

LPT-C2 & LPT-C6

ListenPoint Standard & Advanced Control Unit (CU)



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 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 RS-232 port. The tilting LCD is easy to read and displays the status of all microphones 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 inputs/outputs, a direct teleconferencing/Skype™/VOIP port and RS-232 for customization and control.

Highlights

- Simple, one control for all volume and audio selection.
- Automatic audio selection - volume can be controlled via the CU or Microphone.
- Connects to the Room Module with a Cat-5e cable, making installation simple by eliminating cable clutter to ceiling mounted components.
- Tilting LCD Screen shows audio selection, volume, microphone status and battery level. When wall mounted the LCD can be inverted 180 degrees.
- Extensive customization of system through password protected front panel or via RS-232 port.
- Designed to blend into any room, can be wall, desk or rack mounted with supplied mounting platform and hardware.
- 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
Warranty Card
Quick Reference Card

Used With

LPT-R2 ListenPoint Room Module (2 Mic Max/ No Power Amp.)
LPT-R4 ListenPoint Room Module (4 Mic Max/ No Power Amp.)
LPT-R12 ListenPoint Powered Room Module (2 Mic Max/ 60 Watt)
LPT-R14 ListenPoint Powered Room Module (4 Mic Max/ 60 Watt)
LPT-R22 ListenPoint High Powered Room Interface Module (2 Mic Max/ 120 Watt)
LPT-R24 ListenPoint High Powered Room Interface Module (4 Mic Max/ 120 Watt)
LPT-M1 ListenPoint Microphone Kit

Architectural Specifications

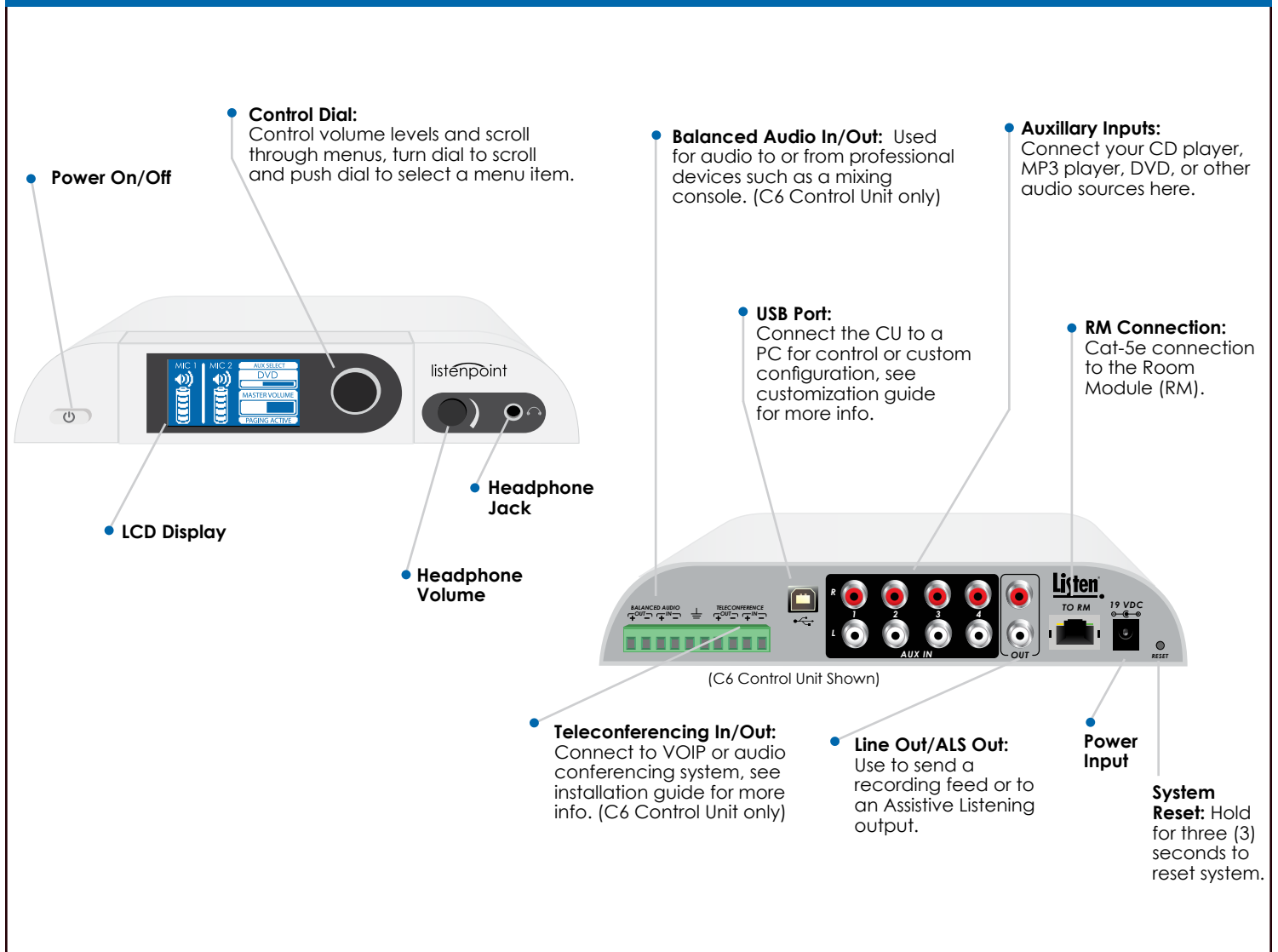
LPT-C2 ListenPoint Standard Control Unit / LPT-C6 ListenPoint Advanced Control Unit -

