aceline

User Manual

TV Antenna
AC-OAU30WN

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Dear Customer,

Thank you for choosing our products.
We are pleased to offer you appliances and devices designed and manufactured to the highest standards of quality, functionality, and design. Before using the device, please read this manual carefully. It contains important information regarding your safety, as well as recommendations for the proper use and care of the product. Please keep this manual in a safe place and use it as a reference guide during future operation of the product.

Intended Use

A TV antenna is a device designed to receive analog and digital TV signals.

Safety Precautions

- Use the device only for its intended purpose.
- Before connecting the antenna to a TV or another device, disconnect these devices from the power supply.
- Disconnect the antenna from all other devices if you do not intend to use it for a long time, as well as before a thunderstorm. Do not touch the device and the power cord during a thunderstorm.
- Do not use this device in the immediate vicinity of water sources. Never place the device under running water or submerge it completely in water.
- Never disassemble the device yourself to avoid electric shock. This device contains no user-serviceable parts.
- Before connecting the device to the power supply, ensure that it is assembled correctly. Before each use, ensure that all its parts are securely fixed.
- Use only the components supplied with the device. Using any other components may pose a threat to life and health, and will void your right to free warranty service.
- Protect the device from impacts, drops, vibrations, and other mechanical stress.
- This device is not intended for use by children or persons with reduced physical, sensory, or mental capabilities, unless they are supervised by a person responsible for their safety. Do not allow children to play with the device.
- This device is not intended for commercial use.

Specifications

- Model: AC-OAU30WN.
- Trademark: DEXP.
- UHF frequency range: 470–862 MHz.
- Gain: UHF 30 dBi.
- Power type: USB 5 V.
- Placement: Outdoor.
- Impedance: 75 Ohm.
- Scope of application: Domestic.

Package Contents

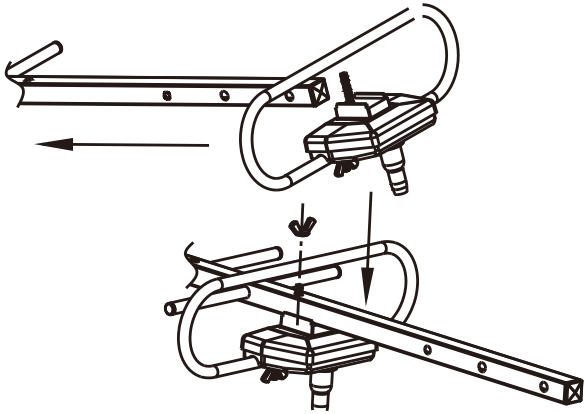
- Device.
- User manual.

Operating Instructions

Installation

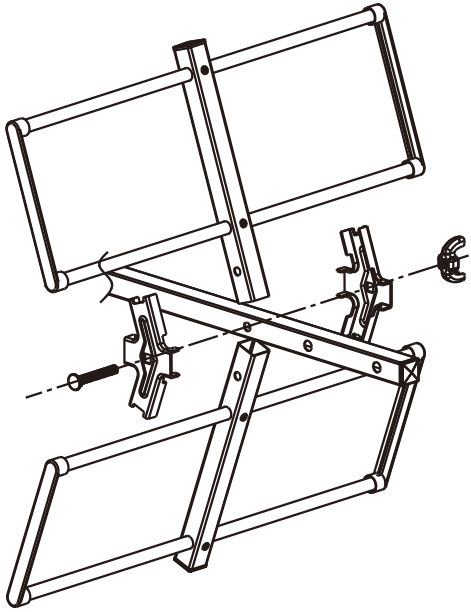
Step 1

Install the dipole on the aluminum base of the antenna.



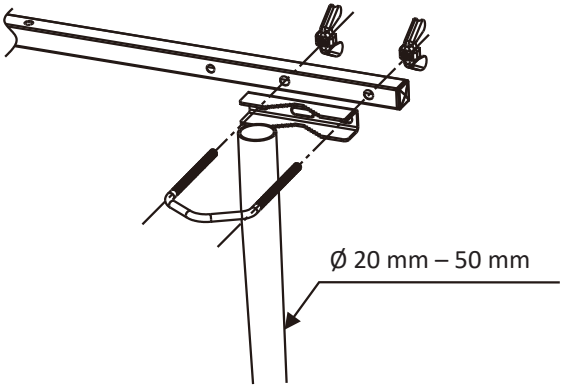
Step 2

Attach the antenna reflector to the aluminum base.

