

aceline

User Manual

TV Antenna
AN-3001

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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.

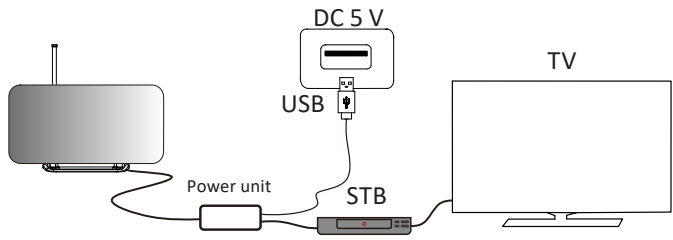
Intended Use

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

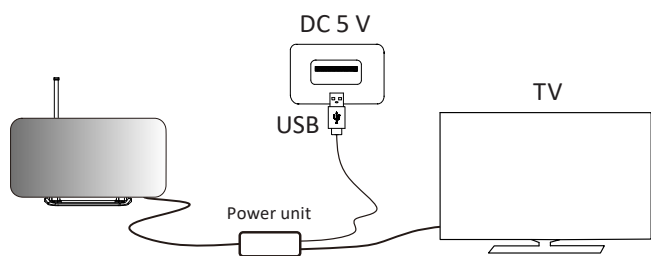
Safety Precautions

- Before connecting the antenna to your TV or other device, disconnect these devices from the power source.
- To avoid a short circuit, do not expose the device to any liquids, and do not place open containers of liquid near it.
- Do not pull or move the device by the cord. Do not bend or wrap the cord around the device. Also ensure the power cord does not bend over the edge of the countertop or come into contact with hot surfaces or sharp edges.
- Do not place any foreign objects on the device housing.
- Protect the device from open flames.
- After being kept in a cold environment for an extended period, allow the device to stand at room temperature for one hour before turning it on.
- Unplug the device from the power source when not in use, before cleaning, if a malfunction occurs, and during thunderstorms.
- Do not use the device if visible damage is detected. Unplug it immediately and contact an authorized service center.
- Never use abrasive materials or organic solvents (alcohol, gasoline, etc.) to clean the device. A small amount of neutral detergent may be used. Always disconnect the antenna from the power source and other devices before cleaning.
- Do not disassemble the device yourself to avoid electric shock. This device contains no user-serviceable parts. Maintenance and repairs should only be performed by qualified technicians at an authorized service center.
- This device is intended for use in household and similar environments, such as: staff kitchen areas in shops, offices, and other working environments; in farmhouses, hotels, motels, and other residential environments; in bed and breakfast type establishments; in catering services.
- This device is not intended for commercial use.

Installation and Connection



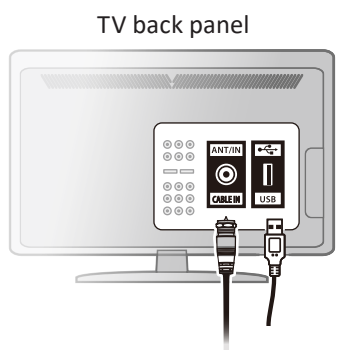
Connecting to a set-top box (STB)



Connecting directly to the TV

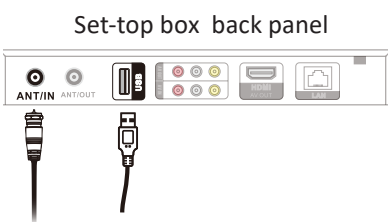
- Connect the power unit’s cable to the ANT/IN or CABLE IN connector on the back panel of the TV/set-top box.

Connecting to a TV



From the antenna

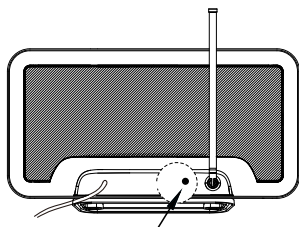
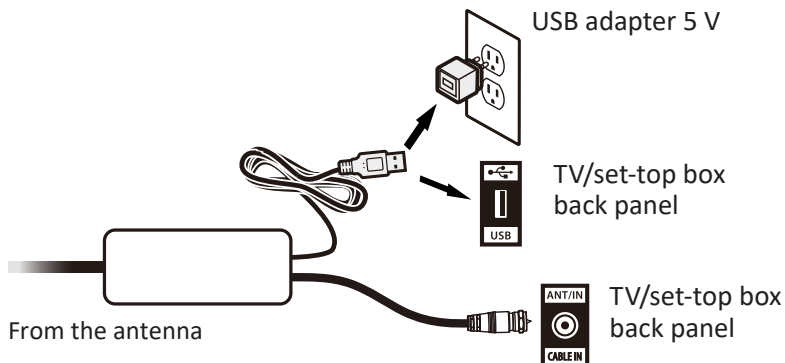
Connecting to an STB



From the antenna

Selecting a Power Source

- Connect the USB power cable to the USB connector on the back panel of the TV/ set-top box or to a wall outlet using a power adapter (not included).

