Installation Instruction - SW3-702

Part Number: CM-[VHF]-[UHF]-NJ Series

A. Introduction

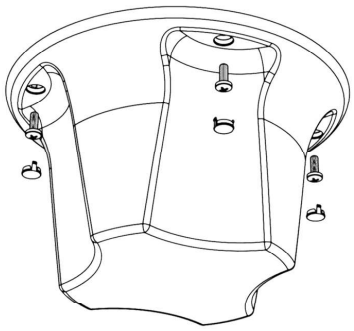
The CM-VHF-UHF range of ceiling mount antennas provide dual band VHF/UHF function, combined into a single feed. The antenna is intended for short range infill and inbuilding coverage applications where gain performance is not critical. The antenna is supplied pre-tuned to the required VHF and UHF frequencies.

B. Select A Suitable Mounting Location

The antenna has an omnidirectional pattern and should ideally be installed in the centre of the required coverage area. Note that access may be required above the mounting panel to secure the antenna and connect the coaxial cable.
The antenna location should be horizontal and clear of other ceiling mounted equipment (e.g. air conditioners) – consider protrusion depth of antenna and potential height clearance issues in low ceiling areas, especially if fitted in an operational area where mechanical handling equipment is used.

C. Mount the Antenna

Where the antenna will be fitted on a lift out ceiling panel, it may be preferable to remove the panel and mount the antenna on the panel whilst working at ground level.
Mark the position for the centre fixing and make a clearance hole for the N female connector. If the panel is <10mm thick (0.4") thick, a 22mm (0.62") clearance hole is required – thicker panels will require a larger clearance hole to allow the N plug to fully engage.
Mark the position of the mounting holes (the antenna can be used as a template) & drill.
If mounting to an appropriate material self tapping screws can be used. Screws should be M6 or 1/4 inch pan head screws of an appropriate length for the installation.



D. Route & Terminate the Coaxial Cable

The coaxial cable type used will depend on the length required to reach the radio terminal equipment.
The cable should be routed away from any existing electrical cable and secured to avoid being damaged.
An N type plug should be fitted to the antenna end of the cable.
A suitable connector should be fitted to the equipment end of the cable.

E. Commission & Test

A VSWR test should be carried out – a network analyser or antenna analyser is recommended for this check.
The VSWR measured should fall within value stated in the product data sheet.
Connect coaxial cable to antenna and carry out "on air" check or coverage test as applicable.

F. Important Safety Notices

RF Safety Note
For deployments using high power - the proximity of professionals and members of the public during use should be taken into account when determining output power, Expert advice may be required to comply with local RF Exposure Regulations.

Important Safety Note
Always ensure that the antenna is safely and securely mounted. Care must be taken to ensure that it cannot fall and cause injury.

European Waste Electronic Equipment Directive 2002/96/EC
Please ensure that your old Waste Electricals and Electronics are recycled in accordanc with the regulations. Please do not throw them away with your domestic rubbish as they will not be recycled.

RoHS 2: EU RoHS compliance is declared per **Directive 2011/65/EU** and its subsequent amendments. Homogeneous materials composing parts that are compliant with this legislation have less than 0.1% by weight each of lead, mercury, hexavalent chromium, PBB, and PBDE, and 0.01% by weight of cadmium. In situations where an exemption applies, the preceding limits, corresponding to the exempted substance(s), may be higher.

PANORAMA ANTENNAS

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