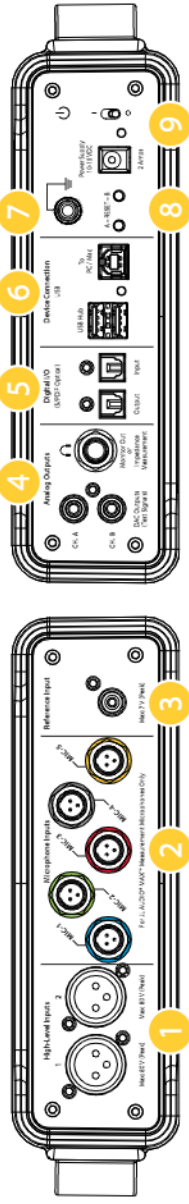
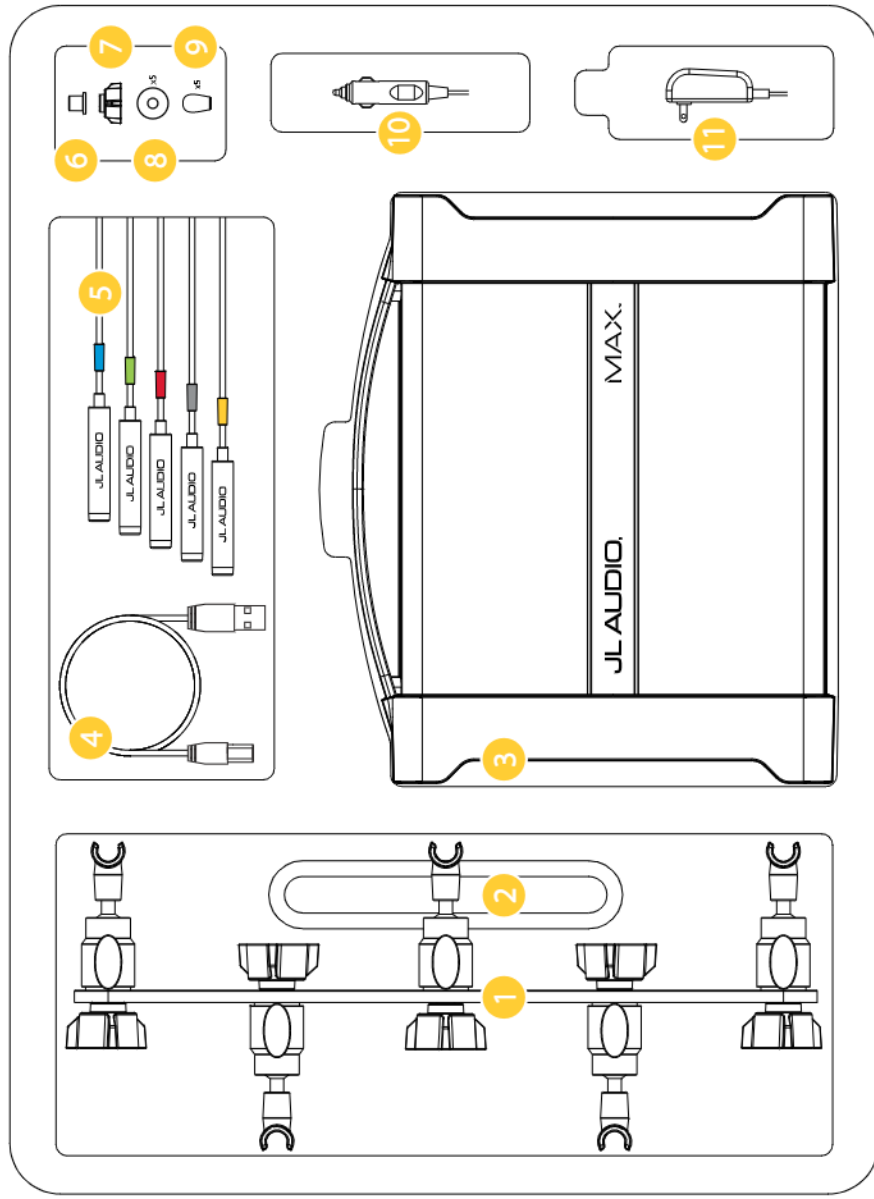


