

# Installation Instruction – SW3-627 W24-58-CP-9

SW3-627 - Document Version 1.0

## A. Introduction

The Panorama client patch antenna is a directional wall or mast mounted antenna covering 2.4 & 5GHz for WIFI / WLAN applications.

This antenna can be used for point to point or wide area coverage applications as it has wide beam width in both azimuth and elevation planes. Two or more of these antennas can be used to provide MiMo function or for sectorized operation.

The antenna is supplied with a 90 degree adjustable wall / mast mount angle bracket to give optimal mounting flexibility.



### Important Safety Note

This antenna is an electrical conductor and should not be mounted in a location where it or the installer may contact over-head powerlines. For locations vulnerable to lightning fitment of an inline surge arrester should be considered.

## B. Mounting requirements and selecting location

Ensure that the selected mounting location can be safely accessed with the equipment that you have available and mount the antenna so that it has at least 300mm (12") of clearance from all obstructions if possible.

The antenna can be mounted so as to achieve horizontal or vertical polarisation by following the orientation arrows on the reverse of the antenna. For vertical polarisation when mounted externally the antenna should always be mounted with the connector facing downwards.

The antenna can be mast mounted using a jubilee clip (not supplied)

The supplied mounting bracket allows for 90 degrees of orientation adjustment (45 degrees each way from centre) assuming that the antenna is mounted to a flat wall.

For MiMo operation multiple antennas can be co-located. The optimal relative positioning is by vertical separation a minimum distance of 150mm (6").

## C. Prepare and drill holes

The antenna can be mounted via the supplied mounting bracket which features 4x 4.2mm (0.16") holes to suit 4mm / (No.8) screws. The appropriate screw will depend upon the mounting surface. Before drilling ensure that it is safe to drill into the mounting surface.

The supplied bracket can be disassembled and used as a template for drilling the holes.

## D. Fitting the antenna

Fully tighten the mounting hardware, ensuring the antenna direction is correct. The SMA connector joint should be waterproofed with a weatherproof electrical tape (self amalgamating type is recommended) allowing a significant overlap of each turn and ensuring that the overlap is in the opposite direction to predicted water fall.

## E. Routing and terminating coaxial cable(s)

Route extension cable to equipment, taking care to avoid causing a hazard. Where the cable is routed into an enclosure or building a 'drip loop' should be considered ahead of the entry point.

## F. Commission and test

### Check comms cable(s):

- Carry out VSWR check, should measure <2.0:1.

## G. Notices



### European Waste Electronic Equipment Directive 2002/96/EC

Please ensure that your old Waste Electricals and Electronics are recycled do not throw them away into standard waste.



### RF Safety Note

This antenna should be mounted in such a way that no person is within 30cm (12") of the antenna during use.



**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.

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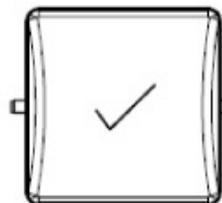
Permitted Mounting Orientations



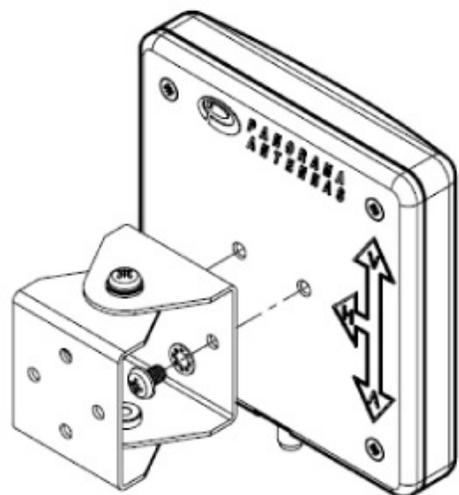
Vertical  
Polarisation



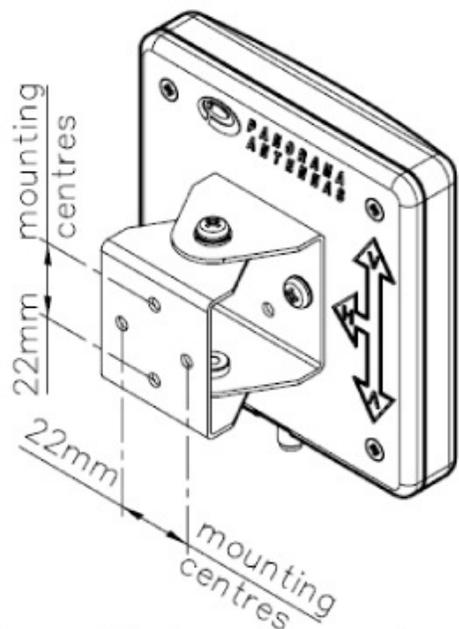
Vertical  
Polarisation



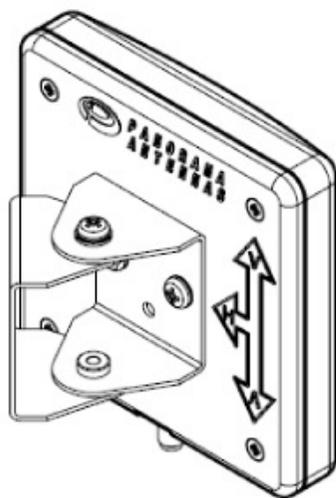
Horizontal  
Polarisation



Mount bracket assembly to back of antenna as shown using screws and washers supplied.



Assembled antenna showing mounting hole positions.



Secure to wall using 2 appropriate screws (not supplied).

Alternative method of fixing to tube using a jubilee clip (not supplied).