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 microphones. The control unit shall incorporate automatic audio selection of audio sources and the volume of such source shall be controlled by microphones 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 configured via a RS-232 serial port. The control unit shall be capable of being mounted on wall, table or rack mountable. The ListenPoint Control Unit is specified.

LPT-C2 & LPT-C6

ListenPoint Standard & Advanced Control Unit (CU)

Functionality Quick Reference



LPT-C2 & LPT-C6

ListenPoint Standard & Advanced Control Unit (CU)



Specifications*

	LPT-C2	LPT-C6
Unbalanced Input	Two (2) Stereo inputs via phono connectors, unbalanced, -10dBu nominal input level, adjustable -18/+18dB, +20dBu maximum, impedance 100k Ohms.	Four (4) Stereo inputs via phono connectors, unbalanced, -10dBu nominal input level, adjustable -18/+18dB, +20dBu maximum, impedance 100k Ohms.
Unbalanced Output	One (1) Dual Unbalanced Output, Phono Connector, -10dBu nominal, +20dBu maximum, 10 Ohm	
Balanced Input	N/A	One (1) Balanced Input, Euro Connectors, 0dBu nominal, adjustable -18/+18 db, +20dBu maximum, impedance 10k Ohms
Balanced Output	N/A	One (1) Balanced Input, Euro Connectors, 0dBu nominal, +24dBu maximum, impedance 600 Ohms
Teleconferencing Balanced Input	N/A	One (1) Balanced Input, Euro Connectors, 0dBu nominal, adjustable -18/+18 db, +20dBu maximum, impedance 10k Ohms
Teleconferencing Balanced Output	N/A	One (1) Balanced Input, Euro Connectors, 0dBu nominal, +24dBu maximum, impedance 600 Ohms (mix-minus output)
Headphone Output	One (1) 3.5 mm stereo connector, unbalanced, adjustable output level, +10dBu maximum, impedance 10 Ohm.	
Control Unit Inputs to Outputs Frequency Response	21 Hz to 20 kHz, +/- 3 dB, < 0.1% THD, >80 dB SNR	
Microphones to Outputs Frequency Response	100 Hz to 10 kHz, +/- 3 dB, < 2.0% THD, >60 dB SNR	

Controls & Indicators	Front Panel	Power Button, LCD, Control Dial, Headphone Level
	Back Panel	RS-232 (19200), 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 ft. (1.8 m)

Physical	Control Unit Dimensions (H x W x D)	1.5 x 8.5 x 6.9 in. (3.8 x 20.4 x 17.5 cm)
	Control Unit w/ 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
	Control Unit Weight	1.5 lbs. (.68 kg)
	Shipping Weight	3.0 lbs. (1.36 kg)
	Control Unit Compliance	CE, ROHS, FCC, Industry Canada
	Power Supply Compliance	UL, CE, ROHS, FCC, Industry Canada

* Preliminary- Specifications are subject to change without notification.

