SECURE. **NETWORKS.**

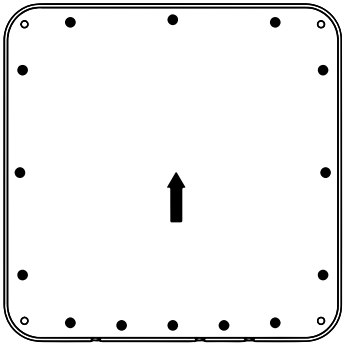
LANCOM Antenna AirLancer ON-Q60ag

LANCOM Systems

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.

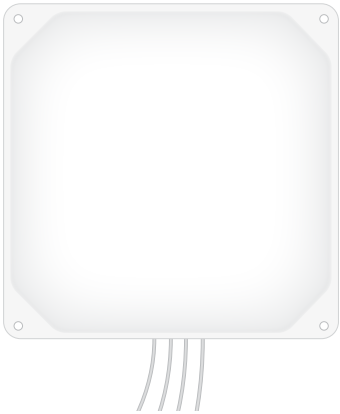


Size of the drill holes

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-Q60ag 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

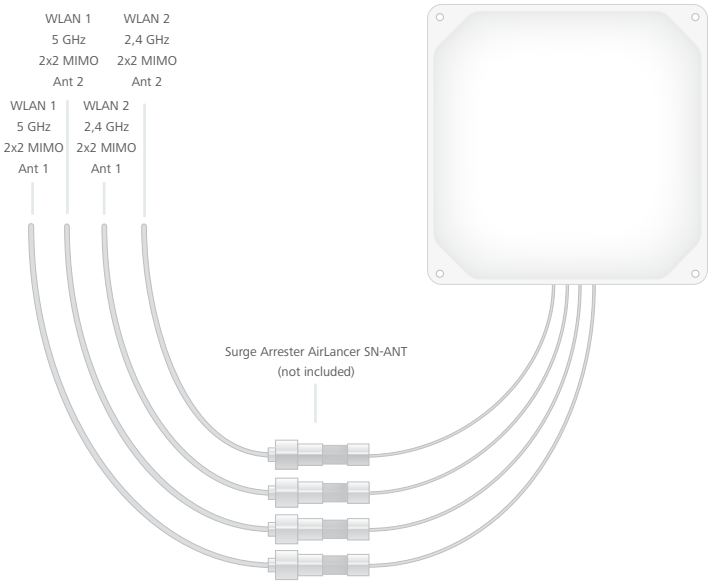
4x4 MIMO

In the 4x4 MIMO operating mode, all four antenna connectors are connected to the same WLAN module of the access point.

Operating mode

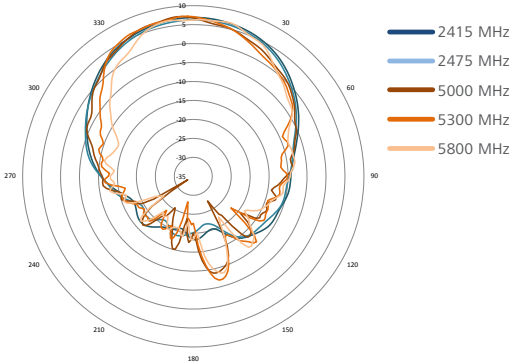
2x2 MIMO & 2x2 MIMO

Apart from its standard operation as a 4x4 MIMO antenna, this antenna can also be used by two different WLAN modules. For this purpose one set of the connectors marked with -45° and +45° are connected with the each WLAN module. The two WLAN modules should not be operated in the same frequency band.



Technical details	
Frequency range	2400 - 2500 MHz, 4900 - 5900 MHz
Antenna characteristics	
Radiation characteristics	horizontal (2.4 GHz) 65° vertical (2.4 GHz) 65° horizontal (5 GHz) 65° vertical (5 GHz) 65°
Recommended use	Point-to-multipoint, sector
VSWR	1.5:1 typ. / 2.0:1 max.
Gain	2.4 GHz 6.5 dbi max. 5 GHz 7.5 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	61248
Package content	Antenna, fastening screws, dowels, Quick Reference Guide

2.4 & 5 GHz h-plane



2.4 & 5 GHz e-plane