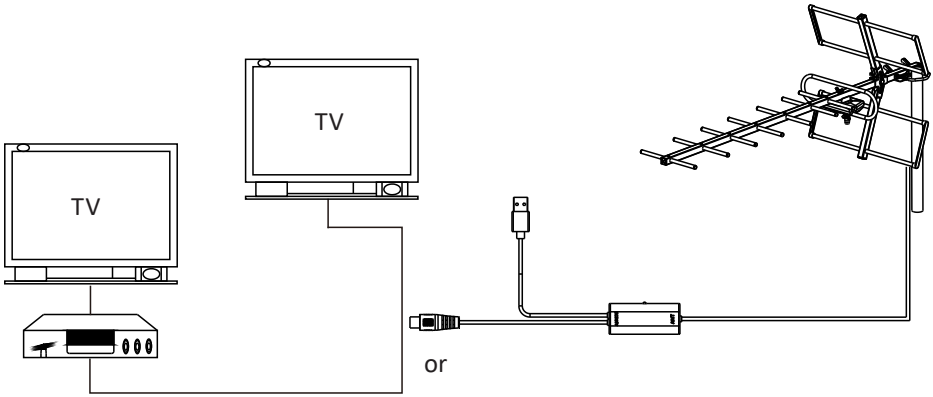


Step 3

Secure the antenna to a vertical support.



Connection



1. Connect the coaxial cable plug of the antenna to the TV or TV tuner.
2. To power the antenna, connect it via the USB cable to the corresponding port on the TV. If the TV is not equipped with a USB port, connect the cable to an outlet using a wall charger (not included).
3. Turn on the TV and/or TV tuner.
4. Check if the antenna is detected by the device. If it is not detected, try disconnecting the TV and/or TV tuner and repeating the previous step.
5. Adjust the antenna position to the optimal one by turning it in different directions.

Channel Setup

1. In the TV settings menu, select the antenna setup mode according to the TV user manual.
2. In the TV settings menu, select the channel search mode. Detailed instructions can be found in your TV user manual.
3. Perform a channel search; all available channels will be added automatically.

Note: If some channels are not detected during scanning, place the antenna in a different location or turn it in a different direction, and repeat the channel search.

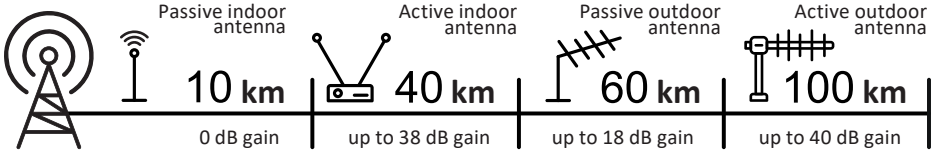
Influence of TV Tower Location on Antenna Performance

The distance from your home to the broadcast tower is one of the most important factors affecting signal reception quality. Different distances require different types of antennas:

- Short distance (up to 20 km). If the tower is close by, a passive indoor antenna will work well. The signal will be sufficiently strong and stable.
- Medium distance (20–50 km). At this distance, an active indoor antenna or a passive outdoor antenna with a signal amplifier may be required.
- Long distance (over 50 km). When located far from the tower, it is recommended to use an active, directional outdoor antenna with a signal amplifier. It is important to properly orient the antenna toward the broadcast tower for optimal reception.

In addition to distance, other factors also affect signal quality:

1. Terrain. Mountains, hills, and tall buildings can obstruct signal transmission.
2. Weather conditions. Rain, snow, and fog can weaken the signal.
3. Electromagnetic interference. Household appliances, reinforced concrete, Wi-Fi routers, and power lines can cause interference that degrades reception quality.