LPT-R2, R4, R12, R14, R22, R24 ListenPoint Room Module (RM)



Configurations

LPT-R2
LPT-R4
LPT-R12
LPT-R14
LPT-R22
LPT-R24

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 M1 microphone(s) via infrared light and provide speaker connections if desired. It connects to Control Unit with one (1) Cat-5e cable reducing cable clutter. The unit snaps into a supplied mounting platform and has a cable cover that hides the cables. The RM has a built in IR sensor/emitter that bi-directionally communicates with the microphones. This unique feature auto-registers any microphone within the room for simple operation. Two (2) additional sensors may be added to the RM. The RM has a paging input and a general purpose interface for controlling or accepting control to/from other devices.

Highlights

- Single point of contact for ceiling or wall speakers, expansion sensors, paging input and general purpose interface. R2 and R4 used to connect to existing sound systems.
- Connects to the Control Unit via Cat-5e cable, making installation simple by eliminating cable clutter.
- Bi-directional communication between microphone and room module provides excellent performance, coverage, features and reliability.
- Microphones auto-register to the room module, making operation simple.
- Advanced Quickfilter[®] provides 512 points of equalization for precise tuning of pre loaded speaker models (R12, R14, R22, R24).
- Seven band DSP based equalizer – two tone controls and five fully parametric filters (R12, R14, R22, R24).
- Includes mounting platform for wallboard and drop ceilings and can be mounted directly to electrical boxes.

Includes

ListenPoint Room Module (LPT-R2, LPT-R4, LPT-R12, LPT-R14, LPT-R22 or LPT-R24)
Mounting Platform
Mounting Hardware
Euro Connectors

Used With

LPT-C2 ListenPoint Standard Control Unit
LPT-C6 ListenPoint Advanced Control Unit
LPT-M1 ListenPoint Microphone Kit

Architectural Specifications

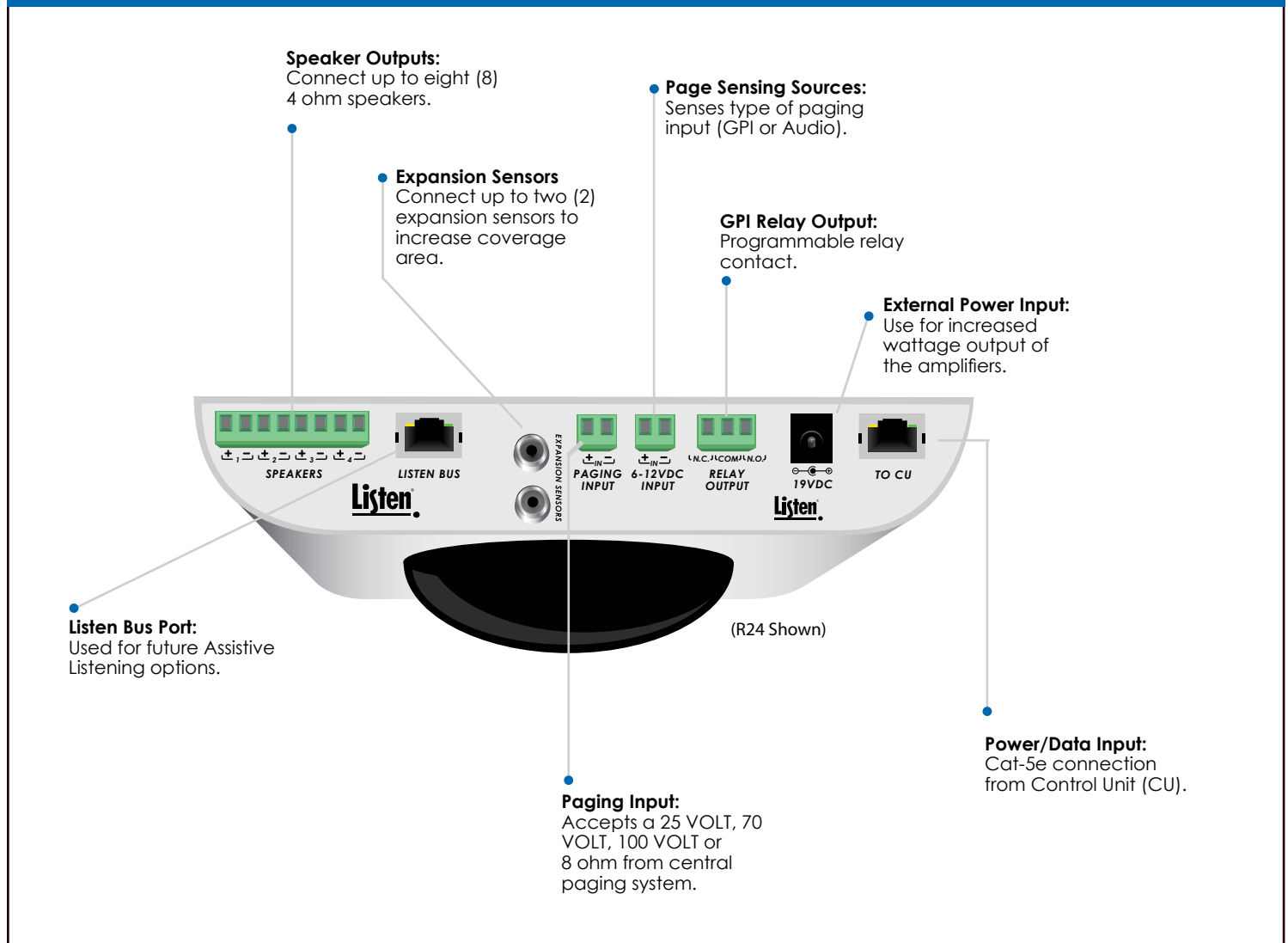
LPT-R2 ListenPoint Room Module (No Power Amp., 2 Mic Max) / LPT-R4 ListenPoint Room Module (No Power Amp., 4 Mic Max) / LPT-R12 ListenPoint Powered Room Module (60 Watt, 2 Mic Max) / LPT-R14 ListenPoint Powered Room Module (60 Watt, 4 Mic Max) / LPT-R22 ListenPoint High Powered Room Module (120 Watt, 2 Mic Max) / LPT-R24 ListenPoint High Powered Room Module (120 Watt, 4 Mic Max) -