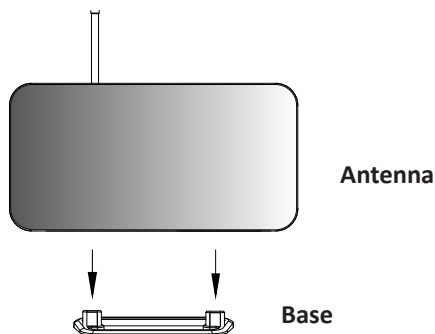


When the device is connected to power, the indicator on the back of the antenna will light up.

Antenna Installation

Assembly

Insert the antenna into the base. Place it flat on a solid, stable surface.



Specifications

- Model: AN-3001.
- Trademark: Aceline.
- Frequency range:
 - UHF/DMB: 470–862 MHz.
 - VHF/MB: 174–230 MHz.
- Gain: 28 dB.
- Placement type: Indoor.
- Impedance: 75 Ω .
- Power supply: USB 5 V.
- Cable length: 3 m.
- Scope of application: Domestic.

Package Contents

- Antenna.
- Antenna stand.
- Connector.
- User manual.

Impact of TV Tower Location on Antenna Performance

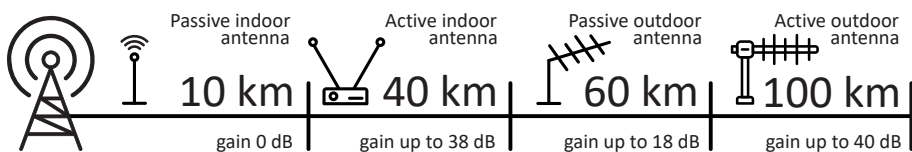
The distance from your home to the TV tower is one of the most important factors affecting signal reception quality. Different distances require different types of antennas:

- Short distance (up to 20 km). If the tower is nearby, even a passive indoor antenna will work well. The signal will be 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 outdoor directional antenna with an amplifier. It is important to orient the antenna correctly toward the TV tower for optimal reception.

In addition to distance, other factors affect signal quality:

1. Terrain. Mountains, hills, and tall buildings can obstruct the signal.
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 create interference that degrades reception quality.

Antenna Range Diagram



How to identify a TV tower:

1. Height and shape. TV towers are usually very tall structures. The higher the tower, the greater the coverage radius. They can reach several hundred meters in height and often have a lattice metal structure.
2. Antennas. Numerous antennas of various shapes and sizes are mounted on the towers.
3. Location. TV towers are typically built on elevated terrain or high buildings to ensure maximum signal coverage. In cities and large settlements, they are often found in designated areas.
4. Fencing and restrictions. TV towers are often surrounded by fences and warning signs prohibiting unauthorized access. This is due to safety requirements.
5. Flashing lights. To prevent collisions with aircraft, TV towers are usually equipped with flashing lights visible at night.
6. Noise-generating equipment. Near the towers, you may notice technical buildings and generators that keep the equipment operational.
7. Color. Towers are typically painted in 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 specifications in the user manual or on the manufacturer's website. Your TV should support DVB-T, DVB-T2, ATSC, or other digital standards.

- Turn on the TV and go to the settings menu. In the “Channels” or “Tuner” section, try performing an “Auto-scan.” If the menu offers a digital TV option (sometimes labeled as “DTV”), your TV supports digital channels.
- Look for markings and stickers on your TV. Some TVs have stickers indicating digital TV support. Look for labels such as “DVB-T2,” “ATSC,” etc.
- Contact a sales representative or a home appliance specialist. They can tell you for sure whether your TV supports digital television.
- Connect an external antenna and try scanning for channels using the auto-scan function. If your TV finds and displays digital channels properly, it supports digital television.

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

Checking Antenna Direction on TV*

- The antenna will receive the signal better if it is pointed toward the TV tower/re-lay station. To do this, monitor the signal strength and quality from the antenna: on the TV tuner remote, press the “INFO” button. Press the button several times.
- Two bars should appear on the TV screen: “Signal Level” and “Signal Quality.”
- To achieve maximum values for these parameters, rotate the antenna every 5 seconds and check whether the numbers on the screen change.

Troubleshooting Guide

Issue	Solution
The antenna is not working	Make sure the antenna is properly connected to the TV or digital set-top box. Move the antenna to another location
A channel is missing	Rotate the antenna 10–20° in any direction. Move the antenna to another location
Image freezes or breaks up / no image / audio drops out or is missing	Weak signal. Try moving or reorienting the antenna to improve reception quality
Not all digital signals are in high definition (HD)	Make sure you are using a high-definition television (HDTV) with a built-in ATSC tuner. If connecting the antenna to an external receiver, ensure it is capable of receiving HD images. Otherwise, high-definition channels will not be received

* Does not work on 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: 12 months

Service Life: 60 months

For the up-to-date list of authorized service centers, please visit:

<https://www.dns-shop.ru/service-center/>

Additional Information

Manufacturer: Shenzhen Tuko Technology Co., Ltd.
2 floor, Plant 2, YouCheng industrial area, Anlan Avenue No. 9-201, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China.

Made in China.

The product meets the requirements of the technical regulations of the TR CU (EAEU).

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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