 Nut × 1
<b>Applicable Stand</b>	Microphone Stand: ST-800 (option)	—	—	—

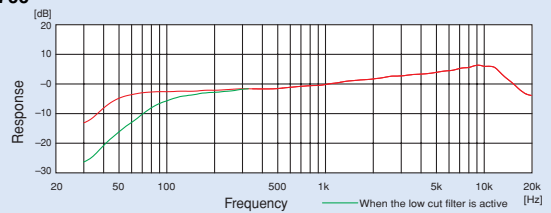
## CHARACTERISTIC DIAGRAMS

### Frequency Response (1W/1m)

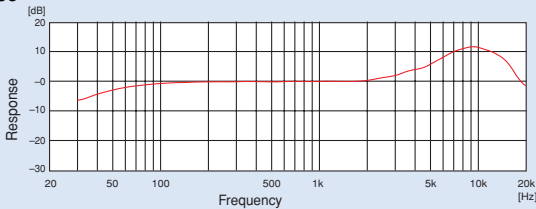
EM-800



EM-700

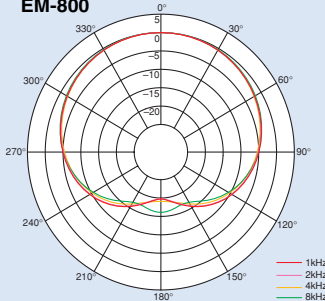


EM-600

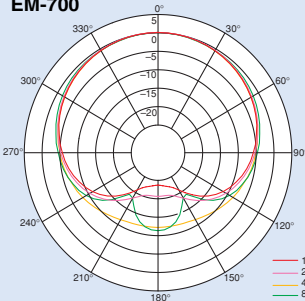


### Polar Response

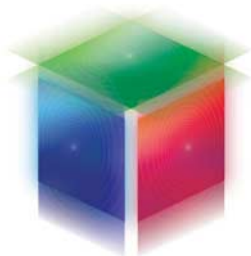
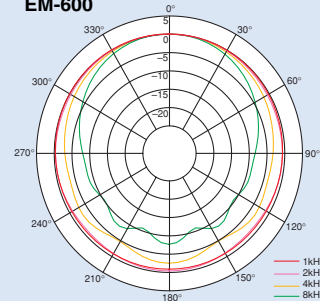
EM-800



EM-700



EM-600



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