

## Infrared Conference System



### Features

- **Infrared operation avoids problems associated with RF wireless systems**
- **ATCS-60 keeps signals safe & secure, with no information leakage**
- **Flexible system configuration, intuitive operation**
- **Microphone & camera settings can be controlled by a PC running optional software**
- **Using ID switch methodology, the ATCS-60 guarantees prompt and responsive communication**
- **The chairperson can override other units with the “all finish” function**
- **Provides low-battery indication**
- **Built-in speaker and headphone jack with personal volume control**
- **Selectable automatic/manual mode**
- **Simultaneous interpretation: Up to 4 separate channels for multi-language meetings**

### Description

Audio-Technica's ATCS-60 infrared conference system offers secure wireless communication with flexible system configuration and up to four separate channels for multi-language meetings. While typical UHF wireless systems broadcast through walls, the ATCS-60 keeps signals secure, permitting no information leakage.

Audio-Technica wireless infrared technology provides the user with flexibility while configuring the system and freedom of choice when placing microphones. From intimate meetings to large boardrooms and events, the ATCS-60 adapts to meet users' needs.

Up to four separate channels make the ATCS-60 ideal for multi-language meetings, making it possible to have one mother tongue and three additional translations. Additional features include an automated camera function facilitating audio visual integration and the option of software control, allowing the user to adjust camera position and microphone settings from “Conference Manager” software. The upgradable structure of the system makes it easier to adapt to specific conference setups.

By utilizing ID switch methodology, the ATCS-60 guarantees prompt and responsive communication. The chairperson's unit has control to override all other units with the “all finish” function.

The user can select from automatic and manual operating modes. In the automatic mode, the microphone is turned on when spoken into and turned off when there is no voice. The holding time can be altered to cater to users' needs. In manual mode, the simple operation of pressing the TALK (speech) button enables the on/off switching.

The 19" rackmountable ATCS-C60 master control unit can be configured to control functions including the number of delegate units with priority settings, select *automatic* or traditional *button press* modes, adjust threshold for automatic mode, adjust hold time, and control output of up to five separate audio channels via available software. The number of units with priority settings can be selected. The ATCS-C60 provides the option for FIFO “First In first Out” or FILO “First In Last Out” modes when selecting which order people speak. Automatic mode and manual or traditional button press mode are both available. Other features include: adjustable threshold setting for automatic mode, adjustable hold time for how the microphone stays on after speaking, and direct output of up to 5 separate audio channels can be output via available software.

The wall- or ceiling-mounted ATCS-A60 IR transmitter/receiver connects to the C60 master control unit via BNC coaxial cable. Use of separate ATCS-D60 distributor units allows up to sixteen A60 transmitter/receivers to be used simultaneously to cover larger venues. Utilizing an automated gain gives the A60 greater IR performance.

The ATCS-M60 delegate unit offers unique DSP voice detection, built-in loudspeaker, headphone output and four monitor channels to allow for multiple language translations. Microphones can turn on automatically when a voice is detected. Unique DSP voice detection ignores the sound of rustling papers when using the automatic microphone mode. It offers built-in loudspeaker and headphone output for personal amplification negating the need for an additional P.A. system. It enables simultaneous speech by up to 5 people. Priority setting function may enable priority to microphones other than the chairperson unit. Four monitor channels are available to easily integrate multiple language translations. When battery life is low, both the power LED and microphone LED will flash rapidly as a warning.

The ATCS-60MIC dedicated microphone is a double-gooseneck hypercardioid condenser microphone with an XLR-type output that connects to the M60 delegate unit. This standard-length microphone (43 cm overall length) is ideal for conferences.

The ATCS-L60MIC dedicated microphone is the long-length (58 cm overall length) offering of the double-gooseneck hypercardioid condenser microphone. Like the shorter version, it offers an XLR-type output for connection to the M60 delegate unit.

ATCS-C60MAG software is the standard version of ATCS-60 Conference Manager software. It is supplied free of charge with each C60 master control unit and allows complete control over all basic system functions, including number of speakers, speaker order, individual volume, thresholds and audio routing for interpretation integration. ATCS-60MAG-REG is the extended version of the Conference Manager software. It offers enhanced features that increase the capabilities of the ATCS-60, permitting audio recording and video recording, with programmability to allow cameras to follow the delegate unit currently in use. This innovative feature makes the ATCS-60 ideal for video-conferencing and conference relay with the minimal set-up obstacles.

The DMQ-60 monaural earphone is designed for clear intelligible audio, and provides a comfortable fit for either ear.

The ATCS-B60 battery charger is an intelligent quick-charger with 10 individual advanced monitor sockets, taking only 5.5 hours for a full charge. Exclusively manufactured high-specification LI-240 lithium-ion batteries are specially designed for the ATCS-M60 unit.

The 1-in 2-out ATCS-D60 distributor allows up to sixteen A60 transmitter/receivers to be used simultaneously to cover larger venues.

### Architect's and Engineer's Specifications

The infrared conference system shall offer flexible system configuration and up to four separate channels for multi-language meetings. Additional features shall include an automated camera function facilitating audio visual integration and the option of software control, allowing the user to adjust camera position and microphone settings from software. The infrared conference system shall utilize ID switch methodology for prompt and responsive unit selection. The chairperson's unit shall be permitted to override all other units with the "all finish" function. When battery life is low, both the power LED and microphone LED shall flash rapidly as a warning.

