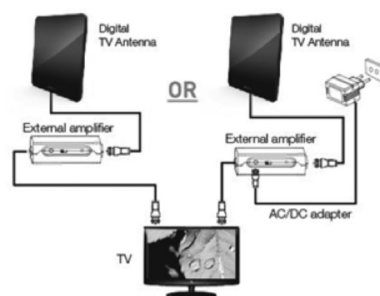


For TVs with built-in tuner (Digital Signals)

**(A) Powered via built-in tuner**

- (A) Plug the antenna coaxial cable to the external amplifier and plug the amplifiers coaxial cable to the RF jack of your TV.
- (B) Plug the antennas coaxial cable to the ANT jack of the external amplifier and plug the amplifiers coaxial cable to the RF jack of your TV. Plug the power adaptors DC plug to the DC jack of the external amplifier and the power plug to the electrical outlet.

**(B) Powered via AC/DC adaptor**

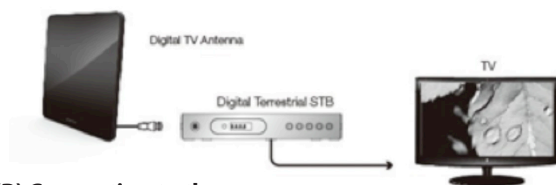


**Option 2:**

For Strong signal areas (without amplifier)

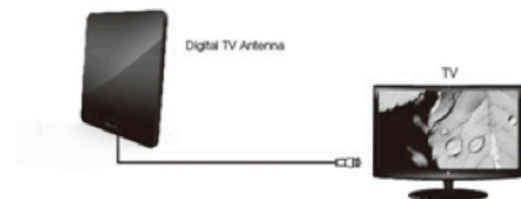
**Configuration (A) Connection to the digital receiver:**

Plug the antenna coaxial cable to the ANT jack of your digital receiver



**Configuration (B) Connection to the TV with built in digital tuner:**

Plug the antennas coaxial cable to the RF jack of your TV



**Additional notes and tips**

- If you are having major reception issues you might want to try placing the antenna in a different position. (For example near a window)
- You can use the antenna with or without its amplifier, depending on which connection gives you the best signal. Using the amplifier provides the best performance in most situations, so try using it first. If you notice that you have lost channels that you normally receive, try connecting without the amplifier



**Digital Indoor Aerial - Flat Panel 4G**  
**IAFLAT-RO**

**User Manual**

Please read this manual thoroughly before using your Ross Indoor Aerial and then retain for future reference


**1.1 Important Safety Instructions:**

- Please read these instructions carefully and retain for future reference. If you sell, or give this aerial away be sure to pass on the instructions.
- There are no user serviceable parts inside this unit. DO NOT open there are dangerous voltages inside. Electric shock hazard.
- This unit operates on AC 230V ~50Hz DC12V/50mA supply.
- During use, this device may become warm, this is normal. DO NOT allow anything to block the ventilation slots as this may cause overheating and a consequent risk of fire.
- To be completely disconnected from the power input the power adaptor must be disconnected from the mains.
- The marking plate is located on the bottom enclosure of the apparatus.
- **DO NOT** use the aerial during a thunderous day and turn off the power
- **DO NOT** place naked flames (such as candles) on this equipment.
- **DO NOT** stand other equipment on this unit.
- **DO NOT** obstruct the power adaptor and it should remain easily accessible during use.
- **DO NOT** operate close to heaters or other heat sources.
- **DO NOT** stand on soft furnishings
- **DO NOT** allow anything to trap, pinch or otherwise damage the power cord, if the power cord should become damaged IMMEDIATELY switch the aerial off at the wall and unplug it, you should then contact your service centre to carry out a repair.
- **DO NOT** overload the wall socket, this can be dangerous and lead to a fire hazard.
- **MAKE SURE** you have easy access to the mains plug in case of emergency.
- **DO NOT** unplug the unit by pulling the power cord, always grasp the plug firmly and pull from the wall socket.
- **DO NOT** touch the mains plug or power cord with wet hands. Electric shock hazard.
- **DO NOT** stand items such as water filled cases on the aerial.
- **DO NOT** operate this unit in damp conditions or allow water or other fluids to enter the enclosure. If this happens, switch off IMMEDIATELY and refer the device to the Ross helpline.
- **DO NOT** connect or disconnect cables from the aerial when it is turned on. Switch off the power unit first.
- **DO NOT** clean this device using solvent based products. Use only a soft dry cloth.



