

DIGITAL ARRAY MICROPHONE

Cascading Omnidirectional Digital Array Microphone

Technical reference for the BRONX M702 / M702C — a 6-microphone 360° digital array microphone with blind beamforming, smart audio algorithms and PoE cascading of up to six units, covering the demand of a large conference room.

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01 · ARRAY MICROPHONE

Cascading Omnidirectional Digital Array Microphone

6-microphone 360° array with blind beamforming, smart audio algorithms and PoE cascading – up to 3 m pickup.

Plug-and-play cascade array microphone with minimal configuration. Up to six units cascade over PoE for even, distributed pickup across a large conference room, while blind beamforming and smart audio algorithms deliver clear, natural, double-talk sound. Available in black (M702) and fabric silver (M702C).



MIC ARRAY	PICKUP	CASCADE	SAMPLING	
6 360° omni	3 m	6 PoE units	32 kHz	
 6 Microphone Array	 Audio Algorithm	 6 level Cascade	 Double Talk	 PoE

HEADLINE CAPABILITIES

- 6-mic 360° ring array
- AEC · ANS · AGC + de-reverberation
- Double-talk without suppression
- Blind beamforming, auto speaker alignment
- Up to 6-unit PoE cascade
- Desktop / ceiling / wall / lifting install

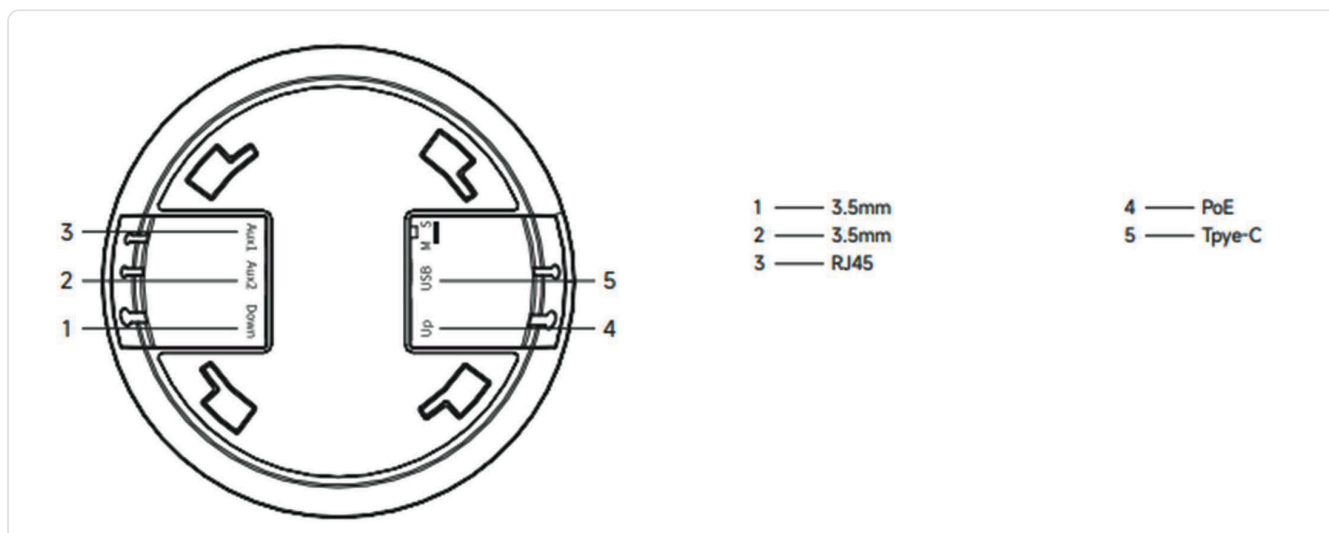
01.1 Features

ARRAY · AI · CASCADE

- Digital array microphone — high-SNR ring array for clear long-distance pickup, so the speaker can move freely around the room.
- Blind beamforming — precise positioning and an adaptive sound field for voice enhancement and stronger anti-interference.
- Smart audio algorithms — ultra-low-delay processing with voice tracking, noise reduction, echo cancellation, AGC and de-reverberation for clear natural sound.
- PoE cascading — cascade multiple PoE cables for distributed, even pickup across large and medium rooms.
- Standard interface, plug-and-play — hot-adhesive fabric wrap adapts colour and pattern to blend into any décor.
- Flexible installation — desktop, lifting, wall and ceiling mounting for fast deployment and low maintenance.

01.2 Interfaces & Installation

PORTS · MOUNTING



Underside ports — 1 & 2: 3.5 mm AUX; 3: RJ45 cascade; 4: PoE; 5: USB Type-C. Desktop, lifting, wall and ceiling mounting supported.

02.1 Audio Parameters

ARRAY · PICKUP · PROCESSING

Microphone type	Digital array microphone
Microphone array	6 omnidirectional microphones in a circular array for 360° pickup
Pickup distance	3 m
Sensitivity	-38 dBFS
Signal-to-noise ratio	65 dB(A)
Frequency response	50 Hz – 16 kHz
Sampling rate	32K sampling, HD broadband audio
Echo cancellation (AEC)	Support
Noise suppression (ANS)	Support
Gain control (AGC)	Support

02.2 Cascade & Hardware I/O

NETWORK · USB · AUDIO

Cascade mode	PoE network cable (up to 6 units)
Network interface	RJ45 up / down cascade network interface
USB interface	USB Type-C, UAC1.0 — audio, software upgrade & parameter configuration
Analog audio	AUX1, AUX2 line audio input and output

02.3 Generic Specification

POWER · PHYSICAL

Power input	PoE cascade 48 V (IEEE 802.3at) / USB 5 V 500 mA (single)
Supported systems	Windows / Mac / Linux
Installation method	Desktop, lifting, wall-mounted, ceiling-mounted
Dimensions	Φ 170 mm × H 40 mm
Net weight	370 g

Disclaimer: due to continuous product development and upgradation, the specifications and image of the product may change without prior intimation.

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DOCUMENT

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REVISION

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