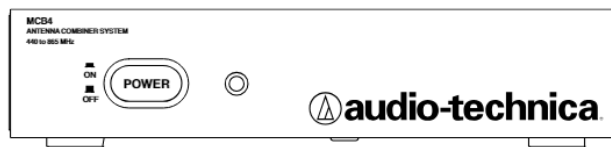


MCB4Antenna Combiner, 440 to 865 MHz
Installation and Operation

The Audio-Technica MCB4 Antenna Combiner allows the signals of up to four M3 Wireless In-Ear Monitor stereo transmitters to be combined onto a single transmitting antenna, reducing rack clutter.

A wide-band unit that operates over the 440-865 MHz range, the MCB4 is designed to complement Audio-Technica M3 Wireless In-Ear Monitor Systems. It is also suitable for many other in-ear wireless systems (with external BNC antenna connections) operating within the 440 to 865 MHz range.



The MCB4 provides one output and four isolated transmitter inputs. All RF connectors are BNC-type.


Four jacks on the rear panel (controlled by the unit's power switch) provide 12V DC (center positive) to power as many as four transmitters operating on 12 volts at up to 600 mA each. Included with the unit

are four DC cables appropriate for use with M3T (or like-powered) transmitters. The 12-volt supplies for powering transmitters are short-circuit protected. The unit features all-metal construction for extreme durability and protection from radio frequency interference.

- Broadband UHF operation (440-865 MHz range)
- Combines the signals of up to four wireless in-ear monitor transmitters into one antenna
- Centralized power supply with ability to power four individual transmitters
- Maintains clean signals with low distortion
- Includes hardware for front-mounting the antenna for improved performance
- Includes adapters to allow the unit to be mounted into a single rack space

Prior to use of this product, review all safety markings and instructions.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
<p>To prevent electric shock, do not remove the cover. There are no user-serviceable parts inside. Internal adjustments are for qualified professionals only. Refer all servicing to qualified service personnel.</p> <p>Pour prévenir un choc électrique, ne pas ouvrir le couvercle. Il n'y a aucune pièces de rechanges à l'intérieur. Tout ajustement interne doit être fait par une personne qualifié seulement. Référez tout réparation au personnel qualifié.</p>			

