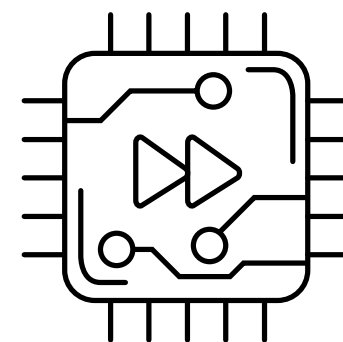


Mounting Instructions LANCOM AirLancer ON-T90ag

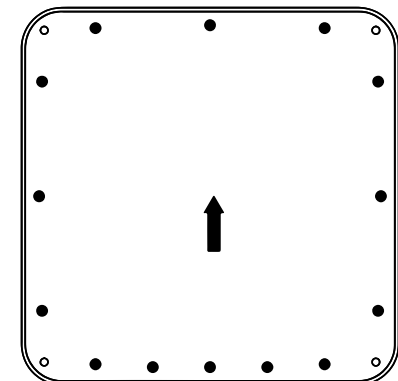


Preparation for wall mounting

Use the antenna as a drilling template to mark out the drill holes for the wall mounting. The horizontal and vertical separation of the adjacent holes is 173.7 mm.

Size of the drill holes

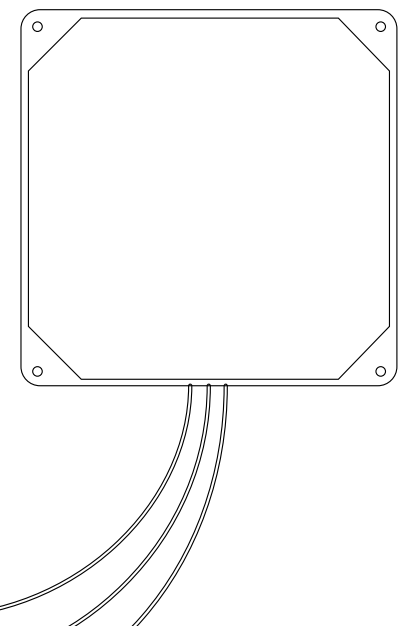
Using the markings as a guide, drill the holes and insert dowels if appropriate. Depending on the surface material the required size of the holes may vary.



Mounting the antenna

Line-up the antenna with the holes and make sure that the connectors are pointing downwards. Then attach the antenna with the supplied screws.

Mounting the antenna with a free orientation can be achieved with the AirLancer Mount (ON) which is available optionally.

