LANCOM Antenna AirLancer ON-T60ag
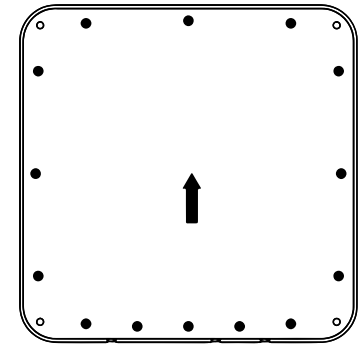
Preparation for wall mounting
Use the antenna as a drilling template to mark out the drill holes for the wall mounting. The horizontal and vertical separation of the adjacent holes is 173.7 mm.
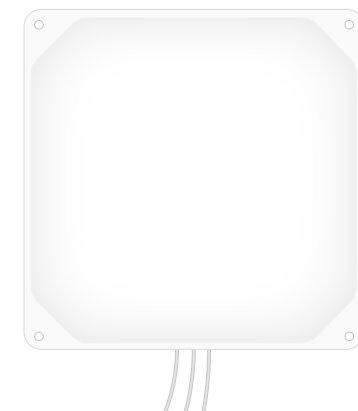
Size of the drill holes
Using the markings as a guide, drill the holes and insert dowels if appropriate. Depending on the underground the size of the holes may vary.

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.

Important
Working responsibly with high frequencies
For compliance with protection requirements of the EU directive 2014/53 and EN 62479 in relation to the basic limits for human safety in electromagnetic fields and the "FCC Policy on Human Exposure to Radiofrequency Electromagnetic Fields", it is essential to configure the accurate antenna gain value in the Wi-Fi router or Wi-Fi access point.

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.

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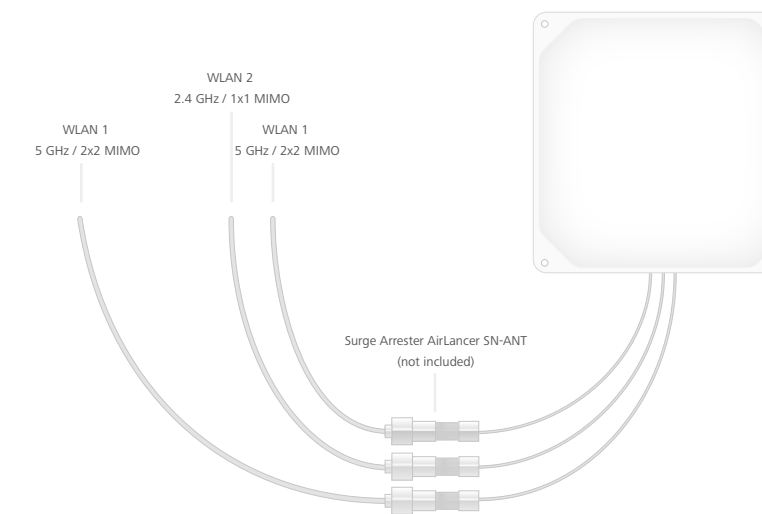
Operating mode
3x3 MIMO
In the 3x3 MIMO operating mode, all three antenna connectors are connected to the same Wi-Fi module of the access point.

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.

WLAN 2
2.4 GHz / 1x1 MIMO

WLAN 1
5 GHz / 2x2 MIMO

WLAN 1
5 GHz / 2x2 MIMO

Surge Arrester AirLancer SN-ANT
(not included)

Technical details	
Frequency range	2400 – 2500 MHz, 4900 – 5900 MHz

Antenna characteristics	
Radiation characteristics	horizontal (2.4 GHz) 70° vertical (2.4 GHz) 70° horizontal (5 GHz) 60° vertical (5 GHz) 55°
Recommended use	Point-to-multipoint, sector
VSWR	1.5:1 typ. / 2.0:1 max.
Gain	2.4 GHz 8 dbi max. 5 GHz 8 dbi max.

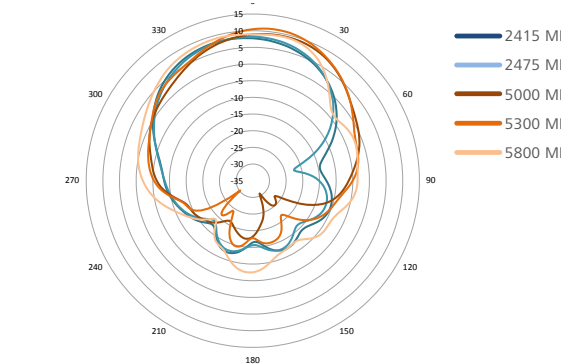| Mechanical details	
Size	200 x 200 x 34 mm (length x width x height)
Weight	450 g (antenna without mounting kit)
Temperature range	-40°C bis 70°C
Color	Light grey
Material	UV-resistant plastic
Mounting options	Wall mounting, fixed Wall, and pole mounting, adjustable (with optionally available AirLancer 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	61243
Package content	Antenna, fastening screws, dowels, Mounting instructions

2.4 & 5 GHz h-plane

2.4 & 5 GHz e-plane

- 2415 MHz
- 2475 MHz
- 5000 MHz
- 5300 MHz
- 5800 MHz