How to identify a TV tower:

1. Height and shape: Broadcast towers are typically very tall structures. The taller the tower, the greater its coverage radius. They can reach heights of several hundred meters and often have a lattice metal structure.
2. Antennas: Towers are equipped with numerous antennas of various shapes and sizes.
3. Location: Broadcast towers are typically installed on elevated ground or tall buildings to maximize signal coverage. In cities and large towns, they are often found in specially designated areas.
4. Fencing and restrictions: Broadcast towers are often surrounded by fencing and warning signs prohibiting unauthorized access, due to safety requirements.
5. Flashing lights: To prevent collisions with aircraft, broadcast towers are usually equipped with flashing lights that are visible at night.
6. Support equipment: Technical buildings and generators that keep the equipment running can often be seen near the towers.
7. Color: Towers are typically painted red and white.

Digital Channel Support

To determine whether your TV supports digital television (DVB-T, DVB-T2, or similar standards), follow these steps:

- Check your TV's specifications in the user manual or on the manufacturer's website. Your TV must support DVB-T, DVB-T2, ATSC, or other digital standards.
- Turn on the TV and open the settings menu. In the «Channels» or «Tuner» section, try running «Auto Channel Search». If the menu has the option to select digital television (sometimes designated as «DTV»), then your TV supports digital channels.
- Check your TV's labeling and stickers. Some TVs have stickers or markings indicating digital TV support. Look for labels such as «DVB-T2», «ATSC», etc.
- Consult the seller or a home appliance specialist. They will be able to confirm whether your TV supports digital television.
- Connect an external antenna and try searching for channels using the auto-search function. If your TV finds digital channels and displays them correctly, then digital TV support is available.

Note: If your TV does not support digital TV, you will need to connect a TV tuner box to the TV, and an antenna to the tuner box to amplify the signal. The antenna cable is plugged into the tuner, which converts the received signal into a format suitable for the TV. The decoded signal is then transmitted to the TV connected to the tuner, allowing you to watch digital TV.

Checking Antenna Directionality on TV*

- The antenna will receive a better signal when pointed toward the TV tower or repeater. To do this, monitor the signal strength and quality from the antenna: on the TV tuner remote, find the «Info» (INFO) button. Press the button several times.
- Two bars should appear on the TV screen: «Signal Level» and «Signal Quality».
- To achieve the maximum value of these parameters, turn the antenna every 5 seconds and observe if the numbers on the screen change.

* This function is not applicable to Smart TVs.

Rules and Conditions for Installation, Storage, Transportation, Sale (Distribution), and Disposal

- The installation and mounting conditions for the device are described in the «Installation» section of this user manual.
- The device must be stored in its original packaging, on heated premises, both at the manufacturer's and at the consumer's sites. The ambient temperature should be between +5 °C and +40 °C, and the relative humidity should not exceed 80% (non-condensing). The storage area must be free from aggressive contaminants (e.g., acid or alkali vapors) that could cause corrosion.
- The device must be transported in a dry place.
- The device requires careful handling. Protect it from exposure to dust, dirt, impact, moisture, fire, and other hazards.
- Sale or distribution of the device must be carried out in accordance with local legislation.
- Upon expiration of the device's service life, it must not be disposed of with unsorted household waste. Instead, it must be taken to an authorized collection point for electrical and electronic equipment for subsequent recycling and disposal in accordance with federal or local legislation. By ensuring proper disposal of this product, you help conserve natural resources and prevent potential harm to the environment and human health that may result from improper handling. For more detailed information about collection and disposal points for this product, please contact your local municipal authorities or your household waste disposal service.
- If a device malfunction is detected, immediately contact an authorized service center or dispose of the device.

Warranty Information

The manufacturer guarantees the device will function properly throughout the warranty period and be free from defects in materials and assembly. The warranty period commences on the date of purchase and applies to new products only. Warranty service includes free repair or replacement of defective parts that fail during the warranty period, provided the failure is not caused by consumer misuse and the product is operated in accordance with the user manual. Repairs or part replacements shall be performed at authorized service centers.

Warranty Period: 6 months
Service Life: 6 months

For the up-to-date list of authorized service centers, please visit:
https://www.dns-shop.ru/service-center/

Additional Information

Manufacturer: ZhongShan Wanlitong Antenna Equipment Co.,Ltd.
Anle Industrial Area, Guangzhu Road, Dongfeng, Zhongshan, Guangdong, China.

Made in China.

Product specifications, information and appearance are subject to change without prior notice, for quality improvement of our products.



Production date (mm.yyyy): _____v.1

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