# LPT-C2 & LPT-C6
# ListenPoint® Standard & Advanced Control Unit (CU)

**Listen**®

www.listentech.com



| Configurations | |
|---|---|
| LPT-C2-01 | LPT-C6-01 |
| LPT-C2-02 | LPT-C6-02 |
| LPT-C2-03 | LPT-C6-03 |
| LPT-C2-04 | LPT-C6-04 |

The ListenPoint Control Unit (CU) is the heart of the ListenPoint system. It's simple and easy for users with one, intuitive control for adjusting volume and selecting audio sources. The Control Unit connects to the Room Module using a single Cat-5e cable. Audio and control devices connect to the rear panel. Extensive customization of system through password protected front panel or via USB port. The tilting LCD is easy to read and displays the status of all M1s on the system including battery level.

The C2 delivers outstanding performance on a budget. Designed to blend into any room, the control unit can be wall, desk or rack mounted.

The C6 ListenPoint Control Unit is an ideal unit for audio visual integration as it accommodates teleconferencing devices bringing the outside world into the room. The control unit includes pro audio balanced inputs/outputs, a direct teleconferencing/Skype™/VOIP port and USB for customization.

## Highlights

- Simple and easy for users with one intuitive control for adjusting volume and selecting audio sources.

- Single point of connection via Cat-5e cabling makes installation and maintenance simple.

- Tilting LCD Screen shows audio selection, volume, M1 status and battery level. When mounted the LCD can be inverted 180°.

- Automatic audio selection - volume can be controlled via the CU or M1.

- Extensive customization of system through password protected front panel or via USB port.

- Designed to blend into any room, can be wall, table or rack mounted with supplied mounting platform.

- Bring the world into you room – make multiple person conference calls with a teleconferencing unit (like the SoundStation2®) or via Skype™/VOIP (C6 only).

## Includes

ListenPoint Control Unit (LPT-C2 or LPT-C6)
Mounting Platform
Mounting Hardware
Euro Connectors
19 VDC Universal Power Supply
Line Cord
Quick Reference Card
Installation Guide

## Used With

LPT-R2 ListenPoint Room Module (2 M1 Max/ No Power Amp.)
LPT-R12 ListenPoint Powered Room Module (2 M1 Max/ 60 Watt)
LPT-R22 ListenPoint High Powered Room Interface Module (2 M1 Max/ 120 Watt)
LPT-M1 ListenPoint Microphone/Media Interface Kit