**Technical Support UK: 0845 194 7584 • Email: [help@ross.co.uk](mailto:help@ross.co.uk)**

## 1.2 General Information

- Thank you for choosing the Ross Digital Indoor Aerial – Flat panel 4G. Treated with care and used in accordance with the contents of this manual it will provide many years of reliable service
-  This symbol indicates that, at the end of its useful life, this product must not be disposed of with normal domestic waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please recycle it responsibly.
-  This product conforms to all applicable EU legislation for this type of product. Further information can be obtained from Ross if required.
- Please note in order to receive digital TV signals you will require a digital box of some description

## 2.0 In the Box:

Please open your box carefully and check the contents which should be as the list below: If anything is missing please contact the Ross helpline or return the product to the point of purchase.

- Digital Indoor Flat Aerial
- DC Power adaptor
- AC Adaptor
- User manual

## 3.0 Product Specifications

Please find the detailed specifications for Ross Digital Indoor Aerial – Flat panel 4G below:

- Reception Channels: 5-12, 21-69
- Frequency: VHF: 174-230MHz UHF: 470-790MHz
- Max Noise Figure: 1.4/1.7dB (VHF/UHF)
- VSWR (Voltage Standing Wave Ratio) <2.5
- Max Output Level: 84dBμV
- 3dB Beam Width:  $\pm 22^\circ / \pm 20^\circ$  (VHF/UHF)
- Input Voltage: AC 230V ~ 240V
- Working Voltage: DC6V/50mA
- Impedance ( $\Omega$ ): 75
- Connector: IEC-Connector

## 4.0 Product Features

Please find details of the Ross Digital Indoor Aerial – Flat panel 4G features below:

- Built-in LTE/4G filters to avoid interference from 4G mobile phone signals
- Receives full HD television, digital signals and DAB radio programs: for reception of local and regional UHF and VHF signals as well as FM radio signals
- Signal clear technology with extremely low noise circuitry
- Wide band amplifier for best picture and sound quality
- Includes external amplifier to enhance performance in poor reception areas
- Can be as active or passive version, depending on signal strength received
- Can be powered by digital receiver (5V/30mA) via aerial (coax) cable
- Can be powered by AC/DC power adaptor (Included)
- Power-on indicator light with on/off switch for energy saving
- Auto gain control
- Attractive “piano” Black finish
- Ultra slim design

## 5.0 Installation

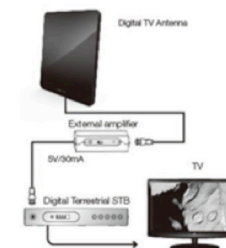
There are various installation configurations which can be used on the Ross Digital Indoor Aerial - Flat Panel these are determined by the digital signal strength received in your area <http://www.digitaluk.co.uk/coveragechecker/>

### Option 1:

For weak signal areas including the amplifier

#### Configuration (A) Powered via Digital receiver:

Plug the antennas coaxial cable to the ANT jack of the external amplifier and plug the amplifiers coaxial cable into the ANT jack of your digital receiver, this will get 5V/30mA power from the digital receiver.



#### Configuration (B) Powered via AC/DC adaptor:

With digital receiver to receive signals  
Plug the antennas coaxial cable to the ANT jack of the external amplifier and plug the amplifiers coaxial cable to the ANT jack of your digital receiver. Plug the power adaptors DC plug into the DC jack of the external amplifier and the power plug to the electrical outlet.

