

Thank you for purchasing a DX Antenna product.
 ● Please read this instruction manual carefully prior to using the product to ensure proper understanding and usage.
 ● Keep this manual in a safe place for future reference.

SMART ANTENNA DTA-5000

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- Key Features**
- The antenna direction can be adjusted for optimal reception according to the received channel and in synchronization with an ATSC Receiver (Note 1).
 - Directivity is 360 degrees, and the direction can be automatically selected from 16 phases in the scale. Airwaves from any direction can be received.
 - You need only this antenna to receive all TV channels on VHF and UHF.
 - With the built-in low noise amplifier and automatic gain controller, the antenna can be used in locations where weak airwaves are received as well as locations where strong airwaves are received.

(Note 1) The ATSC Receiver with EIA/CEA-909 Standard Interface

IMPORTANT SAFEGUARDS

⚠ WARNING

The followings indicate a potentially hazardous situation that could result in serious injury or death if the instructions are ignored and the product is handled incorrectly as a result.

- Experience and knowledge of certain techniques are required for work relating to antennas and television reception. Contact the retailer that you purchased the antenna from or a business that provides this service when required.
- Do not affix any label on, paint, or cover the Smart Antenna Unit and elements.
- Do not install the antenna in locations such as the following:
 - Near power lines, neon signs, overhead wires and telephone wires
 - Where the construction is not solid, the ground is soft, it is rickety, or it vibrates
 - Where the antenna may impede the passage of people or vehicles
 - Near a chimney or where the temperature becomes high
- Do not conduct installation work when the weather is bad due to strong wind, rain, snow, fog or other conditions. This can cause injury resulting from the product falling or being toppled.
- Do not conduct installation work when there are poor footholds including an unstable position. This can cause injury resulting from falling or slipping.
- As electric currents flow through the coaxial cable that is connected to the antenna, do not nick, bend forcefully, put anything heavy on, or heat the coaxial cable. This can cause fire or an electric shock.
- Do not tamper with the interior of the antenna by opening the case or disassembling the antenna. This can cause an electric shock or injury. For inspection, adjustment or repair of the interior, contact a retailer or a business that provides this service.
- Do not stand on the antenna or installation devices or hang on them. This can cause damage or injury resulting from the product falling or being toppled. Caution is especially required in households with a child.
- Do not touch the antenna or cables when there is lightning. This can cause an electric shock.
- Do not drop components of the antenna or tools from a high position. This can cause injury.
- Firmly secure screws and bolts used for assembly or installation by tightening them with the specified torque if it is provided. Failure to do so can cause injury resulting from the product falling or being toppled.
- Do not conduct any maintenance work such as inspection of the antenna or installation devices when the weather is bad due to wind, rain, thunder, lightning, snow or other conditions. This is dangerous and can cause injury resulting from the product falling or being toppled.

⚠ CAUTIONS

The followings indicate a potentially hazardous situation that could result in equipment damage or malfunction if the instructions are ignored and the product is handled incorrectly as a result.

- After a typhoon or snowfall, an anomaly may be found in the antenna or installation devices or they may have been loosened. If you leave them in this state, damage may be caused and that may result in injury or a malfunction. For inspection, contact the retailer that you purchased the antenna from or a business that provides this service.
- Do not hang your laundry or other items on the antenna or installation devices. This can cause damage or injury resulting from the product being toppled.
- There may be restrictions on installation of an antenna if you live in a condominium or apartment building. Make sure you ask your management committee, management office, residents' association or others about such restrictions before installing the antenna.
- Install the antenna in a location where no one can touch the antenna elements. Failure to do so may cause injury such as an injured eye resulting from being struck by an element tip.