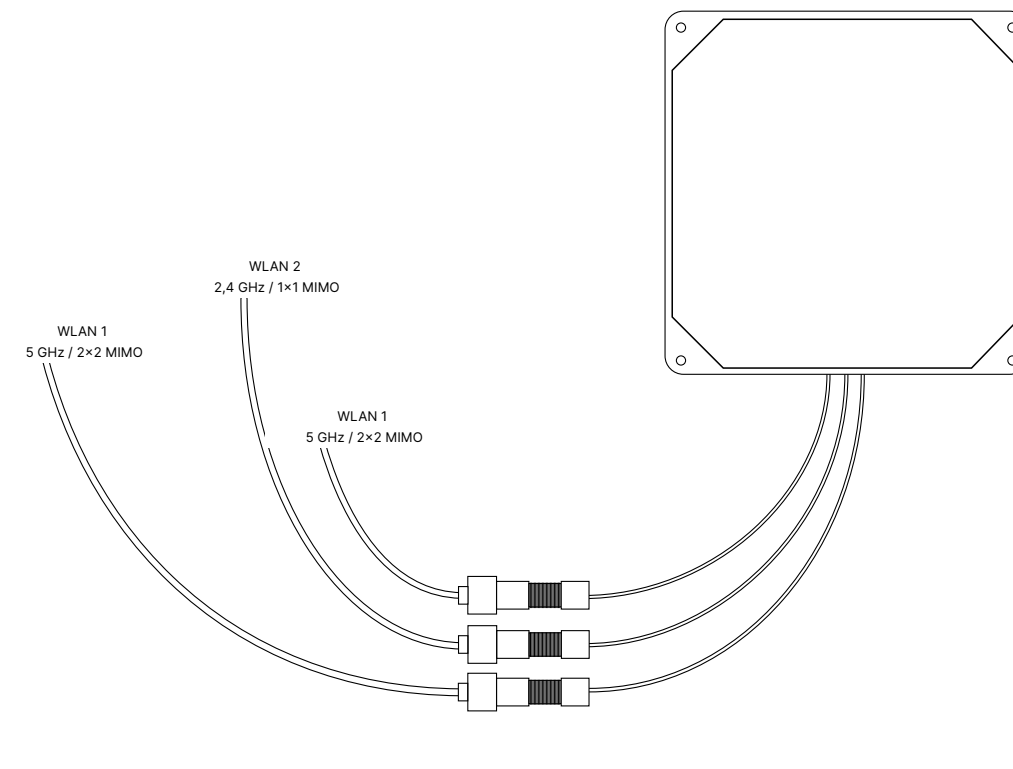


Operating mode 3x3 MIMO

In the 3x3 MIMO operating mode, all three antenna connectors are connected to the same Wi-Fi module of the access point.

Operating mode 2x2 MIMO & 1x1 MIMO

Apart from its standard operation as a 3x3 MIMO antenna, this antenna can also be used by two different Wi-Fi modules. For this purpose the connectors marked with -45° and +45° are connected with the first Wi-Fi module, and the middle connector is connected to the second Wi-Fi module. The two Wi-Fi modules should not be operated in the same frequency band. Please note that in this operating mode at least one antenna connector of the access point will be unused and has to be terminated.



Important information

Responsible handling of high frequency

In order to comply with the protection requirements of EU Directive 2014/53 and EN 62479 with regard to the basic restrictions for the safety of persons in electromagnetic fields and the „FCC Policy on Human Exposure to Radiofrequency Electromagnetic Fields“, it is necessary to configure the correct antenna gain in the WLAN router or WLAN access point.

Electrical and Electronic Equipment Act

Please do not dispose of electrical and electronic waste in household waste, where it cannot be recycled. Make sure that your electrical and electronic waste is disposed of in accordance with the currently valid guidelines of your country.

Correct handling of antenna cables

Antenna cables are sensitive RF cables. When laying them, it is therefore important to ensure that the cables are not kinked and are bent as little as possible, as this can result in losses in terms of antenna performance. Likewise, the antenna cables should not be wound into tight cable loops.

Antenna gain and termination of unused antenna ports on access points

Unused antenna connections on the access point must be terminated with an enclosed rod antenna. For indoor access points, the terminating resistor included with the AirLancer AN-RPSMA-NJ adapter can be used. In addition, the antenna gain must be specified in the configuration of the access point.

Technical data	ON-T90ag
Frequency range	2,400 - 2,500 MHz, 4,900 - 5,900 MHz
Antenna characteristics	
Radiation patterns	horizontally 2.4 GHz: 100° vertically 2.4 GHz: 90° horizontally 5 GHz: 75° vertically 5 GHz: 60°
Recommended use	Point-to-Multipoint, Sector
VSWR	1.5:1 typ. / 2.0:1 max.
Gain	2.4 GHz: 6 dBi max. 5 GHz: 5 dBi max.
Mechanical Data	
Dimensions (mm)	200 x 200 x 34 mm (Length x Width x Height)
Weight	450 g (Antenna without mounting kit)
Operating temperature	-40 °C to 70 °C
Color	Light grey
Material	UV resistant plastic
Mounting options	Fixed wall mount, Alignable wall- and pole mount (with optionally available AirLancer Mount (ON))
Cables & Connectors	3x 81,2 cm UV resistant RG316 cable with N-male connector
Item	
Warranty	2 years for AirLancer and accessories
Item no.	61241
Scope of delivery	Antenna, mounting material for fixed wall mount

