



EM-800/700/600/410 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, the EM-600 Flush Mount Boundary, and the EM-410 Lavalier 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

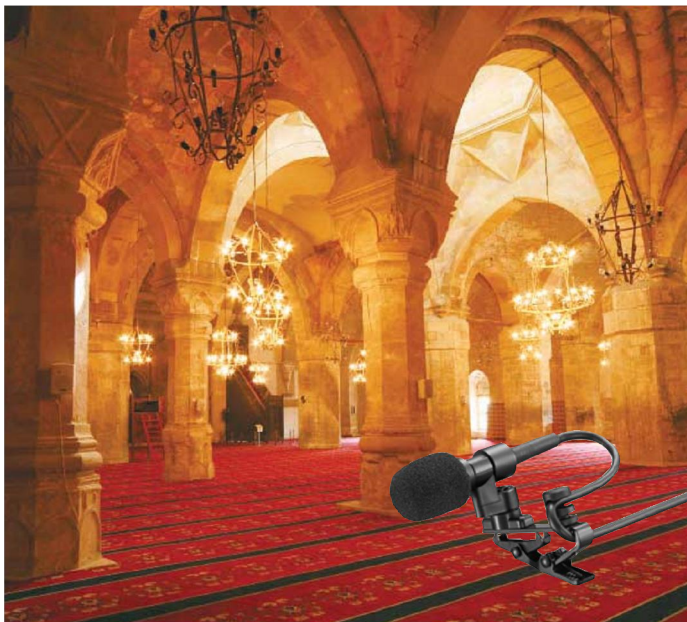
- Ideal for speech and recording applications at meetings, lectures, and religious services.
- Electret condenser microphone element with cardioid pattern for focused pickup.
- Design, optimized to deliver best performance when used on a desk.
- Slim, stylish design suits interior decor.
- Rejection 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.



EM-410

Lavalier Microphone

- Ideal for voice-oriented applications such as lectures, presentations and religious services.
- Compact electret condenser microphone element with hypercardioid pattern for highly focused pickup.
- Designed for best performance when attached to the chest area.
- The cable holder minimizes noise from cable and clothes rustling.
- Capsule rotates 360 degrees, for optimal pickup even when worn on a lapel.
- Phantom power range of 9 to 52 volts enhances operational versatility.

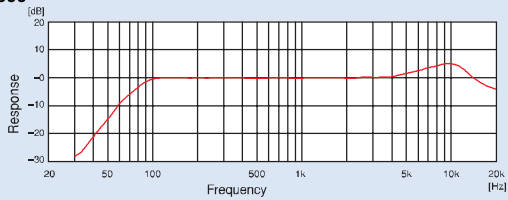
SPECIFICATIONS

| Model | EM-800 Gooseneck Microphone | ST-800 Microphone Stand | EM-700 Boundary Microphone | EM-600 Flush-Mount Boundary Microphone | EM-410 Lavalier Microphone |
|------------------------------|---|--|---|---|--|
| Element | Electret condenser | — | Electret condenser | Electret condenser | Electret condenser |
| Polar Pattern | Cardioid | — | Cardioid | Omnidirectional | Hypercardioid |
| Rated Impedance | 120 Ω, balanced | — | 120 Ω, balanced | 120 Ω, balanced | 120 Ω, balanced |
| Rated Sensitivity | -35 dB (1kHz 0 dB = 1 V/Pa) | — | -33 dB (1kHz 0 dB = 1 V/Pa) | -36 dB (1kHz 0 dB = 1 V/Pa) | -47 dB (1kHz 0 dB = 1 V/Pa) |
| Phantom Power | 9 – 52V DC | — | 9 – 52V DC | 9 – 52V DC | 9 – 52V DC |
| Frequency Response | 60 Hz – 20kHz | — | 35 Hz – 20kHz | 30 Hz – 20kHz | 100 Hz – 15kHz |
| Low Cut | — | — | 100 Hz, -12 dB/oct | — | — |
| Input Connector | — | XLR-3-31 equivalent | — | — | — |
| Output Connector | XLR-3-12 equivalent | XLR-3-32 equivalent | XLR-3-12 equivalent | XLR-3-12 equivalent | Blanced-phone plug |
| Cable Length | — | — | 7.5m (24.61 ft) | — | 5.0m (16.4 ft) |
| Operating Temperature | 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) | 0°C to +40°C (32°F to 104°F) |
| Finish | 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 | Body: Copper alloy, black, semi-gloss, paint |
| Dimensions | ∅12 × 420mm (∅0.47" × 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) | ∅28 × 68mm (∅1.1" × 2.68") | ∅8.9 × 28.6mm (∅0.35" × 1.13") (cord excluded) |
| Weight | 135g (0.3 lb) | 715g (1.58 lb) | 290g (0.64 lb) | 85g (0.19 lb) | 100g (0.22 lb) |
| Accessory | Windscreen × 1 | — | — | Rubber Isolation Ring × 2, M20 Nut × 1 | Windscreen × 1, Clip Holder × 1 |
| Applicable Stand | Microphone Stand: ST-800 (option) | — | — | — | — |

