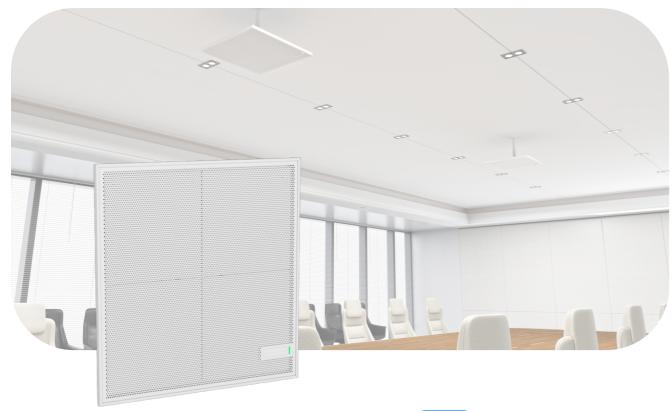
# ACM-582 | AI CEILING MICROPHONE

Relacart's latest innovation, the ACM-582 Al Ceiling Microphone, combines cutting-edge Al technology and advanced acoustic engineering to deliver unparalleled audio quality for any space. This ceiling-mounted solution is not just a technological breakthrough but a versatile tool for environments like conference rooms, classrooms, and auditoriums, ensuring every word is captured with precision and clarity.







## Product Features



#### 360° Al Noise Reduction

• Removes background noise from both uplink and downlink communications while preserving voice clarity, enabling natural conversations in any setting.



#### Full-Duplex Acoustic Echo Cancellation

· Eliminates echoes even during simultaneous speech, ideal for low Signal-to-Noise Ratio (SNR) environments without relying on mechanical design.



#### Intelligent De-reverberation

• Utilizes Deep Neural Networks (DNN) to eliminate echoes in reflective spaces (e.g., concert halls), enhancing Direct-to-Reverberant Ratio (DRR) for crystal-clear voice reproduction



#### **Dynamic Feedback Suppression**

• Integrated AI processor instantly identifies and suppresses narrow band feedback between speakers and microphones, ensuring stable, distortion-free audio.



### Product Parameters



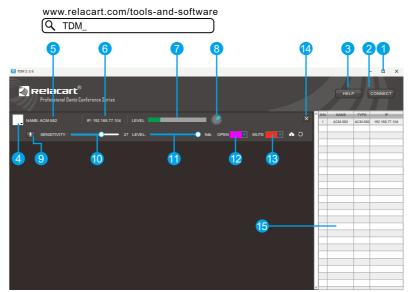
Coverage Area:	25×25 ft (7.6×7.6 m)	
Coverage Type:	Automatic	
Power Requirements:	PoE/PoE+ (IEEE 802.3af/at)	
Power Consumption:	Max 3W	
Control Software:	TDM	
Cable Requirement:	Cat5e or higher	
	(shielded recommended)	
Connector Type:	RJ45	
Plenum Rating:	UL2043	
	(suitable for air-handling spaces)	
Dust Protection:	IEC 60529 IP5X	
Operating Temperature:	-5°C (23°F) to 40°C (104°F)	
Storage Temperature:	-25°C (-13°F) to 60°C (140°F)	

Microphone Element:	5 MEMS arrays
Frequency Response:	100Hz – 8kHz
AES67/Dante Output – Channels:	1 channel
AES67/Dante Output – Sample Rate:	48kHz
AES67/Dante Output – Bit Depth:	24-bit
Sensitivity (at 1kHz):	-1.5dBFS/Pa
Max SPL:	96dB SPL
SNR (ref. 94dB SPL, 1kHz):	75dB (A-weighted)
Latency (excl. Dante latency):	48ms
Self-Noise:	22dB SPL (A-weighted)
Dynamic Range:	75dB
Dimensions(mm):	582(W)×582(H)×52(D)

Digital Signal Processing: Acoustic Echo Cancellation (AEC) Al Noise Reduction

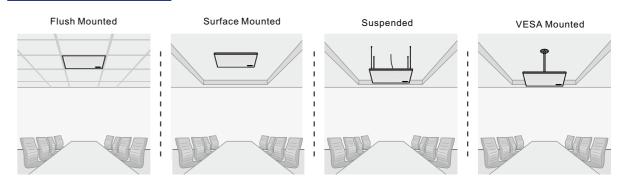
Auto Gain Control (AGC) Mute Function

#### TDM software



- 1. Download the software, Double-click the software icon to open the software.
- 2. Click on the CONNECT key at the top right of the software interface to connect.
- 1 TDM software window (Minimize/Enlarge/Close)
- 2 Device connect button 3 Device help button
- 4 Microphone outline
- 6 Microphone name
- 6 IP address
- 7 Microphone level status
- 8 Microphone pattern
- 9 Microphone mute switch
- 10 Mic Gain
- 11 Microphone main level gain
- 12 Microphone open state color custom selection
- 13 Microphone mute status color custom selection 14 Close button of microphone function window
- 15 Microphones list

#### **Installation options**



\*此时应遵守制造商的安装数据,注意不要将 ACM-600 话筒安装在天花板上的灯具或其他电气设备旁边。











