

# **KUMA** **COSMOS**

**Digital TV Antenna**



- **Waterproof**
- **Durable**
- **Anti-UV**

**Quick Start Guide**

**KUMA**

# COSMOS

## Digital TV Antenna



### Product Features

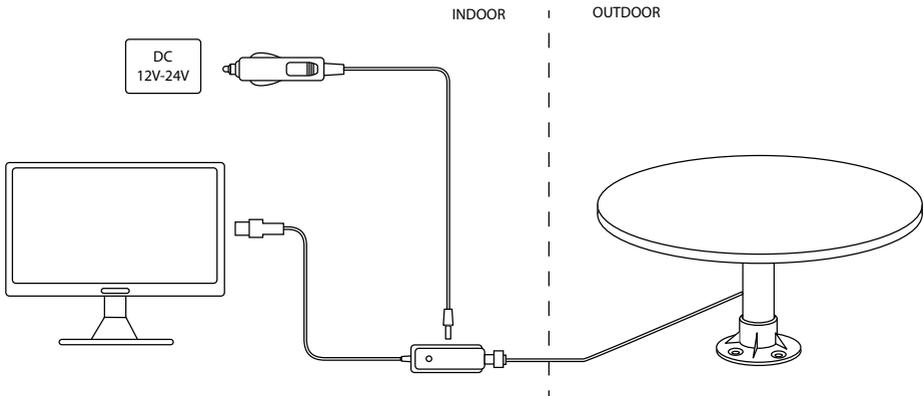
1. The aerial can receive both digital and analogue terrestrial TV signals.
2. The omni-directional (360 degree) design eliminates the need to locate the direction of your local TV and radio transmitter.
3. High gain with built-in signal amplifier and high receiver sensitivity.
4. Can be permanently fixed on your caravan, motorhome, truck or boat.

### Electrical Specification

1. Frequency Band: VHF, UHF.
2. Frequency: VHF: 174-233MHz, UHF: 47-870MHz.
3. Gain:  $20 \pm 2$  dBi.
4. Working Voltage: 10-14V.
5. Impedance: 75ohm.
6. Radiation Pattern: Omni-directional.
7. Coax Cable: 3C-2V, L=4 m.
8. Connector: PAL-Male.



# Quick Start Guide



## Permanent Roof Installation

1. Make four 5mm diameter holes in the vehicle roof.
2. Choose suitable fixings (not included) to fix the antenna on the vehicle roof. Bond all surfaces with Sikaflex sealant.
3. Route all cables securely and plug the RF connector into the TV and the cigar plug into a cigar plug socket. The cigar plug **MUST** be used as it contains the protection for the electronics in the device. Under no circumstances should the cigar plug be cut off and the unit hard-wired.
4. After installation, check the roof for leaks.

## Magnetic Roof Installation

1. Use magnetic base to fix antenna to metal surface.
2. Route all cables securely and plug the RF connector into the TV and the cigar plug into a cigar plug socket. The cigar plug **MUST** be used as it contains the protection for the electronics in the device. Under no circumstances should the cigar plug be cut off and the unit hard-wired.

### Note

1. Do not connect the power until installation is complete and sealant has been applied (if permanent fixing is used).
2. For better reception, the antenna should be kept away from other power sources, coax cables etc.
3. Install as high as possible. If there is interference between the antenna and transmission tower it will cause signal attenuation/loss in quality of reception.
4. Please fix the cable carefully to avoid snagging or catching.

## **Troubleshooting**

No picture or poor picture:

1. Check all connections from the antenna to the TV and make sure all the connections are correct.
2. Check power supply equipment is correctly functioning.  
Booster light is on.
3. Make sure all the coax cabling is in good condition.

**KUMA**

**KUMA Limited**

**[www.kuma.co.uk](http://www.kuma.co.uk)**

**+44 (0)1594 888 188**

**[sales@kuma.co.uk](mailto:sales@kuma.co.uk)**