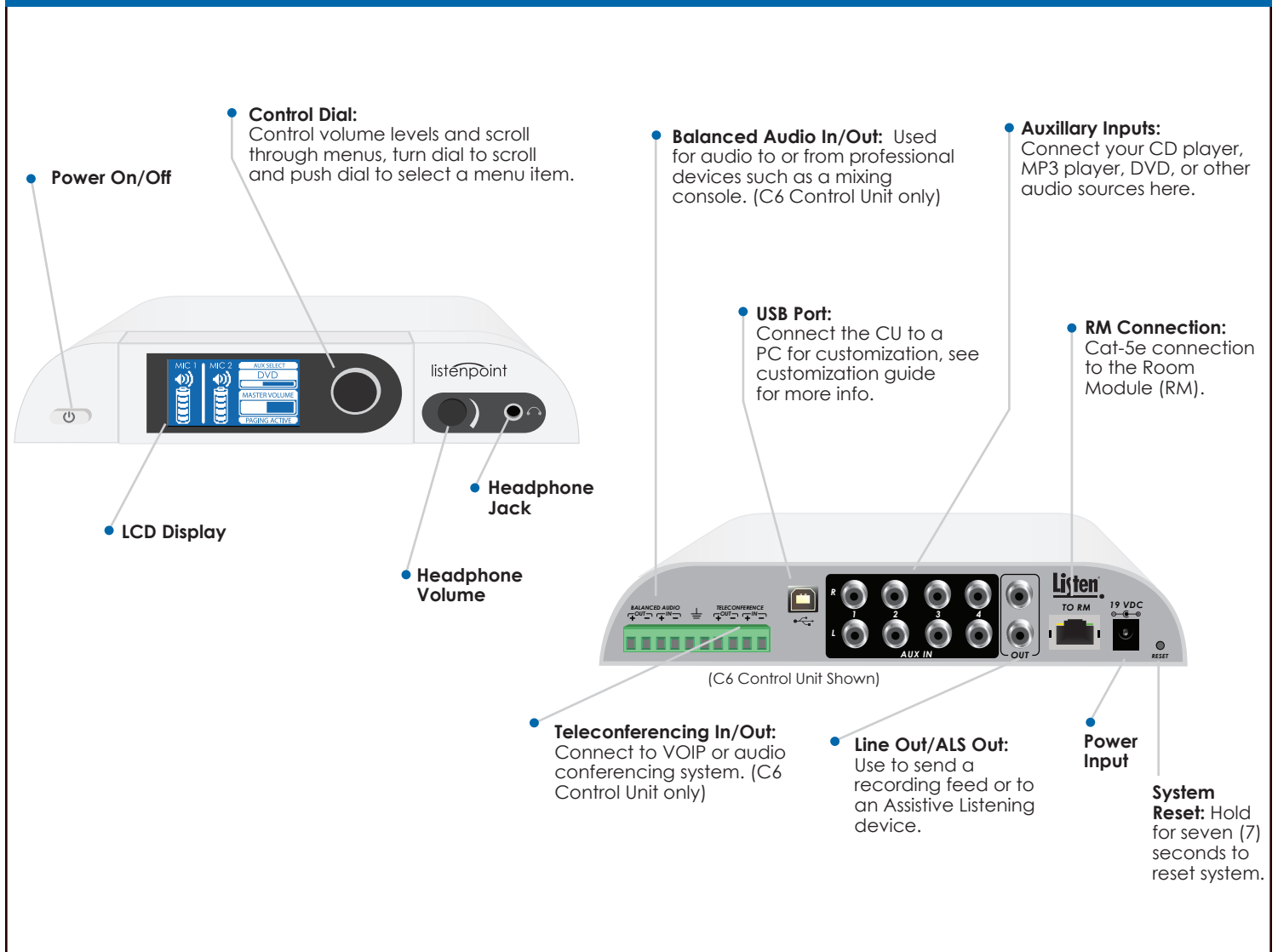## Architectural Specifications

**LPT-C2 ListenPoint Standard Control Unit / LPT-C6 ListenPoint Advanced Control Unit -**
The control unit shall be capable of accepting at least two (2) unbalanced stereo inputs. The control unit shall incorporate a single digital rotary control and LCD display for selecting audio, setting volume, system customization and status of the M1's. The control unit shall incorporate automatic audio selection of audio sources and the volume of such source shall be controlled by M1's connected to the system. The control unit shall be connected to a corresponding room module using a standard Cat-5e cable. The control unit shall be capable of being customized via a USB port. The control unit shall be capable of being mounted on wall, table or rack mountable.
The ListenPoint Control Unit is specified.

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# LPT-C2 & LPT-C6
## ListenPoint® Standard & Advanced Control Unit (CU)

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## Functionality Quick Reference

**Control Dial:**
Control volume levels and scroll through menus, turn dial to scroll and push dial to select a menu item.

**Power On/Off**

**Balanced Audio In/Out:** Used for audio to or from professional devices such as a mixing console. (C6 Control Unit only)

**Auxillary Inputs:**
Connect your CD player, MP3 player, DVD, or other audio sources here.

**USB Port:**
Connect the CU to a PC for customization, see customization guide for more info.

**RM Connection:**
Cat-5e connection to the Room Module (RM).

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**Headphone Jack**

**LCD Display**

**Headphone Volume**

(C6 Control Unit Shown)