Before Handling the Product

- This product is intended for home use.
- This antenna can only be used with an ATSC Receiver that has a smart antenna feature (that conforms to the EIA/CEA-909 standard) or a television with a built-in ATSC Receiver.
- Read this instruction manual thoroughly before starting assembly or installation work.
- Do not conduct installation work when the weather is bad due to strong wind, rain, snow or other conditions as it is dangerous.
- Be sure not to drop, bump or apply unnecessary pressure on the antenna.
- When installing the product in locations including a roof, wall or handrail of a balcony, make sure they are strong enough. Secure the product firmly so that it can hold for a prolonged period even if there are strong winds due to a typhoon or other conditions. Consider the safety and reliability of installation sufficiently to prevent the product from falling or being toppled.
- Supply power after making sure all cables are completely connected.

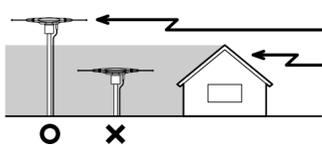
Components

- | | |
|---|---|
| ① Smart Antenna Unit | 1 |
| ② Elements | 4 |
| ③ Antenna Control Box (DPI-10) | 1 |
| ④ Bracket A | 1 |
| ⑤ Bracket B | 1 |
| ⑥ Bracket Cover | 1 |
| ⑦ Screws (Small: No.10-32×7/16) | 4 |
| ⑧ Screws (Large: No.10-32×1¼) | 2 |
| ⑨ Weather Boot | 1 |
| ⑩ Screws to secure elements (small: No.8-32×7/16) | 4 |
| ⑪ Antenna Control Cable (1.64 ft) | 1 |
| ⑫ Coaxial Cable (1.64 ft) | 1 |
- Caution:**
 (NOT INCLUDED)
 Items required for installation
 ① Mast (ø1.26" - ø1.69")
 ② Screwdriver (Phillips)
 ③ Coaxial Cable (RG6 or RG59)

Note: This antenna system does not include a DIGITAL (ATSC) Receiver.

Installation

- To receive terrestrial digital broadcasts, airwaves must be over a certain level of strength. If the antenna is installed in locations where airwaves are weak or the strength level of airwaves is lowered by obstacles in the surroundings that block airwaves or reflect them, terrestrial digital broadcasts may not be received at all.
- Install the antenna horizontally by using a strong mast (ø1.26" - ø1.69") in a location where the antenna does not impede people's daily activities.
- When the antenna is installed in a balcony, use mounting hardware (not included) compatible with a mast that has a 1.26" to 1.69" diameter.
- Fasten the antenna firmly to a mast.
- The reception direction of the antenna can be automatically selected from a scale of 360 degrees (in 16 phases) with the secured antenna controlled by signals from an indoor Receiver. However, if the antenna is installed in a location where there is a metal obstacle in the surroundings or where signals are blocked by obstacles such as a building, a wall or a tree beside the antenna, selecting the reception direction may have no effect and pictures may be distorted.
- Install the antenna as high as possible so that obstacles will not hamper reception in the direction that signals or airwaves are coming from.
- When the antenna is installed on a roof or the ground, secure the mast firmly by using a stay wire in three to four different directions.
- Do not install the antenna by hanging it upside down from a ceiling, etc.



Specifications			
Smart Antenna Unit			
Band Zone	VHF (Low)	VHF (High)	UHF
Frequency	54 to 88 MHz	174 to 216 MHz	470 to 806 MHz
Gain	5 to 20 dB	10 to 20 dB	15 to 25 dB
Directivity	360 degrees, 16 directions (automatic)		
Impedance	75 Ω (F-type)		
Polarization	Horizontal		
Power Consumption	12 VDC, 150 mA (max.)		
Compatible Mast Diameter	ø1.26 to 1.69 [inch] ø32 to 43 [mm]		
Dimensions *1	4-11/16 (H) x 28-13/16 (W) x 28-13/16 (D) [inch] 115 (H) x 735 (W) x 735 (D) [mm]		
Weight	1.5 kg 3.31 lb		

Specifications are subject to change without notice due to product improvements.
 *1 Including VHF Element

Antenna Control Box (with EIA/CEA-909 Standard Interface)	
Frequency	54 to 806 MHz
Impedance	75 Ω (F-type)
Antenna Control Jack	Modular Antenna Control Connector
Dimensions	1-11/16 (H) x 3-7/16 (W) x 2-13/16 (D) [inch] 33.4 (H) x 82 (W) x 61 (D) [mm]
Weight	0.15 kg 0.33 lb

