

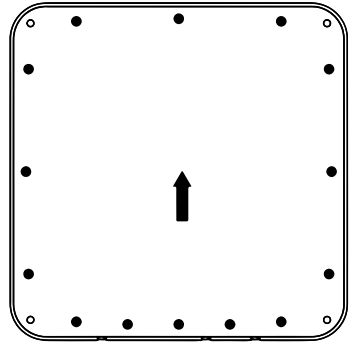
# LANCOM Antenna AirLancer ON-T90ag



## MOUNTING INSTRUCTIONS

### 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.



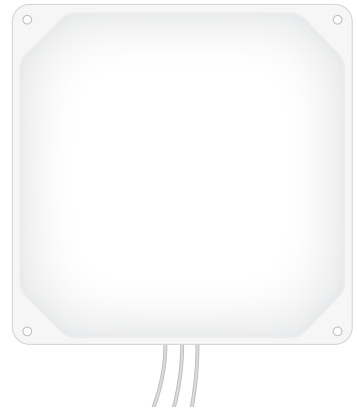
### Size of the drill holes

Using the markings as a guide, drill the holes and insert dowels if appropriate. Depending on the underground the 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.



## MOUNTING INSTRUCTIONS

### **Important**

#### **Working responsibly with high frequencies**

The AirLancer ON-T90ag meets the requirements of the R&TT directives EN62479 and the FCC regulations. To ensure compliance with these requirements, a minimum distance of 20 cm must be maintained between the antenna and the human body when operating the antenna.

### **Important**

#### **Electrical and electronic equipment law**

In the interests of recycling, please do not dispose of electrical and electronic waste in your household garbage. Ensure that your electrical and electronic waste is disposed of in accordance with the regulations in your country.

### **Important**

#### **Proper handling of antenna cables**

Antenna cables are sensitive RF cables. During installation it is important that the cables are not creased, and bent as little as possible, otherwise the antenna will suffer a loss in performance. Do not coil the antenna cable in tight loops.

# MOUNTING INSTRUCTIONS

## Important

### Antenna gain and terminating unused antenna connectors on the access point

It is essential for unused antenna connectors on the access point to be terminated with the supplied rod antenna. The terminating resistor supplied with the adapter AirLancer AN-RPSMA-NJ is suitable for use with indoor access points. In addition, you must disable the unused antenna connectors in LCOS (changing the antenna grouping of the respective WLAN module), and configure the antenna gain of the antenna. The settings can be found in LANconfig at:

Configuration > Wireless LAN > General > Physical WLAN settings > Radio

## Operating mode

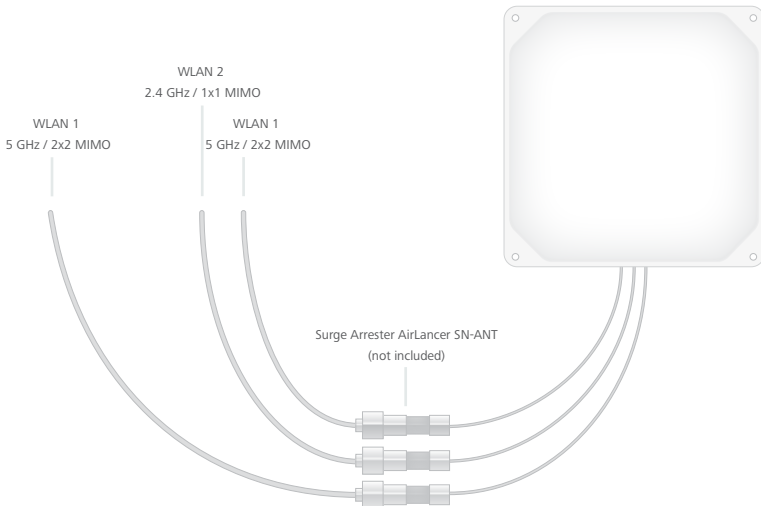
### 3x3 MIMO

In the 3x3 MIMO operating mode, all three antenna connectors are connected to the same WLAN 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 WLAN modules. For this purpose the connectors marked with  $-45^\circ$  and  $+45^\circ$  are connected with the first WLAN module, and the middle connector is connected to the second WLAN module. The two WLAN 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.



## Technical details

Frequency range 2400 - 2500 MHz, 4900 - 5900 MHz

## Antenna characteristics

Radiation characteristics	horizontal (2.4 GHz)	100°
	vertical (2.4 GHz)	90°
	horizontal (5 GHz)	75°
	vertical (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 details

Size 200 x 200 x 34 mm (length x width x height)

Weight 450 g (antenna without mounting kit)

Temperature range -40°C bis 70°C

Color Light grey

Material UV-resistant plastic

Mounting options Wall mounting, fixed  
Wall, and pole mounting, adjustable (with optionally available AirLancer Mount (ON))

Cables, connectors 3 x 81.2 cm UV-resistant RG316 cable with N-plug connector

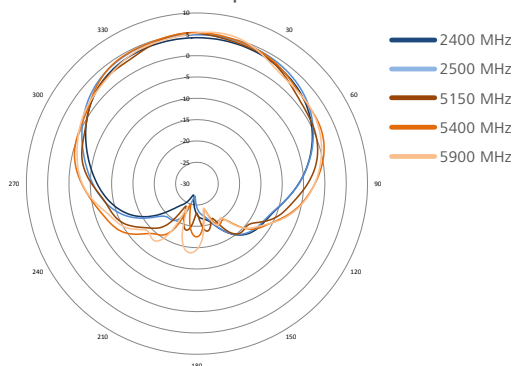
## Item

Warranty 2 years for AirLancer and accessories

Item number 61241

Package content Antenna, fastening screws, dowels, Quick Reference Guide

2.4 & 5 GHz h-plane



2.4 & 5 GHz e-plane