**Teleconferencing In/Out:**
Connect to VOIP or audio conferencing system. (C6 Control Unit only)

**Line Out/ALS Out:**
Use to send a recording feed or to an Assistive Listening device.

**Power Input**

**System Reset:** Hold for seven (7) seconds to reset system.

# LPT-C2 & LPT-C6
# ListenPoint® Standard & Advanced Control Unit (CU)

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## Specifications*

| | | LPT-C2 | LPT-C6 |
|---|---|---|---|
| Audio | Unbalanced Input | Two (2) Stereo inputs via phono connectors, unbalanced, -10dBu nominal input level, +2 dBu maximum, adjustable -30/+12dB, impedance 100k Ohms. | Four (4) Stereo inputs via phono connectors, unbalanced, -10dBu nominal input level, +2 dBu maximum, adjustable -30/+12dB, impedance 100k Ohms. |
| | Unbalanced Output | One (1) Dual Mono Output, Phono Connector, -10dBu nominal, 10 Ohm | |
| | Balanced Input | N/A | One (1) Balanced Input, Euro Connectors, 0 dBu nominal, +12dBu maximum, 10k Ohm |
| | Balanced Output | N/A | One (1) Balanced Output, Euro Connectors, 0 dBu, 600 Ohm |
| | Teleconferencing Balanced Input | N/A | One (1) Balanced Input, Euro Connectors, 0 dBu nominal, +12 dBu maximun, 10k Ohm |
| | Teleconferencing Balanced Output | N/A | One (1) Balanced Output, Euro Connectors, 0 dBu, 600 Ohm (mix-minus output) |
| | Headphone Output | One (1) 3.5 mm stereo connector, unbalanced, adjustable output level, +10 dBu maximum, impedance 10 Ohm. | |
| | Input to Output Frequency Response | 20 Hz to 20 kHz, +/- 2 dB, < 2.0% THD, >75 dB SNR | |
| | Microphone to Output Frequency Response | 200 Hz to 15 kHz, +/- 2 dB, < 2.0% THD, >75 dB SNR | |

| Controls & Indicators | Front Panel | Power Button, LCD, Control Dial, Headphone Level |
|---|---|---|
| | Back Panel | USB, CAT-5e Output w/ LED indicator, Power Input, System Reset |

| Power | Power Supply Input | 100-240 VAC, 50-60 Hz |
|---|---|---|
| | Power Supply Output | 19 VDC, 3.2 A, 60.8 w |
| | Power Supply Connector | DC Plug type Connector, .2 in (5.5 mm) OD, center positive |
| | Power Cord | Line cord is determined by each country's AC power standards |
| | Power Cord Length | 6.0 ft. (1.8 m) |

| Physical | Dimensions (H x W x D) | 1.5 x 8.5 x 6.9 in. (3.8 x 20.4 x 17.5 cm) |
|---|---|---|
| | Mounting Platform and Cable Cover Dimensions (H x W x D) | 1.9 x 8.5 x 9.8 in. (4.7 x 20.4 x 24.9 cm) |
| | Power Supply Dimensions (H x W x D) | 1.3 x 2.4 x 4.8 in. (34 x 60 x 122 cm) |
| | Control Unit Mounting | Mounting platform provided for wall, desk, electrical boxes |
| | Cable Cover Mounting | Mounts to mounting platform |
| | Weight | 1.5 lbs. (.68 kg) |
| | Shipping Weight | 3.0 lbs. (1.36 kg) |
| | Compliance | CE, ROHS, FCC, Industry Canada |
| | Power Supply Compliance | UL, CE, ROHS, FCC, Industry Canada |

* Preliminary- Specifications are subject to change without notification.

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ListenPoint Control Units 3

# LPT-R2, R12, R22
# ListenPoint® Room Module (RM)

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The ListenPoint Room Modules (RM) are designed to easily mount on the ceiling or on the wall of a room and its primary purpose is to communicate with the ListenPoint Microphone/Media Interface (M1) via infrared light and provide speaker connections if desired. It connects to Control Unit with one (1) Cat-5e cable reducing cable clutter. The RM has a built in IR sensor/emitter that bi-directionally communicates with up to two (2) M1's. Two (2) additional sensors may be added to the RM. The RM has a paging input and a relay output for controlling other devices. The paintable surface (except the sensor lens) snaps into a supplied mounting platform and has a cable cover that hides the cables.

## Highlights

- Single point of contact for ceiling or wall speakers, expansion sensors, paging input and relay output. R2 used to connect to existing sound systems.

- Connects to the Control Unit via Cat-5e cable, making installation and maintenance simple.

- Bi-directional communication between M1 and room module provides excellent performance, coverage, features and reliability.

- Advanced Quickfilter® provides 512 points of equalization for precise tuning of pre loaded speaker models (R12, R22).

- Seven band DSP based equalizer – two tone controls and five fully parametric filters (R12, R22).

- Includes mounting platform for wallboard and drop ceilings and can be mounted directly to electrical boxes.