Manufactured by: **DX ANTENNA CO., LTD.** Kobe, Japan

FUNAI CORPORATION LIMITED WARRANTY

Funai Corporation will exchange or repair this product, at its option, in the event of defect in materials or workmanship as follows:

EXCHANGE DURATION:
 FUNAI CORPORATION will exchange for a new unit without charge for a period of ninety (90) days from the date of original retail purchase. FUNAI CORPORATION will exchange for a factory-service-to-new-condition unit for a charge of a retail price unit for the period of ninety one (91) days to three hundred sixty five (365) days from the date of original retail purchase.

REPAIR DURATION:
LABOR: FUNAI CORPORATION will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.
PARTS: FUNAI CORPORATION will provide parts to replace defective parts without charge for a period of one (1) year from the date of original retail purchase. Certain parts are excluded from this warranty.

LIMITS AND EXCLUSIONS:
 THIS WARRANTY IS EXTENDED ONLY TO THE ORIGINAL RETAIL PURCHASER. A PURCHASE RECEIPT OR OTHER PROOF OF ORIGINAL RETAIL PURCHASE WILL BE REQUIRED TOGETHER WITH THE PRODUCT TO OBTAIN EXCHANGE OR SERVICE UNDER THIS WARRANTY. This warranty shall not be extended to any other person or transferee. This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced or missing. This FUNAI CORPORATION Limited warranty applies only to product purchased and used in the United States. This warranty only covers failures due to defects in material or workmanship, which occur during normal use. It does not cover damage which occurs in shipment, or failures which are caused by repairs, alterations, or parts not supplied by FUNAI CORPORATION, or damage which results from accident, misuse, abuse, mishandling, misapplication, alteration, faulty installation, improper maintenance, commercial use such as hotel, rental or office use of this product, or damage which results from fire, flood, lightning or other acts of God.

THIS WARRANTY DOES NOT COVER PACKING MATERIALS, ANY ACCESSORIES (EXCEPT REMOTE CONTROL UNITS), ANY COSMETIC PARTS, COMPLETE ASSEMBLY PARTS, DEMONSTRATION OR FLOOR MODELS.

FUNAI CORPORATION AND ITS REPRESENTATIVES OR AGENTS SHALL IN NO EVENT BE LIABLE FOR ANY GENERAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR OCCASIONED BY THE USE OF OR THE INABILITY TO USE THIS PRODUCT. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES INCLUDING THE WARRANTY OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, THAT ARE HEREBY DISCLAIMED BY FUNAI CORPORATION AND ITS REPRESENTATIVES OR AGENTS IN THE UNITED STATES.

ALL WARRANTY INSPECTIONS AND REPAIRS MUST BE PERFORMED BY A FUNAI AUTHORIZED CENTER. THIS WARRANTY IS VALID WHEN THE PRODUCT IS DELIVERED PREPAID TO A FUNAI AUTHORIZED SERVICE FACILITY.

IMPORTANT:
 THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. IF AT ANY TIME DURING THE WARRANTY PERIOD YOU ARE UNABLE TO OBTAIN SATISFACTION WITH THE EXCHANGE OR REPAIR OF THIS PRODUCT, PLEASE CONTACT FUNAI CORPORATION.

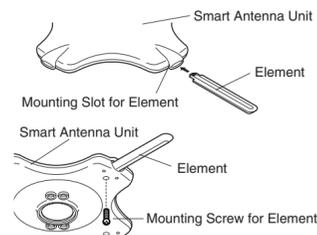
ATTENTION:
 FUNAI CORPORATION RESERVES THE RIGHT TO MODIFY ANY DESIGN OF THIS PRODUCT WITHOUT PRIOR NOTICE.
 For information about your product, or for information on how to exchange or repair your product, telephone or write to the following:

FUNAI CORPORATION
 Customer Service
 19900 Van Ness Avenue, Torrance, CA 90501
CALL 1-800-481-1652
 Head Office: 100 North Street, Teterboro, NJ 07608
 PLEASE DO NOT SHIP YOUR UNIT TO THE TETERBORO ADDRESS.