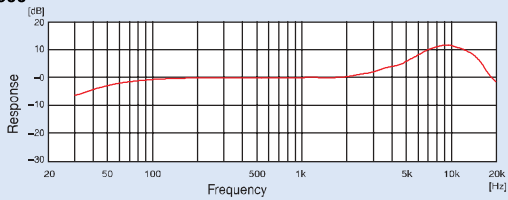
CHARACTERISTIC DIAGRAMS

Frequency Response (1W/1m)

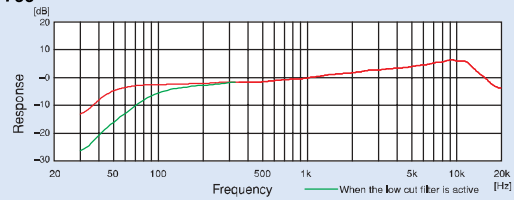
EM-800



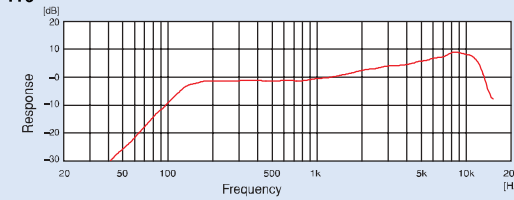
EM-600



EM-700

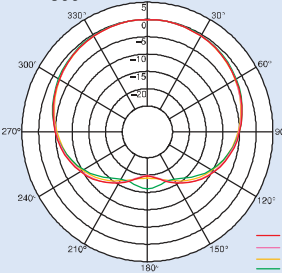


EM-410

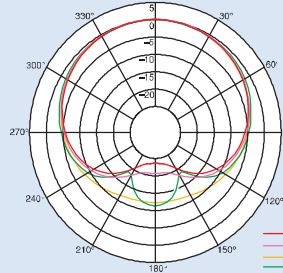


Polar Response

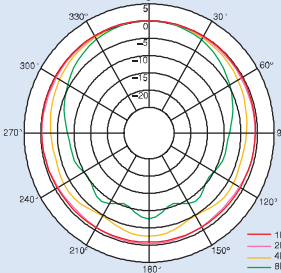
EM-800



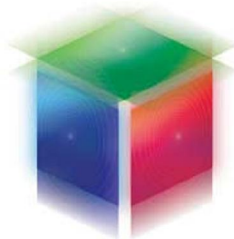
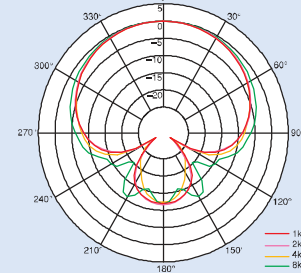
EM-700



EM-600



EM-410



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