## Includes

ListenPoint Room Module (LPT-R2, LPT-R12, LPT-R22)
Mounting Platform
Mounting Hardware
Euro Connectors

## Used With

LPT-C2 ListenPoint Standard Control Unit
LPT-C6 ListenPoint Advanced Control Unit
LPT-M1 ListenPoint Microphone/Media Interface Kit
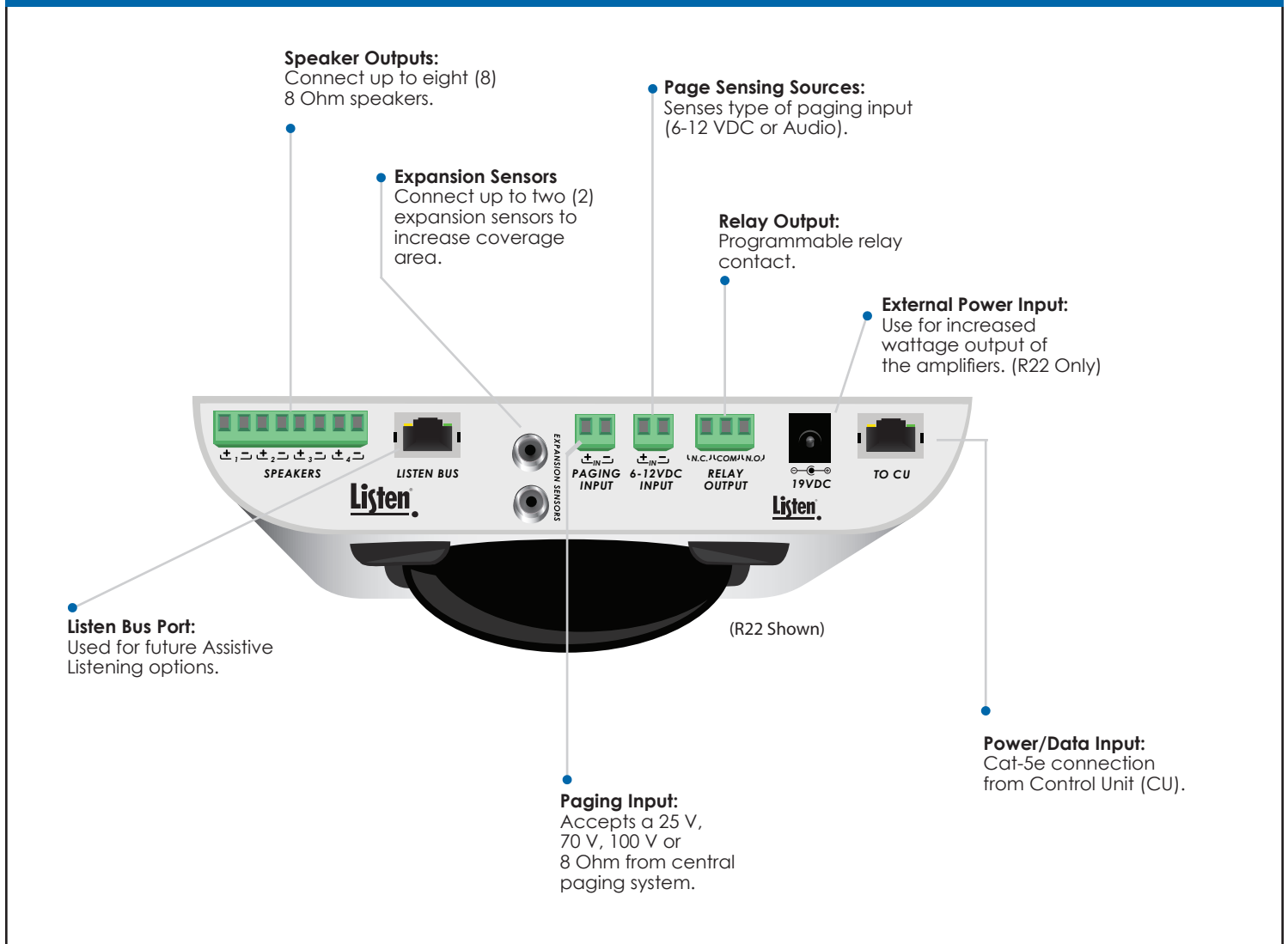
## Architectural Specifications