The room module shall connect to a control unit using a standard Cat-5e cable and shall provide bi-directional communication with infrared microphones by means of an 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, R4, R12, R14, R22, R24

ListenPoint Room Module (RM)

Functionality Quick Reference



LPT-R2, R4, R12, R14, R22, R24

ListenPoint Room Module (RM)



Specifications*							
		LPT-R2	LPT-R4	LPT-R12	LPT-R14	LPT-R22	LPT-R24
Audio	Speaker Output	N/A		Four (4) amplifier channels w/ 2-pin euro connectors		Four (4) amplifier channels w/ 2-pin euro connectors	
	Paging Input	One (1) 2-pin Euro Connector, 8 ohm, 25 volt, 70 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 Frequency	N/A		100 Hz to 10 kHz, +/- 3 dB, < 2.0% THD, >60 dB SNR			
	Unbalanced Input to Speaker Frequency Response	N/A		20 Hz to 20 kHz, +/- 3 dB, < 0.1% THD, >80 dB SNR			
	Speaker EQ	N/A		Quickfilter®, 512 points of equalization by speaker model			
	Room EQ	Five (5) band parametric, Two (2) tone controls					
	Infrared Emitter	38 kHz uplink					
	Infrared Sensor	2.3 MHz, 2.8 MHz	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz	2.3 MHz, 2.8 MHz	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz	2.3 MHz, 2.8 MHz	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 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,
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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 AC power standards
	Line Cord Length	N/A		6.0 ft. (1.8 m)

Physical	Room Module Dimensions (H x W x D)	2.1 x 8.5 x 6.9 in. (5.4 x 20.4 x 17.5 cm)		
	Room Module w/ 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		
	Room Module Weight	1.75 lbs. (.8 kg)		
	Shipping Weight	3.0 lbs. (1.36 kg)		
	Room Module Compliance	CE, ROHS, FCC, Industry Canada		
	Power Supply Compliance	UL, CE, ROHS, FCC, Industry Canada		

