LANCOM Antenna
AirLancer ON-D9a

LANCOM
Systems
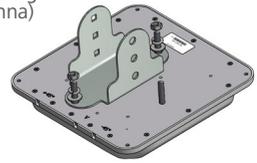
MOUNTING INSTRUCTIONS

Mounting preparation

Fix the mounting bracket (antenna) to the corresponding mounting bolts for 0° or 45° orientation at the backside of the antenna using a hex nut, a flat washer, and a lock washer per bolt as shown in the diagram.
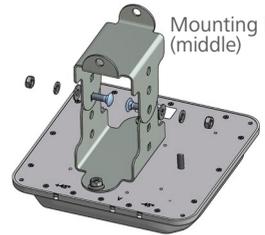
Connect the mounting bracket (antenna) and the mounting bracket (middle) using two screws plugged from the inner side of the brackets. Fasten the connection by first placing a flat washer and then a lock washer on each bolt. Attach the hex nuts to the bolts and tighten the nuts hand-tight. Then proceed with wall- or pole-mounting the antenna.

Mounting bolt

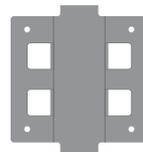Mounting bolt

Mounting bolt

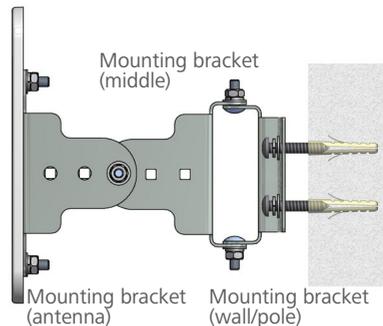Mounting bracket (antenna)

Mounting bracket (middle)

Wall mounting

Fix the mounting bracket (wall/pole) to a wall able to take weight using the four supplied screws and dowels. Then connect the mounting bracket (wall/pole) and the mounting bracket (middle) of the previously mounted unit using two screws plugged from the inner side of the brackets. Make sure that the drain holes on the backside of the antenna point downwards. Fasten the connection by first placing a flat washer and then a lock washer on each bolt. Attach the hex nuts to the bolts and tighten the nuts hand-tight. Align the antenna according to your needs and tighten all nuts firmly.

Mounting bracket (wall/pole)

Mounting bracket (middle)

Mounting bracket (antenna)

Mounting bracket (wall/pole)

MOUNTING INSTRUCTIONS

Pole mounting

Fix the mounting bracket (wall/pole) to a suitable pole
(Ø 4,2 cm - 5,8 cm) using the two supplied screw clamps.
Then connect the mounting bracket (wall/pole) and the
mounting bracket (middle) of the previously mounted unit
using two screws plug+ged from the inner side of the
brackets. Make sure that the drain holes on the backside
of the antenna point downwards. Fasten the connection by
first placing a flat washer and then a lock washer on each
bolt. Attach the hex nuts to the bolts and tighten the nuts
hand-tight. Align the antenna according to your needs and
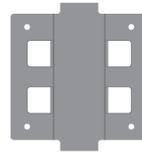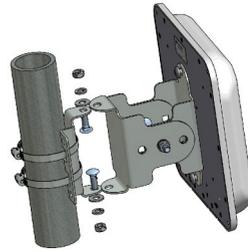tighten all nuts firmly.

Mounting bracket
(wall/pole)

Connecting to the access point

Antennas of the AirLancer ON-D9a model feature two
antenna connectors for the parallel transmission of two data
streams in combination with a LANCOM 802.11n / 802.11ac
MIMO Access Point. In this case, the following description
applies to each of the antenna connectors. Concerning
overvoltage protection, we strongly recommend the use of
the AirLancer SN-ANT (not included). When connecting to
an Access Point, first connect one end of the supplied cable
to the AirLancer SN-ANT. Then connect the other end to
the Access Point's antenna output. For connection to the
antenna, first connect the end of the antenna cable to the
AirLancer SN-ANT. Then connect the other end of the anten-
na cable to the antenna's input. You may require an adapter
or adapter cable depending on the type of connector.

MOUNTING INSTRUCTIONS

Important
Working responsibly with high frequencies
The AirLancer ON-D9a meets the requirements of the R&TT directives EN62479 and the FCC regulations. To ensure compliance with these requirements, an adequate safety distance 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.

Important
Antenna gain and terminating unused antenna connectors on the access point
It is essential to terminate unused antenna connectors on the access point 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

Technical details	
Frequency range	4900 - 5900 MHz
Antenna characteristics	
Radiation characteristics	horizontal 9° vertical 9°
Recommended use	Point-to-Point
VSWR	1.5:1 typ. / 2.0:1 max.
Gain	23 dbi
Mechanical details	
Size	340 x 340 x 30 mm (length x width x height)
Weight	1.6 kg (antenna without mounting kit)
Temperature range	-40°C to 80°C
Color	light grey
Material	UV-resistant plastic
Mounting options	Wall and pole mounting, adjustable
Cables, connectors	2x 50cm N-female-to-N-male adapter, 2x N-Female connector
Item	
Warranty	2 years for AirLancer and accessories
Item number	61244
Package content	Antenna, wall- and pole-mount accessories, Quick Reference Guide

5 GHz h-plane

5000 MHz
5300 MHz
5800 MHz

5 GHz e-plane