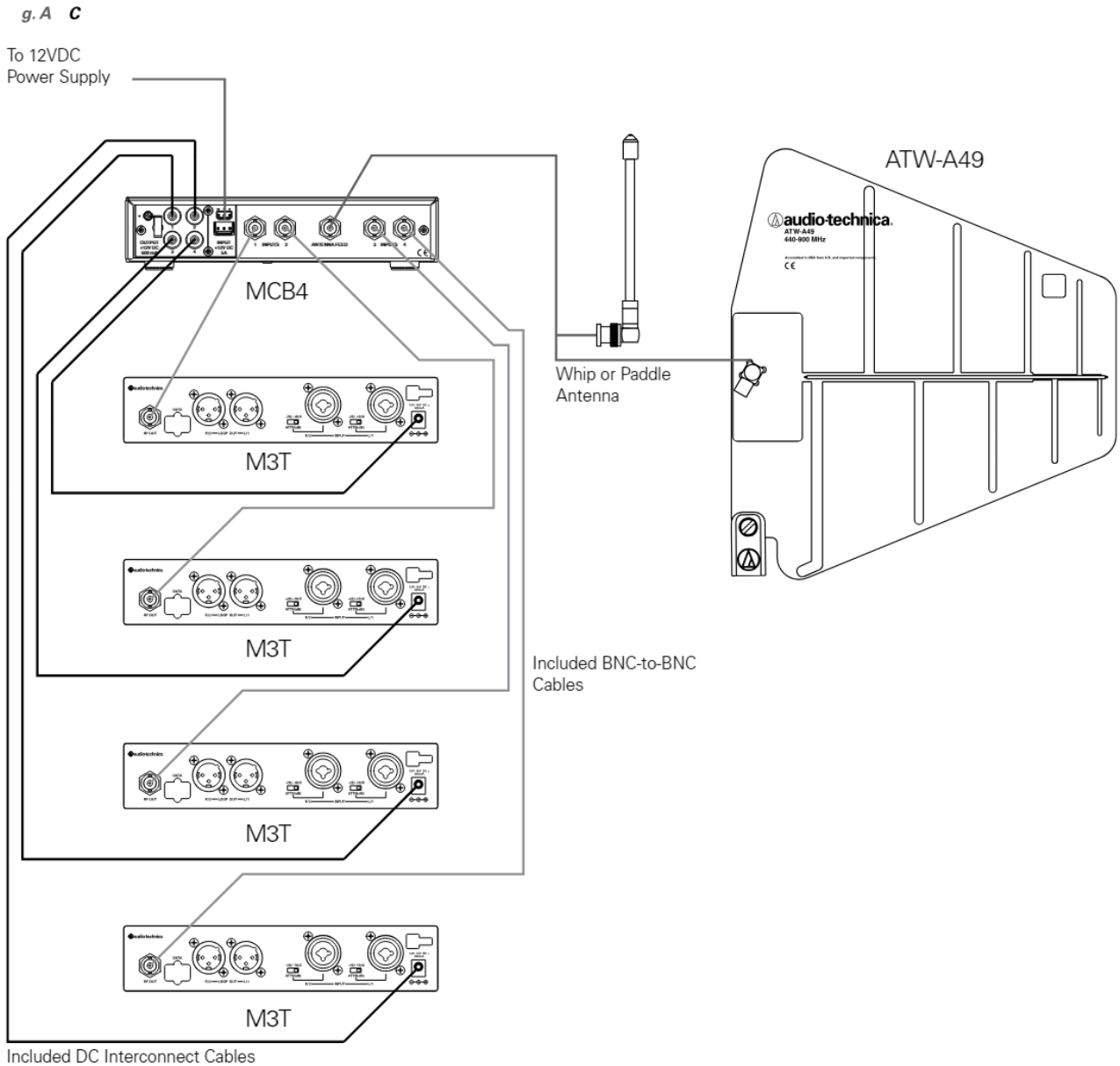
	<p>Warning/Attention: To prevent fire or shock hazard, do not expose this appliance to rain or moisture. Pour prévenir feu ou choc électrique, ne pas exposé l'appareil à la pluie ou à l'humidité.</p>
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<p>WARNING: This apparatus must be grounded. This product is a safety class 1 product. There must be an uninterruptible safety earth ground from the main power source to the product's AC input. Whenever it is likely that the protection has been impaired, disconnect the power cord until the ground has been restored.</p> <p>ATTENTION: Cet appareil doit être mise à la terre. Cet appareil est de classe de sûreté 1. Il doit y avoir un ininterrompable de mise à la terre de sécurité provenant de la source principale de courant de l'appareil de l'entrée du courant alternatif. Quand la protection a été affaiblie, débrancher le fil de courant jusqu'à la mise à terre a bien été réétablie.</p>
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<p>The detachable IEC type power input cord supplied is intended for use in regions with mains voltage in the range of 100–125VAC only. Use only the furnished power cord that includes the appropriate NEMA 5-15P/ANSI C73.11 type attachment plug.</p> <p>For use in geographical areas with mains voltage outside of the range 100–125VAC, it is necessary for the user to utilize a power cord rated and configured for operation in their region. Replace the supplied power cord with a cord rated for correct voltage operation.</p>

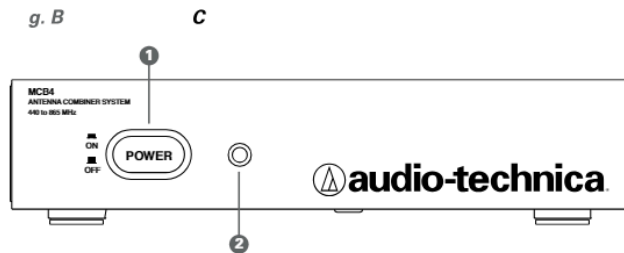
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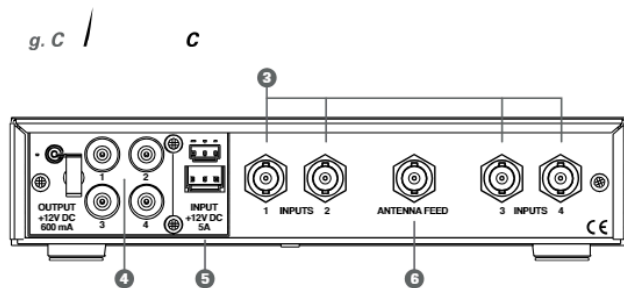


