

# Professional UHF Wireless Systems

## ATW-A20 Ground-plane Antenna System

### Installation and Operation



The ATW-A20 consists of two base assemblies and twelve antenna rods. For optimal reception, interchangeable antenna rods correspond to the operating frequency of the wireless system being used.

To assemble, screw three of the silver-tipped antenna rods into the downward-angled connectors of each base assembly. These bottom antennas are used for all operating frequencies.

Using the table below, select the top antenna rods (distinguished by tip color) that correspond with the operating frequency of the wireless system. Screw the appropriate antenna rod into the top of each base assembly.

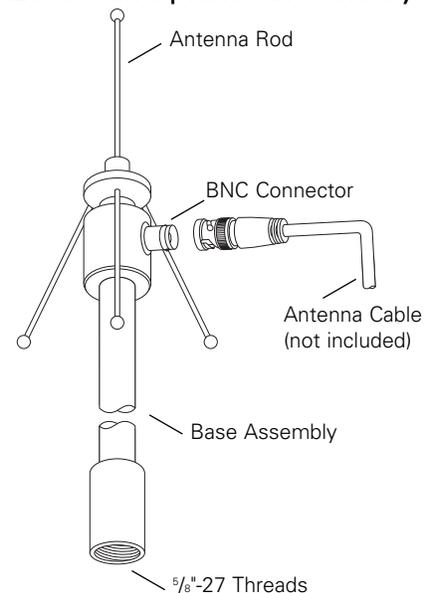
| UHF Frequency Range | Antenna Tip Color |
|---------------------|-------------------|
| 656-668 MHz         | Brass             |
| 728-746 MHz         | Silver            |
| 800-865 MHz         | Black             |

Connect the ATW-A20 ground-plane antennas to the antenna inputs of either a wireless receiver or an antenna distribution system. Use RG58 cable for cable lengths of up to 25'. For cable lengths greater than 25', RG8 (low loss) RF cable is recommended. RG8 cable lengths over 100' may cause significant signal loss.

For best performance, the two ground-plane antennas should be at least 3' apart. Some experimentation with positioning may be required. For optimum operation, at least one antenna should remain within sight of the wireless microphone transmitter at all times.

The  $\frac{5}{8}$ "-27 threads in the end of the base assembly will mate with any standard microphone stand or  $\frac{5}{8}$ "-27 stand adapter.

**Figure 1**  
ATW-A20 Ground-plane Antenna System



#### One-Year Limited Warranty

Audio-Technica brand products purchased in the U.S.A. are warranted for one year from date of purchase by Audio-Technica U.S., Inc. (A.T.U.S.) to be free of defects in materials and workmanship. In event of such defect, product will be repaired promptly without charge or, at our option, replaced with a new product of equal or superior value if delivered to A.T.U.S. or an Authorized Service Center, prepaid, together with the sales slip or other proof of purchase date. **Prior approval from A.T.U.S. is required for return.** This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use product in accordance with instructions. This warranty is void in the event of unauthorized repair or modification, or removal or defacing of the product labeling.

**For return approval and shipping information**, contact the Service Dept., Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224.

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This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

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