



**Enhancing
sound**

for business success

AM-CF1

Integrated Audio Collaboration System



Experience natural conversations across multiple locations.

AM-CF1 Integrated Audio Collaboration System

Microphone + Stereo Soundbar + DSP

The AM-CF1 Integrated Audio Collaboration System is a cutting-edge audio conferencing technology. As a professional steerable microphone array system with integrated stereo soundbar, the AM-CF1 is the perfect all-in-one conferencing solution for small to medium size conference spaces with great return on investment. Built-in AEC (Acoustic Echo Cancellation), NC (Noise Cancellation), and EQ (Equalizer) maximize performance making collaboration between remote sites a very natural experience.



Connect your laptop to the AM-CF1 with a single USB cable

Configuration Example

- 3rd party controls are available
- Analog audio output (Line Level) : Increase your hearing range by connecting the AM-CF1 to an external amplifier

* Note: The AM-CF1 supports most USB cameras.



Key Features

BEAM STEERING ARRAY MICROPHONE TECHNOLOGY

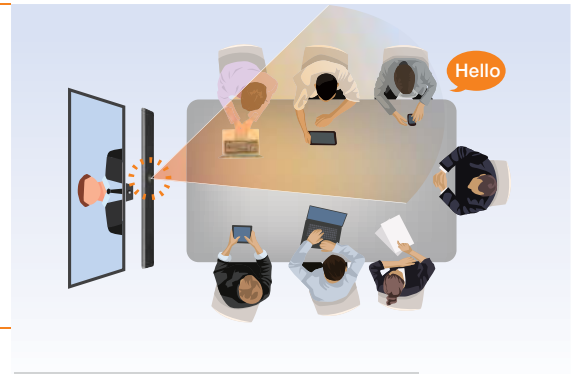
A line array with eight microphone elements enables to track sound automatically. TOA's proprietary DSP algorithm realizes a narrow microphone beam of 50 degrees to steer and efficiently focus on the targeted sound. It helps to clearly pick up the voice of a particular participant in the conference whether the person is positioning right next to the microphone or at the far end of the table.

REAL-TIME ILLUMINATED BEAM STEERING

Seven LED indicators behind the front grille illuminate the soundbar to visually monitor presenter location, microphone gain level, and microphone mute status.

GUI FOR EASY SETUP AND CONTROL

The browser interface is available to make adjustments to parameter settings such as mixer volume controls, audio processing, LED indicator management, control I/O, presets, and voice tracking field adjustments for coverage within a 20-foot (6m) range.



Audio Mixer



Coverage Area Setting



Key Benefits

- The AM-CF1 creates the most natural communication environment for team collaboration between remote locations. With the integrated array mic and soundbar positioned right below the display, participants can talk with each other just as they would in a normal conversation.
- Presentations become impactful with professional grade high-quality audio delivered via stereo soundbar and subwoofer output.
- For impromptu meetings, a smartphone can be quickly paired with the AM-CF1 via Bluetooth connectivity for exceptionally clear communication.

