aceline

# User Manual

---

TV Antenna 210J

# Dear Customer,

Thank you for choosing our products.
We are pleased to offer you products and devices designed and manufactured to the highest standards of quality, functionality, and design. Before using the product, 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

- Operate the device at temperatures from −40 °C to +60 °C and a relative humidity of no more than 60%.
- Do not allow sources of open flames, such as lit candles, to come into contact with the antenna.
- Do not touch the device or its cable during a thunderstorm.
- The 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.
- The device is not intended for commercial use.
- Connect all connectors according to the diagram provided in this manual.
- Always observe the correct polarity (+/−).

**CAUTION!**

- The manufacturer cannot guarantee reliable TV reception in areas with insufficient TV signal coverage or if the antenna is installed and/or configured incorrectly. Failure to receive a signal under these conditions does not indicate a defect in the antenna.
- Digital TV signal reception is only possible where DVB-T2 digital broadcasts are available. Before using the antenna, make sure digital terrestrial broadcasting is available in your region. Before connecting the antenna to a TV or tuner, make sure these devices are turned off.
- Poor DVB-T2 digital TV reception caused by insufficient signal strength, interference, or operation at the edge of or outside the reliable reception area, including reception problems caused by the terrain and surrounding buildings, is not considered a defect in the device.

# Specifications

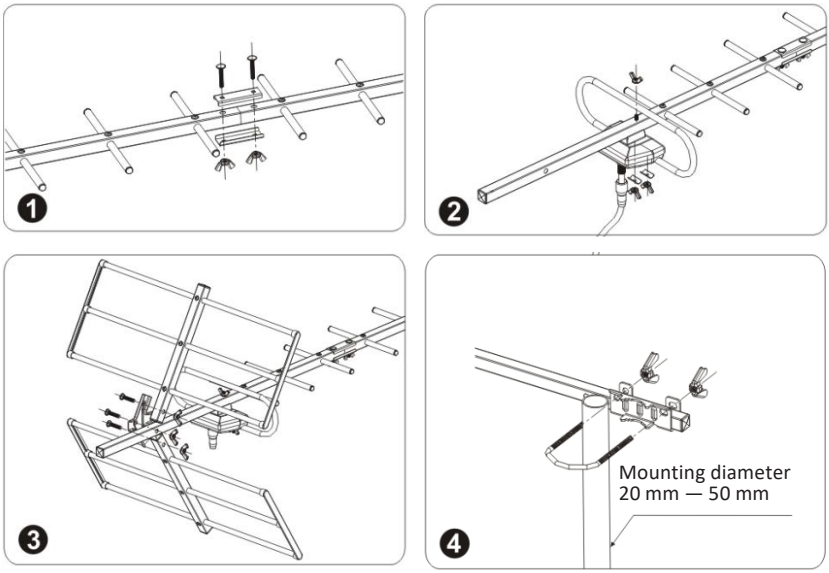
- Model: 210J.
- Trademark: Aceline.
- Frequency range: VHF 170–230 MHz, UHF 470–860 MHz.
- Maximum gain: 13 dB.
- Impedance: 75 Ω.
- Installation location: Outdoor.
- Type: Passive.
- Housing material: Aluminum.
- Assembled length: 1.1 m.
- Scope of application: Domestic.

# Package Contents

- TV antenna.
- User manual.

# Installation

1. Install the antenna as high as possible.
2. Point the antenna directly toward the TV broadcasting tower.
3. If necessary, use a signal amplifier to improve reception quality.



