

Professional UHF Wireless Systems

ATW-D70 and ATW-D90

UHF Active Unity-gain Antenna Distribution Systems

Installation and Operation

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

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|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN | AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR |  |
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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.

Pour prévenir un choc électrique, ne pas ouvrir le couvercle. Il n'y aucune pièces de rechanges à l'intérieur. Tout ajustement interne doit être fait par une personne qualifié seulement. Référez tout réparation au personnel qualifié.

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|  | 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. |
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|  | Caution/Avis: Replace with same type 2.5A 250V fuse. Utiliser un fusible de rechange de même type de 2.5A 250V. |
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ATW-D70 and ATW-D90 Installation and Operation

The ATW-D70 is a UHF 728-750 MHz active unity-gain antenna distribution system. It has two BNC antenna inputs, one for each antenna of a UHF diversity wireless system. Each channel provides amplification to restore the loss due to signal-splitting. Each nominally unity-gain input/amplifier section has four isolated BNC outputs.

Additionally, the ATW-D70 has four 12V DC (center *positive*) outputs to power up to four ATW-R19 (or like-powered) receivers.

The ATW-D70 is supplied with rack adapters for use in standard 19" racks, eight BNC to BNC coaxial interconnect cables, four DC interconnect cables, and an AC power cord.

The ATW-D90 is the same as the ATW-D70 except for 940-955 MHz operation.

Front Panel Controls and Functions (Fig. A)

1. Power Switch: Press switch on, and the "Power" indicator will light in a few seconds.
2. Power Indicator.

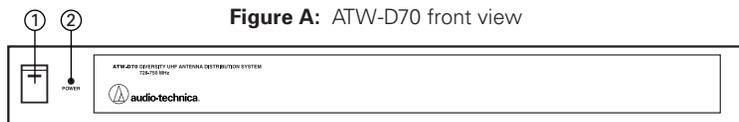


Figure A: ATW-D70 front view

Rear Panel Controls and Functions (Fig. B)

3. AC Power Input: Attach the included AC power cord here.
4. Fuse Holder: To check or replace fuse, remove holder with a small screwdriver. Replace fuse with 250V 2.5A fuse only.
5. Channel B Antenna Input Jack: Attach UHF antenna here. (Antenna and adapter both included with ATW-R19 receiver.)
6. DC Output Jacks: Connect the included DC interconnect cables here to supply 12V DC (center *positive*) to up to four ATW-R19 (or like-powered) receivers. These output jacks also can power up to four ATW-R73 (or like-powered) receivers, when used with the optional ATW-RDCP polarity-inverting DC interconnect cables.
7. Channel B Distribution System Output Jacks: Connect to antenna inputs on up to four receivers with included BNC to BNC interconnect cables. Unused outputs do not require termination.
8. Channel A Antenna Input Jack.
9. Channel A Distribution System Output Jacks.

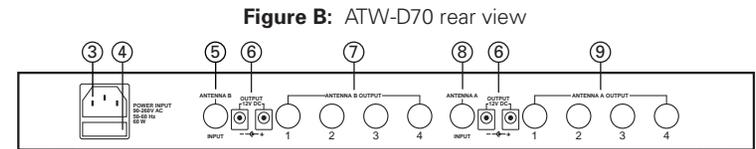


Figure B: ATW-D70 rear view

Specifications

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|--------------------------------|---|
| Input Impedance | 50 ohms |
| Output Impedance | 50 ohms |
| Useable Frequency Range | |
| ATW-D70 | 728-750 MHz |
| ATW-D90 | 940-955 MHz |
| Nominal Amplifier Gain | 0 dB, ±3 dB |
| Power Supply Input | 90-260V AC, 50-60 Hz, 60W |
| DC Output | 12V DC, center <i>positive</i> , 500 mA maximum per jack |
| Dimensions | 16.93" (430.0 mm) W x 1.92" (48.8 mm) H x 7.60" (193.0 mm) D |
| Weight | 5.7 lbs (2.6 kgs) |
| Accessories Included | 1 power cord, 8 interconnect cables (BNC to BNC), 4 ATW-RDCN DC interconnect cables, 1 rack-mount kit |
| Optional Accessories | ATW-RDCP: Polarity-inverting DC interconnect cables (set of four) for use with ATW-R73 or like-powered receivers (center <i>negative</i> DC jacks). |

ATW-RA1: Rack-mount antenna kit brings antenna inputs to the front of unit for ease of setup, or when receiver is enclosed in a metal rack. Includes a pair of extendible antennas suitable for UHF or VHF use.

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 the 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.

Except to the extent precluded by applicable state law, **A.T.U.S. will have no liability for any consequential, incidental, or special damages; any warranty of merchantability or fitness for particular purpose expires when this warranty expires.**

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

Outside the U.S.A., please contact your local dealer for warranty details.

www.audio-technica.com

Extensive information about using wireless systems and accessories is available on the Audio-Technica Web site at www.audio-technica.com.



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