**LPT-R2 ListenPoint Room Module (2 M1 Max/No Power Amp.) /LPT-R12 ListenPoint Powered Room Module (2 M1 Max/60 Watts) / LPT-R22 ListenPoint High Powered Room Module (2 M1Max/120 Watts) -**
The room module shall connect to a control unit using a standard Cat-5e cable and shall provide bi-directional communication with infrared M1's by means of a built-in emitter-sensor. The room module shall provide equalization for popular ceiling speaker models and provide a seven band equalizer consisting of two tone controls and five bands of fully parametric equalization for the room. The room module shall be capable of adding two (2) additional IR sensors. The room module shall accept an external paging input that shall reduce the speaker level when paging audio is present. The room module shall snap into a mounting platform that can be mounted to wall board and ceiling tile and shall have a cable cover. The ListenPoint Room Module is specified.

# LPT-R2, R12, R22
# ListenPoint® Room Module (RM)

## Functionality Quick Reference

**Speaker Outputs:**
Connect up to eight (8)
8 Ohm speakers.

**Page Sensing Sources:**
Senses type of paging input
(6-12 VDC or Audio).

**Expansion Sensors**
Connect up to two (2)
expansion sensors to
increase coverage
area.

**Relay Output:**
Programmable relay
contact.

**External Power Input:**
Use for increased
wattage output of
the amplifiers. (R22 Only)

SPEAKERS    LISTEN BUS    EXPANSION SENSORS    PAGING INPUT    6-12VDC INPUT    RELAY OUTPUT    19VDC    TO CU

**Listen Bus Port:**
Used for future Assistive
Listening options.

(R22 Shown)

**Power/Data Input:**
Cat-5e connection
from Control Unit (CU).

**Paging Input:**
Accepts a 25 V,
70 V, 100 V or
8 Ohm from central
paging system.

# LPT-R2, R12, R22
## ListenPoint® Room Module (RM)

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| Specifications* | | | | |
|---|---|---|---|---|
| | | LPT-R2 | LPT-R12 | LPT-R22 |
| Audio | Speaker Output | N/A | Four (4) amplifier channels w/ 2-pin euro connectors, each 4 Ohms @ 15 watts (60 watts total) | Four (4) amplifier channel w/ 2-pin euro connectors, each 4 Ohms @ 30 watts (120 watts total) |
| | Balanced Output | One (1) Balanced Input, Euro Connectors, 0 dBu nominal, +24dBu maximun, impedance 600 Ohms | N/A | |
| | Paging Input | One (1) 2-pin Euro Connector, 8 ohm, 25 volt, 70 volt, 100 volt - internally selectable | | |
| | 6-12 VDC Input | One (1) 2-pin Euro Connector, 600 Ohms | | |
| | Relay Output | One (1) 3-pin Euro Connector, Latching or Pulse Relay - programmed via software | | |
| | Microphone to Speaker Output Frequency Response | 200 Hz to 15 kHz, +/- 2 dB, < 2.0% THD, >75 dB SNR | | |
| | Input to Speaker Output Frequency Response | 20 Hz to 20 kHz, +/- 2 dB, < 0.1% THD, >75 dB SNR | | |
| | Speaker EQ | Quickfilter®, 512 points of equalization by speaker model | | |
| | Room EQ | Five (5) band parametric, Two (2) tone controls | | |
| | Infrared Emitter | 38 kHz subcarrier | | |
| | Infrared Sensor | 2.3 MHz, 2.8 MHz | | |
| | External Infrared Sensor | Two (2) phono connectors provided | | |

| Controls & Indicators | Rear Panel | Two (2) Cat-5e w/ LED indicator connectors, two (2) phono connectors | Four (4) 2-pin euro connectors, two (2) Cat-5e w/ LED indicator connectors, two (2) phono connectors | |
|---|---|---|---|---|