Product Features

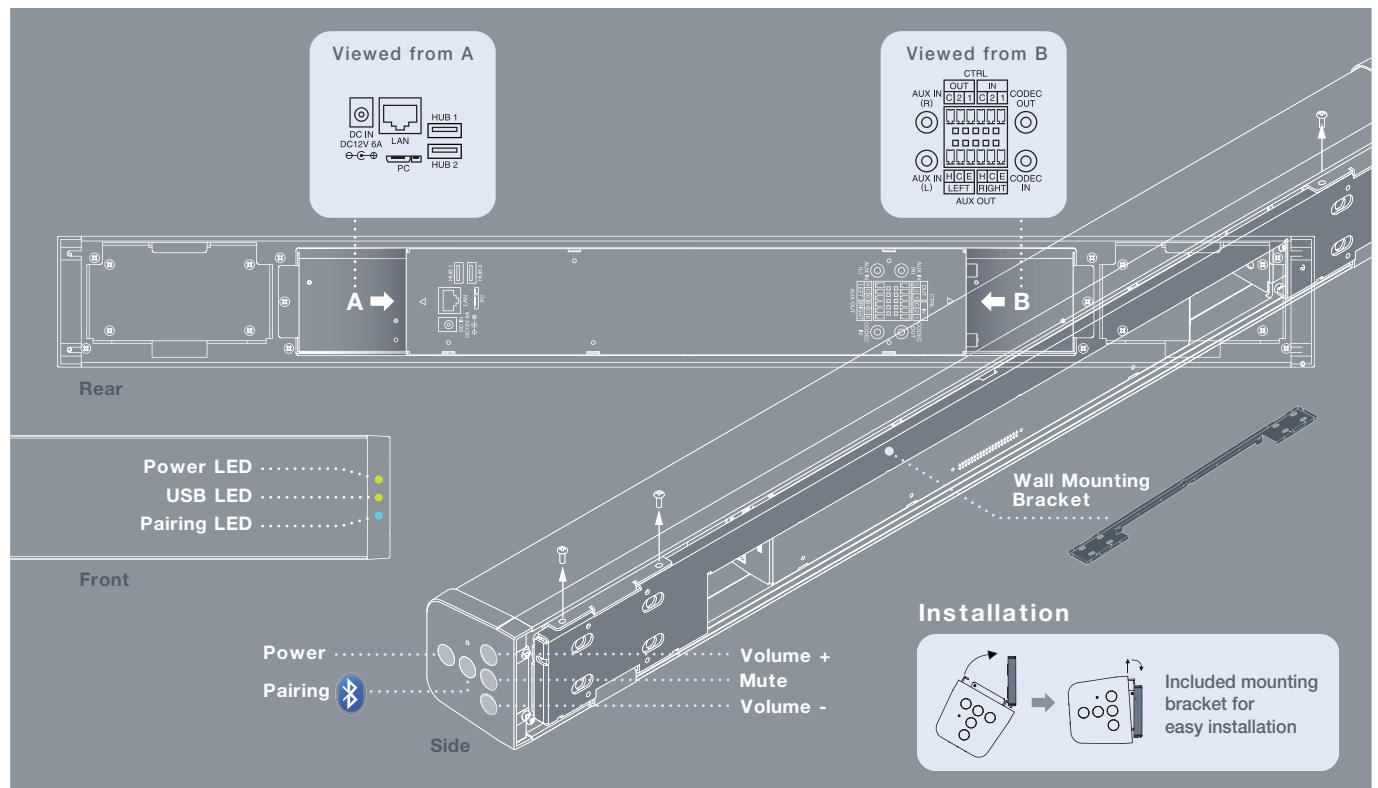


- TOA's proprietary beam steering array microphone
- Integrated DSP functions including AEC and NC
- Stereo soundbar with auxiliary stereo audio inputs/outputs
- Built-in USB Hub for webcam integration
- Codec input /output and Contact Closure inputs/outputs
- Bluetooth interface for wireless connections

Applications



Connections



Specifications

	AM-CF1B (Black)	AM-CF1W (White)
Power Source	12 V DC (supplied from the specified AC adapter) or 52 V DC (supplied from the specified PoE extender)	
Current Consumption	Under 3.5 A	
Inputs	USB Audio: 2 channels, USB 3.0/USB 2.0/USB 1.1 micro-B port Bluetooth: 2 channels Codec: 1 channel, RCA pin jack, -10 dB ^{*1} , 10 kΩ, unbalanced type AUX: 2 channels, RCA pin jack, -10 dB ^{*1} , 10 kΩ, unbalanced type	
Outputs	USB Audio: 2 channels, USB 3.0/USB 2.0/USB 1.1 micro-B port Bluetooth: 2 channels Codec: 1 channel, RCA pin jack, -10 dB ^{*1} , 600 Ω, unbalanced type AUX: 2 channels, removable terminal block (6 pins), 4 dB ^{*2} , 600 Ω, balanced (electronically-balanced) type Internal speaker: 2-way × 2 (woofer × 2, tweeter × 1)	
Control Inputs	2 inputs, removable terminal block (6 pins), no-voltage make contact	
Control Outputs	2 outputs, removable terminal block (6 pins), no-voltage make contact, relay contact output	
Network I/F	10BASE-T/100BASE-TX, RJ-45	
Array Microphone	Unidirectional electret condenser type	
Frequency Characteristics	20 Hz – 20 kHz (AUX IN – AUX OUT)	
Operation Section	Power switch, Bluetooth pairing, Mute, Volume Up/Down	
Indicators	Power (blue/green/orange/red), USB connection (green), Bluetooth (blue), Multifunction (green/red)	
Operating Temperature	0 – 40°C (32 – 104°F)	
Operating Humidity	90% RH or less (no condensation)	
Body	Aluminum, black	Aluminum, white
Punched Net	Steel, black (RAL 9005 equivalent)	Steel, white (RAL 9003 equivalent)
Side Cover	ABS resin, black	ABS resin, white
Dimensions	799 (w) × 83.2 (h) × 85.5 (d) mm (31.46" × 3.28" × 3.37")	
Weight	4.6 kg (10.14 lb)	

^{*1} 0 dB = 1 V ^{*2} 0 dB = 0.775 V



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