## How the Location of a TV Broadcasting Tower Affects Antenna Performance

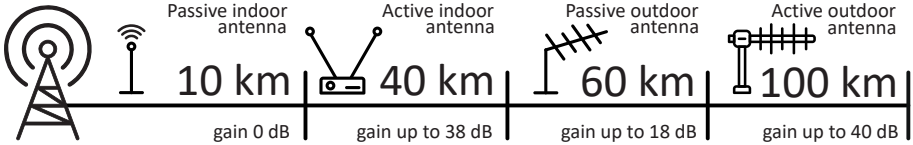
The distance between your home and the TV broadcasting tower is one of the most important factors affecting signal reception quality. Different distances may require different types of antennas:

- Short distance (up to 20 km). If the broadcasting tower is nearby, even a passive indoor antenna may be sufficient. The signal will generally be strong and stable.
- Medium distance (20–50 km). At this distance, you may need an active indoor antenna or a passive outdoor antenna with a signal amplifier.
- Long distance (over 50 km). If the broadcasting tower is far away, an active directional outdoor antenna with an amplifier is recommended. Properly pointing the antenna toward the broadcasting tower is essential for optimal reception.

In addition to distance, other factors can 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 electrical appliances, reinforced concrete, Wi-Fi routers, and power lines may cause interference and reduce reception quality.

Antenna Range Diagram




### How to Identify a TV Broadcasting Tower

1. Height and shape. TV broadcasting towers are usually very tall structures. The taller the tower, the greater its potential coverage area. Some towers reach several hundred meters in height and often feature a metal lattice structure.
2. Antennas. Broadcasting towers are equipped with numerous antennas of different shapes and sizes.
3. Location. TV broadcasting towers are usually installed on elevated ground or tall buildings to provide the widest possible signal coverage. In cities and large towns, they are often located in specially designated areas.
4. Fences and warning signs. TV broadcasting towers are often surrounded by fences and warning signs prohibiting unauthorized access. These measures are required for safety reasons.
5. Flashing lights. Broadcasting towers are usually equipped with flashing warning lights to prevent collisions with aircraft. These lights are visible at night.
6. Technical facilities. Technical buildings and generators used to support broadcasting equipment may be located near the towers.
7. Color. Broadcasting towers are often 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 its user manual or on the manufacturer's website. Your TV must support DVB-T, DVB-T2, ATSC, or another digital television standard.
- Turn on the TV and open the settings menu. In the Channels or Tuner section, try running Auto Channel Scan. If the menu allows you to select digital television (sometimes labeled DTV), your TV supports digital channels.
- Check the labels and markings on your TV. Some TVs have labels indicating digital television support. Look for markings such as DVB-T2, ATSC, and others.
- Contact the retailer or a home electronics specialist. They can help you determine whether your TV supports digital television.
- Connect an external antenna and try scanning for channels using the automatic channel search function. If your TV finds digital channels and displays them correctly, it supports digital television.

**Note:** If your TV does not support digital television, you will need to connect an external digital TV tuner to the TV and connect the antenna to the tuner to receive the signal. The antenna cable connects to the tuner, which converts the received signal into a format compatible with your TV. The decoded signal is then transmitted to the TV connected to the tuner, allowing you to watch digital television.

## Checking Antenna Alignment Using the TV*

The antenna will receive a stronger signal when pointed toward the TV broadcasting tower or repeater. To find the best antenna position, monitor the signal strength and quality.

1. Find the INFO button on the TV tuner's remote control and press it several times.
2. Two indicators should appear on the TV screen: Signal Strength and Signal Quality.
3. To maximize these values, adjust the antenna's direction every 5 seconds and check whether the readings on the screen change.

# Troubleshooting Guide

| Issue | Possible Solution |
|---|---|
| No signal | Make sure DVB-T2 digital television broadcasting is available in your region and that you are within an area of reliable signal reception |
| The picture freezes or breaks up / No picture / Sound drops out or is unavailable | The signal strength is weak. Try moving or repositioning the antenna to improve the strength and quality of the received signal |

* This function 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 under dry conditions.
- 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:** 24 months

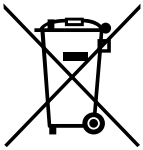
**For the up-to-date list of authorized service centers, please visit:**
https://www.dns-shop.ru/service-center/

# Additional Information

**Manufacturer:** Zhenjiang Wuying Electron Co., Ltd.
Xinglong Village, Yaoqiao, Zhenjiang New District, Zhenjiang City, Jiangsu Province, 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

aceline