| Power | Supplied via Control Unit | 19 VDC, 60 Watts via Cat-5e cable | 19 VDC, 60 watts via Cat-5e cable w/ additional auxiliary power supply (included) | |
|---|---|---|---|---|
| | Power Supply Input | N/A | 100-240 VAC, 50-60 Hz, 0.4 A | |
| | Power Supply Output | N/A | 19 VDC, 3.2 A, 60.8 w | |
| | Power Supply Connector | N/A | DC Plug type Connector, .2 in (5.5 mm) OD, center positive | |
| | Power Supply Length | N/A | 1.3 x 2.4 x 4.8 in. (34 x 60 x 122 cm) | |
| | Line Cord | N/A | Line cord is determined by each country's power configuration | |
| | Line Cord Length | N/A | 6.0 ft. (1.8 m) | |

| Physical | Dimensions (H x W x D) | 2.1 x 8.5 x 6.9 in. (5.4 x 20.4 x 17.5 cm) | | |
|---|---|---|---|---|
| | Mounting Platform Dimensions (H x W x D) | 2.5 x 8.5 x 9.8 in. (6.3 x 20.4 x 24.9 cm) | | |
| | Power Supply Dimensions (H x W x D) | 1.3 x 2.4 x 4.8 in. (34 x 60 x 122 cm) | | |
| | Room Module Mounting | Mounting platform provided, mounts to most electrical boxes | | |
| | Cable Cover Mounting | Mounts to mounting platform | | |
| | Weight | 1.75 lbs. (.8 kg) | | |
| | Shipping Weight | 3.0 lbs. (1.36 kg) | | |
| | Compliance | CE, ROHS,FCC, Industry Canada | | |
| | Power Supply Compliance | UL,CE, ROHS,FCC, Industry Canada | | |

* Preliminary- Specifications are subject to change without notification.

# LPT-M1
# ListenPoint® Microphone/Media Interface Kit (M1)

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| Configurations |
| --- |
| LPT-M1 |

The LPT-M1 ListenPoint Microphone/Media Interface Kit (M1) provides the ability to interface external sources wirelessly such as laptops, iPads, MP3 players or be used as a microphone with the ListenPoint system. It offers exceptional audio quality, ease of use and years of dependable service. The intuitive design allows the user to control volume. The M1 uses advanced lithium ion battery technology and intelligent battery management to maximize battery life, minimize battery charging time and increases the time between battery replacements. The included drop in charger makes charging simple and fast.

## Highlights

- Acts as the user interface providing wireless connectivity for audio sources, as a microphone, or simple remote control.

- Advanced Lithium ion battery technology provides up to 8 hours of battery life for extended use with confidence.

- Quick charge in under 2 hours.

- IR technology is secure and cannot be picked up outside the room.

- Simple, intuitive operation makes it user friendly.

- When used as a microphone three ways to use it: lanyard, handheld, and belt worn, - accommodates the user's preference.

- Instant On registration - provides instant link between M1 and system (default setting).

## Includes

LPT-M1 ListenPoint Microphone/Media Interface
Handheld Sleeve
Clips (lanyard, handheld and belt)
Lanyard
Charging/Storage Station
5 VDC Universal Power Supply (Includes -01,-02,-03 and -04 adaptors)*
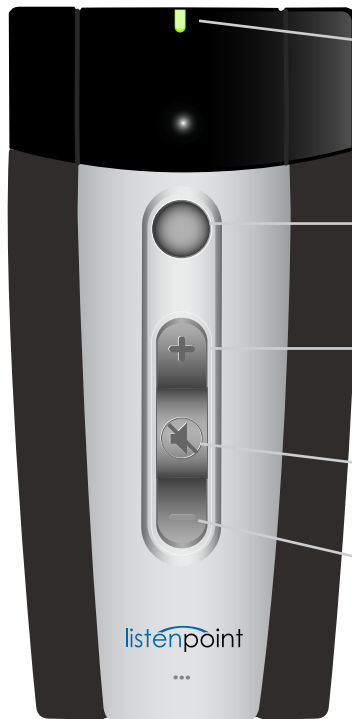Li-ion Battery
Quick Reference Card

## Used With

LPT-C2 ListenPoint Standard Control Unit
LPT-C6 ListenPoint Advanced Control Unit
LPT-R2 ListenPoint Room Module (2 M1 Max/No Power Amp.)
LPT-R12 ListenPoint Powered Room Module (2 M1 Max/60 Watt)
LPT-R22 ListenPoint High Powered Room Interface Module
(2 M1 Max/120 Watts)

## Architectural Specifications

**ListenPoint Microphone/Media Interface Kit**
The LPT-M1 ListenPoint Microphone/Media Interface Kit (M1) shall communicate bi-directionally with a room module and shall automatically select the transmission channel without user intervention. The M1 shall have a mute/volume control that adjusts the volume of the microphone and the volume of auxiliary input sources. The M1 shall incorporate a Li-ion battery and shall have an operational time of at least eight (8) hours and shall charge in less than two (2) hours. The M1 shall be capable of being used in multiple ways including handheld (sleeve), lanyard or belt worn. The M1 shall have an external microphone and auxiliary input. The LPT-M1 ListenPoint Microphone/Media Interface Kit is specified.