1. Use the included BNC-to-BNC cables to connect the RF OUT of each M3T Transmitter to the INPUTS of the MCB4 Antenna Combiner.
2. Attach the antenna (one included with each M3T Transmitter), or an optional ATW-A49S directional antenna, to the ANTENNA FEED connector on the MCB4 Antenna Combiner.
3. If desired, connect the MCB4 DC OUTPUT to the DC INPUT of each M3T transmitter.
4. Plug the included desktop power supply of the MCB4 into the DC power input. The power supply is designed to operate properly from any AC power source 100-240V, 50/60 Hz without user adjustment. Simply connect the power supply to a standard AC power outlet.

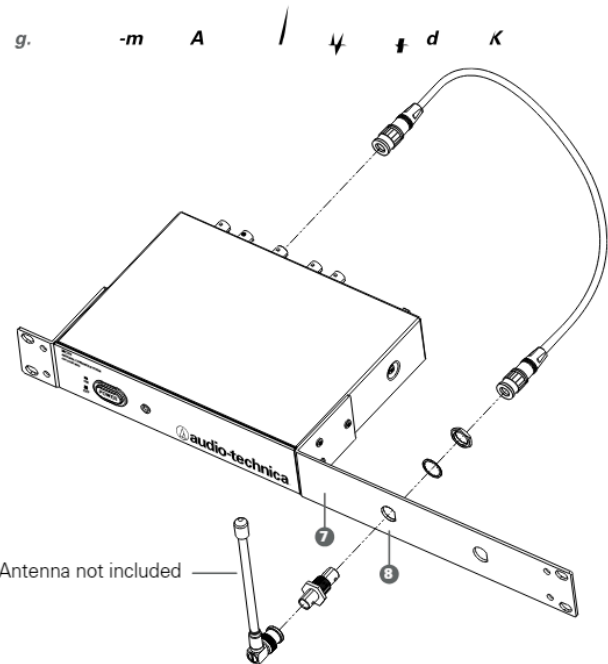
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1. POWER SWITCH: Press switch to apply power to unit. Press again to turn unit off.
2. POWER INDICATOR: The indicator will light when power is applied.



3. INPUTS 1 - 4: BNC isolated transmitter antenna inputs. Maximum RF input is +20 dBm or 100mW.
4. DC OUTPUT JACKS: Provides +12V DC (center positive) at up to 600 mA from each jack to power M3T transmitters.
5. DC POWER INPUT: 3-pin header connector for +12V DC power input.
6. ANTENNA FEED: Attachment point for a standard 50 ohm antenna.



Antenna not included

7. The included rack-mount hardware kit (includes rack ears and hardware) is provided to permit attachment in a standard 19" audio equipment rack.
8. The antenna may be mounted on the front of the long rack ear. The following parts are included in the kit: Long rack ear; short rack ear; one BNC bulkhead connector with mounting hardware; one 34" BNC-to-BNC cable; six rack-mount screws.

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- Remove the nut and lock-washer from the bulkhead connector. Install the connector *from the front* into one of the two holes in the long rack ear (see **g.**). Note that the flat on the threaded section must be aligned with the flat in the panel hole.
- Install the lock-washer and nut (included) over the back of the bulkhead connector. Secure the connector from the back with its lock-washer and nut, tightening the nut firmly.
- Connect one end of the provided BNC-BNC cable to the antenna feed input jack on the back of the MCB4. Attach the other end of the cable to the back of the BNC bulkhead connector. Make certain the bayonet twist-ring is *fully* latched on the connector at both ends.
- Finally, mount the transmitter antenna to the BNC bulkhead connector.

Note: To mount two MCB4 units side by side in a single rack space, use Audio-Technica AT8630 Joining-plate Kit.

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