Selectable automatic and manual modes shall be offered. In the automatic mode, the microphone shall be turned on when spoken into and turned off when there is no voice. The holding time shall be alterable. In manual mode, pressing the TALK (speech) button shall enable the on/off switching.

Available components and accessories shall include:

A 19" rackmountable master control unit shall be configurable to control functions including the number of delegate units with priority settings, select *automatic* or traditional *button press* modes, adjust threshold for automatic mode and output up to five separate audio channels via software. The number of units with priority settings shall be selectable. The master control unit shall provide the option for FIFO "First In first Out" or FILO "First In Last Out" modes when selecting which order people speak. Automatic mode and manual or traditional button press mode shall both be available. Other features shall include: adjustable threshold setting for automatic mode, adjustable hold time for how long the microphone stays on after speaking, and direct output of up to 5 separate audio channels that can be output via the software.

A wall- or ceiling-mounted transmitter/receiver shall connect to the master control unit via BNC coaxial cable. Use of separate distributor units shall allow up to sixteen transmitter/receivers to be used simultaneously to cover larger venues.

A delegate unit shall offer unique DSP voice detection, a built-in loudspeaker, a headphone output and four monitor channels to allow for multiple language translations. Microphones shall turn on automatically when a voice is detected. Unique DSP voice detection shall ignore the sound of rustling papers when using the automatic microphone mode. Built-in loudspeaker and headphone output for personal amplification shall negate the need for an additional P.A. system. It shall enable simultaneous speech by up to 5 people. Four monitor channels shall be available to integrate multiple language translations.

A dedicated double-gooseneck hypercardioid condenser microphone with 43 cm overall length shall have an XLR-type output for connection to the delegate unit. The 58 cm-long dedicated microphone shall offer an XLR-type output for connection to the delegate unit.

A standard version of conference manager software shall be supplied free of charge with each master control unit, allowing complete control over all basic system functions, including number of speakers, speaker order, individual volume, thresholds and audio routing for interpretation integration. Enhanced features of the software shall increase the capabilities of the system, permitting audio recording and video recording, with programmability to allow cameras to follow the delegate unit currently in use.

A monaural earphone shall offer clear intelligible audio, and provide a comfortable fit for either ear. A battery charger shall offer 10 individual advanced monitor sockets, taking 5.5 hours for a full charge. Exclusively

manufactured high-specification LI-240 lithium-ion batteries shall be designed for the delegate unit. The 1-in 2-out distributor shall allow up to sixteen transmitter/receivers to be used simultaneously to cover larger venues.

The specified infrared conference system shall be an Audio-Technica ATCS-60 infrared conference system.

The specified component(s) shall be Audio-Technica (note to specifier – choose components): ATCS-C60 master control unit, ATCS-A60 IR transmitter/receiver, ATCS-M60 delegate unit, ATCS-60MIC dedicated microphone, ATCS-L60MIC dedicated microphone (Long), ATCS-C60MAG-REG software, DMQ-60 monaural earphone, ATCS-B60 battery charger, LI-240 lithium-ion batteries, ATCS-D60 distributor

Specifications	ATCS-C60 – Master Control Unit
Bandwidth	1–10 MHz
Number of channels	Voice 5 ch; monitor 4 ch; data 2 ch
Modulation method	FM modulation
Infrared data communication	9,600 bps
Audio input	
Monitor input	(-10 dBV, unbalanced) 4 systems
External input 1	(-10 dBV, unbalanced) 1 system
External input 2	(-10 dBV, balanced) 1 system (-50 dBV, unbal.) 1 system
Audio output	
Direct output	(-10 dBV, unbalanced) 5 systems
Output 1	(-10 dBV, unbalanced) 1 system
Output 2	(-10 dBV, balanced) 1 system
Recording output	(-10 dBV, unbalanced) 2 systems
Power supply	AC 100–240V
Weight	4.2 kg (main body only)
Accessories	2 rack adapters, 6 rack adapter installation screws, 5 mini drivers, AC power cord
	<b>ATCS-M60 – Delegate Unit</b>
Bandwidth	1–10 MHz
Number of channels	Voice 5 ch; monitor 4 ch; data 2 ch
Modulation method	FM modulation
Infrared data communication	9,600 bps
Speaker output	8 Ω, 2W
Headphone output	Ø 3.5 mm monaural mini-jack
Power supply	Dedicated lithium-ion battery with 7.4 VDC, 2400 mAh or AC adapter with 12 VDC, 1A
Standard operation time	
Continuous speeches	6 hours
Signal reception status	10 hours
Dimensions	187 mm W x 75.5 mm H x 149 mm D
Weight	0.6 kg (microphone and battery excluded)
Optional accessories	LI-240 lithium-ion battery, AC adapter
	<b>ATCS-60MIC, ATCS-L60MIC Dedicated Microphones</b>
Model	Fixed-charge back plate
Polar pattern	Hypercardioid
Frequency response	200–5,000 Hz
Sensitivity	(0 dB = 1V/1 pa, 1 kHz) -45 dB
Maximum input sound level	100 dB S.P.L. (1 kHz, THD 1%)
Signal-to-noise ratio	(1 kHz, 1 pa) > 61 dB
Output impedance	< 680 Ω, unbalanced
Finish	Matte black
Weight	115 g (ATCS-60MIC)



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