MAX™ Connections



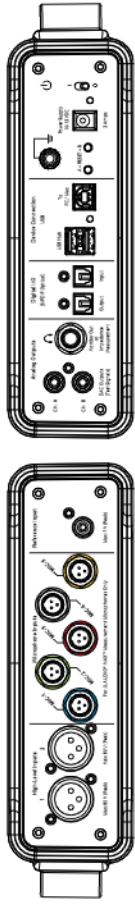
Connection	Functional Description	Technical Notes
1	High-Level Inputs For probing speaker level signals from source unit and amplifier outputs. Safe for probing Class D outputs.	Fully differential inputs accept up to 80 volts AC peak (pins 2 or 3 to GND). Safe up to 50 volts DC to GND. Full Size XLR jacks.
2	Microphone Inputs Use with JL Audio MAX™ microphones (only) to acquire acoustical data.	Max SPL: 133 dB (710mV) = 0 dBFS Mic Sensitivity: 7.6 mV/Pa, Mini XLR jacks.
3	Reference Input For connection of an external analog reference signal to measure transfer function. Disabled by default in favor of internal loopback reference.	Differential input accepts up to 7 V (peak). RCA-type jack
4	DAC Outputs (Test Signals) Can be used to pass any computer-sourced audio signals via MAX's onboard DAC.	2-channel unbalanced outputs (4 Vrms @ 0 dBFS) RCA-type jacks
	Monitor Out Can be used to monitor the audio signals present at High-Level Inputs 1 & 2.	>60 dB of adjustable level control via TuN™ software. 1/4" (6.35 mm) TRS headphone jack
5	Impedance Measurement For measurement of speaker impedance using TuN software. Connect speaker as shown at right.	 T = Speaker+ R = Speaker- S = N/A
	Input For connection of compatible digital audio signals from a source.	Accepts Linear PCM, 2.0-channel, S/PDIF digital audio signals with sample rates up to 192kHz. Toslink optical connection
6	Output For output of digital audio signals generated by TuN™ Software. Signals are the same as those output from the DAC outputs.	Outputs Linear PCM, 2.0-channel S/PDIF signals from TuN™ with sample rates up to 96kHz. Hardware limit is 192 kHz. Toslink optical connection
	USB Hub Allows connection of VXI/MVI amplifiers or computer peripherals sharing the MAX's main USB connection to the computer.	Up to 500 mA to power computer peripherals. NOT intended for charging mobile devices. Dual USB A ports
7	To PC / Mac For connection to a Windows® PC or Apple® computer for control using TuN™ Software.	USB LED alternates Green/Blue to indicate active communication with TuN™ Software. USB Type B connector.
	LED Indicator Indicates the status of USB communication with host computer and TuN software.	Off: no connection with a host computer Green: connected to host computer Blue/Green: communicating with TuN software
8	Button A Press and hold button A for seven seconds to reset the hardware to factory default settings.	Intended to reduce potential noise between the audio system and MAX™/TuN™ measurements
	Button A & B Press buttons A and B simultaneously, then release to enter Device Firmware Upgrade (DFU) Mode	USB LED illuminates Pink for one second
	Button B Press and release button B once to reboot	Power switch LED changes from Green to Blue
9	Power Supply DC power input jack	Equivalent to an on/off power cycle.
	Power switch	Operating voltage: 10-15 VDC (1A typical, 2A with peripherals connected to USB Hub) I = ON (Green LED) O = OFF