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LPT-M1

ListenPoint M1 Microphone Kit



Configurations

LPT-M1

The M1 Microphone Kit provides exceptional audio quality, ease of use and years of dependable service. The intuitive design allows the user to control microphone volume/mute and auxiliary input volume. It communicates bi-directionally with the room module and auto registers once it is turned on and enters a room. This audio registration ensures simple operation with no user intervention. 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

- Simple, intuitive operation makes it user friendly.
- Four ways to use it: lanyard, handheld, belt worn, clothing worn - accommodates the user's preference.
- Automatic registration of microphones - use any microphone in any room without setting a channel.
- Unsurpassed audio quality ensures your message is heard.
- Microphone volume and auxiliary input volume can be controlled via the microphone.
- Attractive – lightweight – ergonomic design allows the user to focus on their presentation not the technology.
- Lithium ion battery technology results in long battery life, operation time and fast charging for the microphone.

Includes

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

Used With

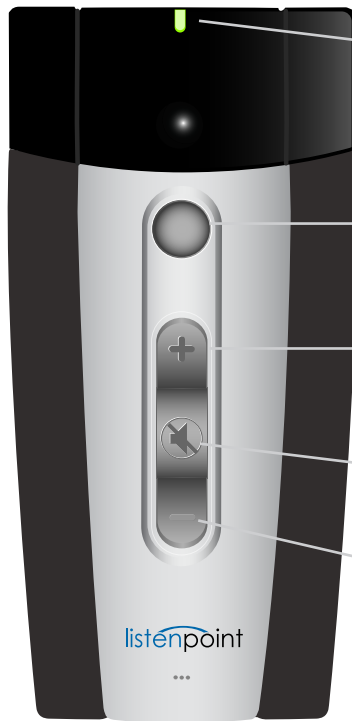
LPT-C2 ListenPoint Standard Control Unit
LPT-C6 ListenPoint Advanced Control Unit
LPT-R2 ListenPoint Room Module (2 Mic Max/ No Power Amp.)
LPT-R4 ListenPoint Room Module (4 Mic Max/ No Power Amp.)
LPT-R12 ListenPoint Powered Room Module (2 Mic Max/ 60 Watt)
LPT-R14 ListenPoint Powered Room Module (4 Mic Max/ 60 Watt)
LA-261 Lavalier Microphone
LA-262 Over-the-Head Microphone

Architectural Specifications

ListenPoint M1 Microphone Kit -

The microphone shall communicate bi-directionally with a room module and shall automatically select the transmission channel without user intervention. The microphone shall have a mute/volume control that adjusts the volume of the microphone and the volume of auxiliary input sources. The microphone shall incorporate a Li-ion battery and shall have an operational time of at least eight (8) hours and shall charge in 30 minutes or less. The microphone shall be capable of being used in multiple ways including handheld (sleeve), lanyard, belt worn or clothing worn. The microphone shall have an external microphone and auxiliary input. The ListenPoint M1 Microphone 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.

Mic Input: Connects optional external microphone.



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





Specifications*

Audio	Internal Microphone	-50 dBu nominal, 100 Ohms, 100 Hz to 15 kHz, +/- 3 dB, < 2.0% (THD), >60 dB SNR"
	External Microphone	-50 dBu nominal, 100 Ohms, 100 Hz to 10 kHz, +/- 3 dB, < 2.0% (THD), >60 dB SNR"
	Auxiliary Input	-10 dBu nominal, 10k Ohms, 20 Hz to 20 kHz, +/- 3 dB, < 0.1% THD, >80 dB SNR"
	Infrared Emitter	38 kHz sub carrier
	Infrared Sensor	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz

Controls & Indicators	Up Button	Volume up
	Mute Button	Mute microphone and/or GPI control
	Down Button	Volume down
	Soft Button	GPI 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	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	< one (1) hour charge time
	Operating Time	Eight (8) hours minimum
	Power Supply Input	100-240 VAC, 50-60 Hz, 0.4 A
	Power Supply Output	5 VDC
	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 grams)
	Shipping Weight	1.0 lbs. (.45 kg)
	Mounting	Multiple charging stations can be mounted together. Holes provided for wall mounting.
	Microphone Color	Dark Grey (Outer edges), Light Grey (Buttons)

Environmental	Temperature - Operation	-10°C (14°F) to +40°C (104°F)
	Temperature - 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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