



Model

ZM21-AM/FM

Marine AM/FM receive

collinear

2.1 metres tall

AM/FM Radio

Receive

530-1600 KHZ & 87.5-108 MHZ

- Mounts to MM1 or MM2 using 1"-14 UNS thread
- 4.5 metres of white RG58 stranded cable.
- FME female fitted to cable. FME male to AM/FM adaptor supplied

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

Tuned to receive AM and FM radio broadcasts while at sea, this marine AM/FM receive collinear is a single piece construction and will match the height and appearance of the other ZM21 models in the ZCG marine range.

All components used are of the highest quality to ensure long term survival in the harsh marine environment. The antenna will deliver reliable performance for many years.

4.5 metres of RG58 cable side exits from the aluminium mount ferrule, terminated with a FME female for ease of routing your cable. A FME male to AM/FM radio male adaptor is supplied for a plug-n-play installation P/N 7977-5.

A detailed specification sheet is available to download from www.zcg.com.au

TUNING

The antenna has been tuned in the factory to cover the AM radio band 530-1600 KHz and the FM radio band 87.5-108 MHz.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

No metal ground plane is necessary for the antenna to operate effectively. To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point:

1. **Mount the antenna in as high a place as possible.**
2. **Mount the antenna as far away from other antennas and metallic objects as possible to avoid interference and distortion of the 360° omnidirectional pattern. At least 350 mm side clearance is desirable, preferably more.**
3. **For optimum performance the antenna must be in a vertical position, not at an angle.**

FOLD DOWN SWIVEL BASE (not included)

You can choose between the MM1 plastic fold down mount or MM2 316 grade stainless steel fold down base. Both of these bases include a 1"-14 UNS thread on the top which mates with the thread in the chrome mount ferrule of your antenna.

Alternatively black versions of both the MM1 and MM2 are available.

Both of these fold down mounts are adjustable in two directions and also swivels in the opposite plane by loosening the stainless steel pivot bolt. This versatility allows the antenna to be mounted in a variety of positions on any flat surface and at any angle using four screws or bolts.

Use the base as a template to mark the position of the 4 holes required to secure the deck mount base.

ZCG recommend using high quality stainless steel fastening screws or bolts, depending on your mounting surface.

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ROUTING THE CABLE

IMPORTANT : *Leave some slack in the cable at the point where the cable exits the chromed brass ferrule. This will allow the antenna to be folded down flat without placing tension on the cable.*

Route the FME terminated RG58 cable carefully to your radio. Ensure that the cable is not stretched excessively and there are no sharp kinks. Avoid high heat locations such as the engine room that can cause detrimental heat damage to the cable. We also recommend routing your cable away from possible causes of electrical interference, such as electric fans or fuse boxes.

If using cable ties, then we highly recommend the 316 stainless steel type for the harsh marine environment. A stainless steel cable tie tension tool is recommended to supply adequate retaining tension to the cable tie, see P/N 8215

Do not pull the cable ties so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

Screw the supplied FME male to AM/FM radio male adaptor onto the FME female termination and insert into the socket on your radio.

Once your cable and terminations are installed, ZCG recommend water/dust proofing your terminations using amalgamation butyl rubber tape and a top layer of PVC tape.

Installation is now complete.



FME female fitted onto coaxial cable



FME male to AM/FM Radio male adaptor - supplied

MAINTENANCE

This antenna has been designed for high reliability and low maintenance. We recommend that you conduct a routine annual mechanical inspection of the antenna, feeder cable, connections and waterproofing.

Specifications are subject to change without prior notice

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