MAX™: Audio Measurement System
Connection Guide

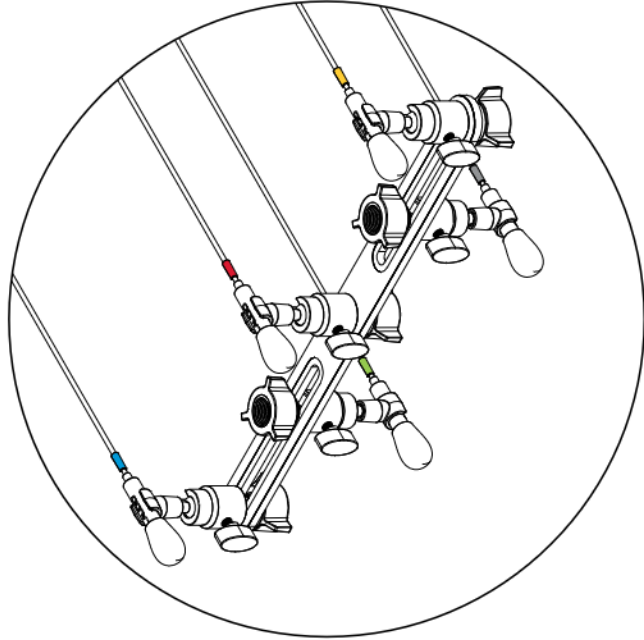


- 1 Microphone Array Holder Assemblies (5)
Microphone Array Bar
- 2 Microphone Array Extension
- 3 MAX™ Hardware Interface
- 4 USB A/B Cable
- 5 MAX™ Measurement Microphones (5)
- 6 Microphone Calibration Adaptor
- 7 Microphone Array Extension Thumbscrew
Accepts 5/8"-27 and 1/4"-20 male threads
- 8 Extra Washers (5)
- 9 Foam Microphone Tips (5)
- 10 12V DC Power Cable
- 11 AC Power Adaptor

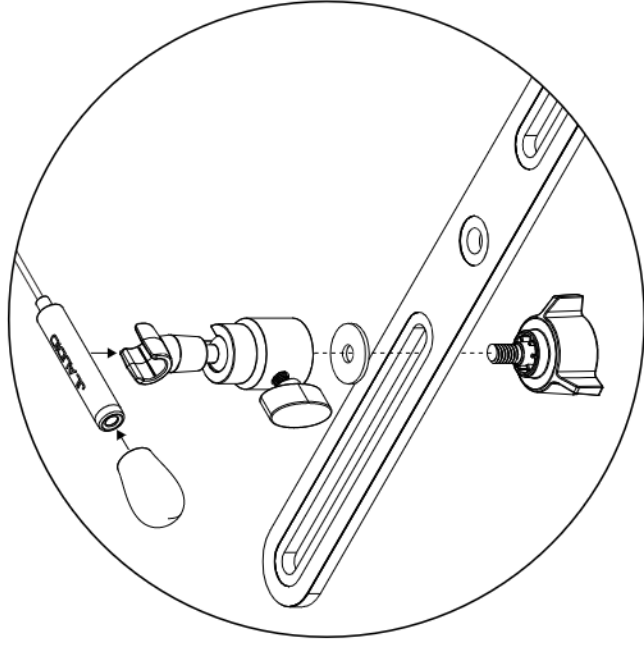
MAX™ Connections - Notes



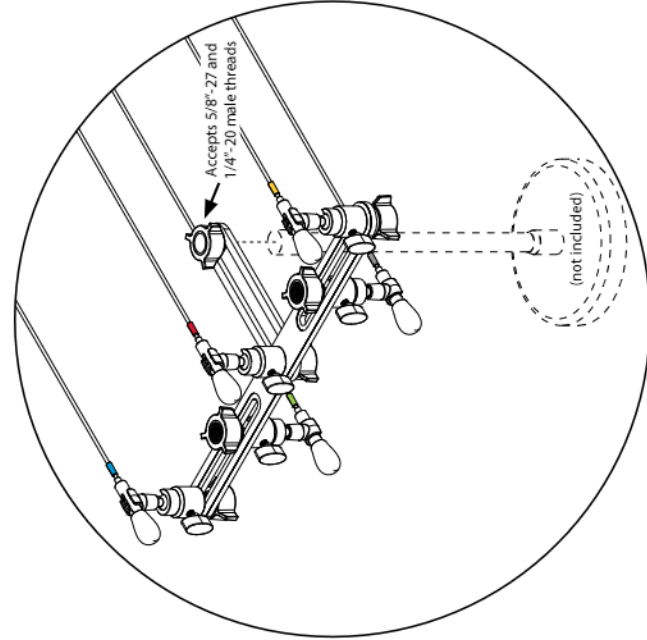
MAX™ Microphone Array
Recommended microphone arrangement for spatial averaging with the Reference Mic (red) in the center position



MAX™ Microphone Holder Assembly



Optional Stand Mounting - Offset



Optional Stand Mounting