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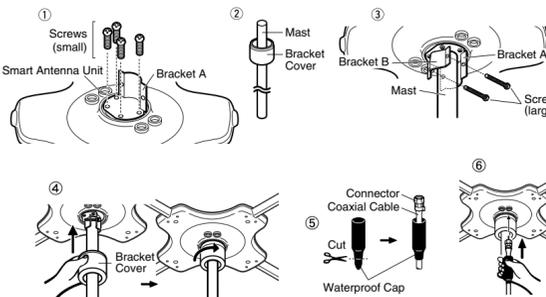
Assembly

1. Insert the element into the opening for attaching that element in the Smart Antenna Unit.
2. Secure the element by tightening the screw included for attaching the element.



Mounting Antenna on Mast

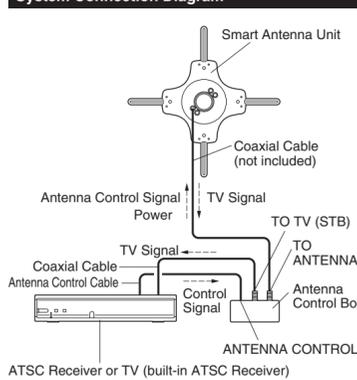
1. Attach bracket A to the Smart Antenna Unit using the 4 screws. (Fig. ①) (screw torque: approximately 3N·m)
2. Place mast through the mounting bracket cover. (Fig. ②)
3. Insert mast between bracket A and bracket B, then tighten firmly using 2 screws. (Fig. ③) (screw torque: approximately 3N·m)
4. Attach the mounting bracket cover to the Smart Antenna Unit by turning cover clockwise until you hear a click. (Fig. ④)
5. Cut the end of the Weather Boot to match the thickness of the coaxial cable, then insert the cable. (Fig. ⑤)
6. Connect the coaxial cable to the body and cover the connector plug with the Weather Boot. (Fig. ⑥)



- Caution:**
- The antenna can normally be pointed in any direction during installation. If fine-tuning is necessary, the antenna can be turned slightly until the best picture is received.
 - Install the antenna using a strong mast in a location where people are not likely to come in contact with the antenna.
 - Do not disassemble the product or modify it.

- When the antenna is connected with the Antenna Control Box, make sure that an RG-59 coaxial cable or greater (not included) is used. Also make sure the coaxial cable between the Smart Antenna Unit and the Antenna Control Box is 150 ft long or less when wiring is carried out.
- <Note> No direction adjustment is required when this antenna is installed.

System Connection Diagram



ATSC Receiver or TV (built-in ATSC Receiver)
 * Conforms to the EIA/CEA-909 standard

- For connection details, please refer to the instruction manual of the ATSC Receiver.
- Do not connect any other device to the coaxial cable between the Smart Antenna Unit and the Antenna Control Box as electric currents and control signals are piggybacked on the coaxial cable. Never short out the conductor and the braided wire in the coaxial cable. This can cause damage.
- Turn on the power for the ATSC Receiver after all devices are connected.
- This antenna is intended for use with one ATSC Receiver or one TV (built-in ATSC Receiver) only. Do not connect the antenna to two or more of these devices using a splitter, etc.
- Do not connect any antenna (such as a Yagi-Type antenna) other than a Smart Antenna to the antenna terminal on the Antenna Control Box.

Operating Antenna

1. Confirm that the cables are connected according to the System Connection Diagram, and then turn on the power switch of ATSC Receiver.
2. Make adjustments by using the "Antenna Setting" for the ATSC Receiver. (See the instruction manual included with the ATSC Receiver for details.)
3. Reception of the antenna is automatically adjusted to the best setting by control signals from the ATSC Receiver.

<NOTE>
 Do not reverse connect the antenna terminal and the TV (STB) terminal on the Antenna Control Box. This can cause the receiver to fail.