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.

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.

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

![Diagram](image)

**Viewed from A**
- Power LED
- USB LED
- Pairing LED

**Viewed from B**
- Wall Mounting Bracket

**Rear**
- Power LED
- Volume +
- Volume -
- Mute
- Bluetooth
- USB LED
- Pairing LED

**Front**
- Power LED
- USB LED
- Pairing LED

**Side**
- Volume +
- Volume -

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>AM-CF1B (Black)</th>
<th>AM-CF1W (White)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>12 V DC (supplied from the specified AC adapter) or</td>
<td>52 V DC (supplied from the specified PoE extender)</td>
</tr>
<tr>
<td><strong>Current Consumption</strong></td>
<td>3.5 A or less</td>
<td></td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>USB Audio: 2 channels, USB 3.0/USB 2.0/USB 1.1 3.0 type-B port</td>
<td>Bluetooth: 2 channels, Codec: 1 channel, RCA pin jack, −10 dB<em>1, 10 kΩ, unbalanced type AUX: Stereo 1 channel, RCA pin jack, −10 dB</em>1, 10 kΩ, unbalanced type</td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td>USB Audio: 2 channels, USB 3.0/USB 2.0/USB 1.1 3.0 type-B port</td>
<td>Bluetooth: 1 channel Codec: 1 channel, RCA pin jack, −10 dB<em>1, 600 Ω, balanced type AUX: Stereo 1 channel, removable terminal block (6 pins), 4 dB</em>2, 600 Ω, balanced (electronically-balanced) type</td>
</tr>
<tr>
<td><strong>Control Inputs</strong></td>
<td>2 inputs, removable terminal block (6 pins), no-voltage make contact</td>
<td>2 inputs, removable terminal block (6 pins), no-voltage make contact</td>
</tr>
<tr>
<td><strong>Control Outputs</strong></td>
<td>2 outputs, removable terminal block (6 pins), no-voltage make contact, relay contact output</td>
<td>relay contact output</td>
</tr>
<tr>
<td><strong>Network I/F</strong></td>
<td>10BASE-T/100BASE-TX, RJ-45</td>
<td></td>
</tr>
<tr>
<td><strong>Array Microphone</strong></td>
<td>Unidirectional electret condenser type</td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Characteristics</strong></td>
<td>20 Hz – 20 kHz [AUX IN – AUX OUT]</td>
<td></td>
</tr>
<tr>
<td><strong>Operation Section</strong></td>
<td>Power switch, Bluetooth pairing, Mute, Volume Up/Down</td>
<td></td>
</tr>
<tr>
<td><strong>Indicators</strong></td>
<td>Power (blue/green/orange/red), USB connection (green/blue), Bluetooth (blue), Multifunction (green/red)</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 – 40˚C (32 – 104˚F)</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>30% RH or less (no condensation)</td>
<td></td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td>Aluminum, black, 30% gloss</td>
<td>Aluminum, white</td>
</tr>
<tr>
<td><strong>Punched Net</strong></td>
<td>Surface-treated steel plate, black (RAL 9005 equivalent), 30% gloss</td>
<td>Surface-treated steel plate, white (RAL 9003 equivalent)</td>
</tr>
<tr>
<td><strong>Side Cover</strong></td>
<td>ABS resin, black</td>
<td>ABS resin, white</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>800 x 83.2 x 85.8 mm (31.50” x 3.28” x 3.38”)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>4.6 kg (10.14 lb)</td>
<td></td>
</tr>
</tbody>
</table>

*1 0 dB = 1 V  
*2 0 dB = 0.775 V