## Functionality Quick Reference

**Power On:** To turn microphone on, push any button for one (1) second.

**LED:** Green - Mic on
Green Blinking - Mic muted
Red - Low battery
Red Blinking- Charging
Amber - Programming functions

**Soft Button:** Typically mutes the aux inputs. See customization guide for advanced programming options.

**Volume Up:** Increases the volume when mic is on, if mic is muted button increases aux input level.

**Mute/Power Off:** Push to mute microphone. Hold down for four (4) seconds to turn mic off.

**Volume Down:** Decreases the volume when mic is on, if mic is muted, decreases selected aux input level.

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**Mic Input:** Connects optional external microphone.

**Line Input:** 3.5 mm jack for MP3 player or other audio source.

# LPT-M1
# ListenPoint® Microphone/Media Interface Kit (M1)

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| Specifications* | |
|---|---|
| **Audio** | |
| Internal Microphone to Speaker Output Frequency Response | -40 dBu nominal, 100 Ohms, 200 Hz to 15 kHz, +/- 2 dB, < 2.0% (THD), >75 dB SNR |
| External Microphone to Speaker Output Frequency Response | -40 dBu nominal, 100 Ohms, 200 Hz to 15 kHz, +/- 2 dB, < 2.0% (THD), >75 dB SNR |
| Auxiliary Input to Speaker Output Frequency Response | -20 dBu nominal, 10k Ohms, 20 Hz to 20 kHz, +/- 2 dB, < 2.0% THD, >75 dB SNR |
| Infrared Emitter | 38 kHz uplink |
| Infrared Sensor | 2.3 MHz, 2.8 MHz, 3.2 MHz, 3.8 MHz |

| **Controls & Indicators** | |
|---|---|
| Up Button | Volume up |
| Mute Button | Mute microphone |
| Down Button | Volume down |
| Soft Button | Relay, Aux Mute Control - programmed via software |
| Green LED | Solid - on/off, blinking - muted (twice per second) |
| Red LED | Solid - microphone fully charged, blinking - charging, rapid blinking - battery low capacity |
| Amber LED | Solid/Blinking - programming mode/multi-function operation |
| Beeper | Link to sensor is lost or low battery |

| **Power** | |
|---|---|
| Battery Type | Lithium Ion |
| Battery Capacity | 1180 mAh |
| Battery Charge Time | < Two (2) hour charge time |
| Operating Time | Eight (8) hours minimum |
| Power Supply Input | 100-240 VAC, 50-60 Hz, 0.4 A |
| Power Suppy Output | 5 VDC, 2 A, 10 W |
| Power Supply Cord and Connector | .09 in. (2.3 mm) OD, DC Plug |
| Power Supply Plugs | Removable plugs (types B, G, I and C included) |

| **Physical** | |
|---|---|
| Microphone Dimensions (H x W x D) | .75 x 2.0 x 4.3 in. (109 x 52 x 18 cm) |
| Microphone Weight w/ Battery | 3.8 oz (108 g) |
| Shipping Weight | 1.0 lbs. (.45 kg) |
| Mounting | Mounting platform provided for wall mounting |
| Microphone Color | Dark Grey (outer edges), Light Grey (inner section, buttons) |

| **Environmental** | |
|---|---|
| Tempature - Operation | -10°C (14°F) to +40°C (104°F) |
| Tempature - Storage | -20°C (-4°F) to +50°C (122°F) |
| Humidity | 0 to 95% Relative Humidity, non condensing |
| Microphone Kit Compliance | CE, ROHS, FCC, Industry Canada |
| Power Supply Compliance | UL, CE, ROHS, FCC, Industry Canada |

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