



LevelOne

WAN-1060

WAN-2085

WAN-2018

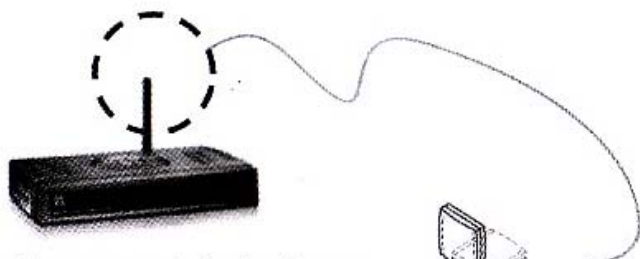
Enhanced Antenna for Wireless Devices

User`s Manual

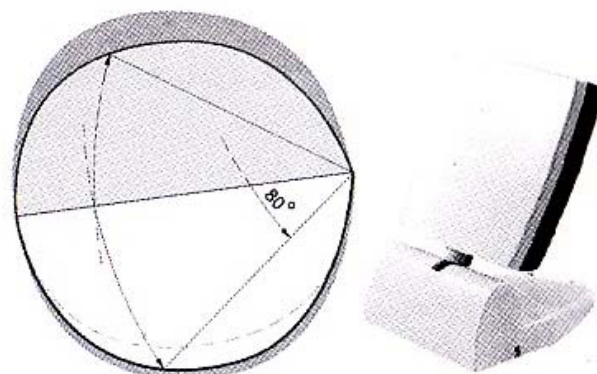
WAN-1060

6dBi Antenna for indoor environment

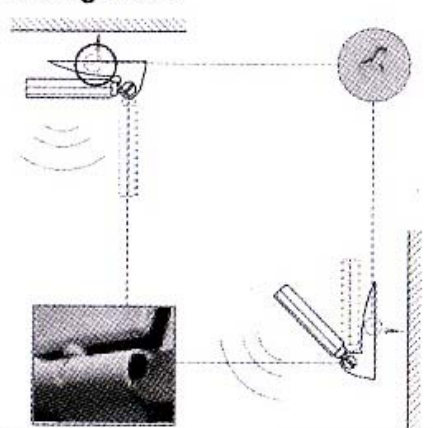
Specification



Remove one default antenna from the wireless device and start to assemble!



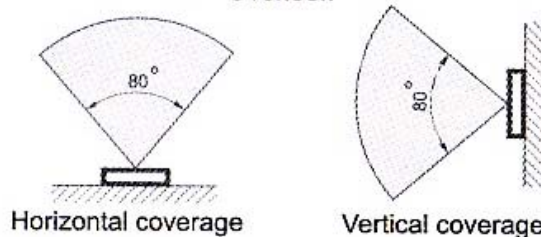
Ceiling mount



Fixed screw on antenna base

Wall Mount

Overlook



Horizontal coverage

Vertical coverage

Frequency band	2400-2500MHz
Antenna gain	6dBi
VSWR	1.5 max
Polarization	Linear vertical
HPBW / H-plane	80°
HPBW / E-plane	80°
Impedence	50 Ohms
Dimensions HxWxD	115x76x33mm
Weight	110g without joint

▲ CAUTION:

1. Always place the antenna on a flat or secure surface.
2. Concealing the antenna behind books, cabinets or other office equipment may affect the performance of the wireless networks.
3. The antenna transmission range may vary according to different environments or applications.

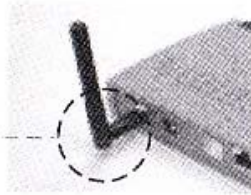
Package Contents:

- Antenna
- Extension Cable
- Mounting Kit
- User's Manual

Surge Protector Installation Guide (For WAN-2018 and WAN-2085)

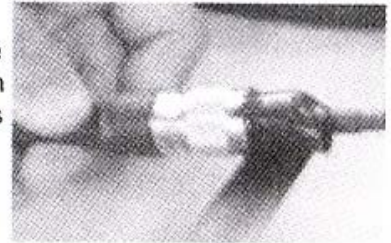
Step 1

Remove the default antenna.



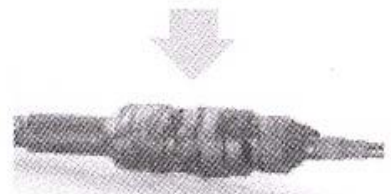
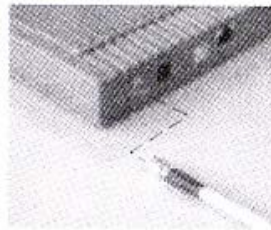
Step 5

Use water-proof tape to wrap around both connectors tightly, as the pictures showed below

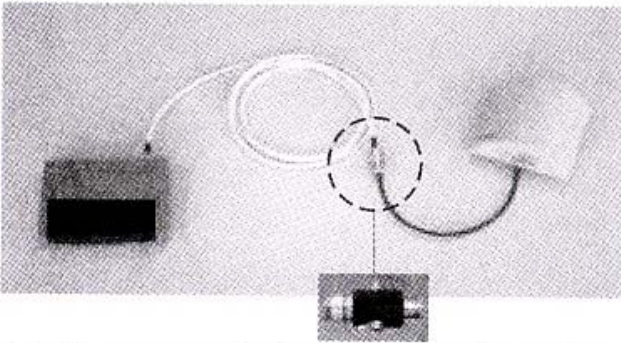


Step 2

Connect the extension cable onto the external connector on device.



Step 3



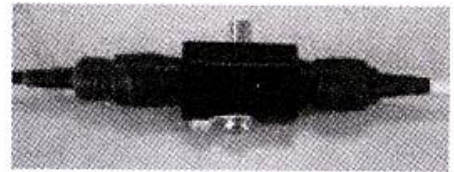
Install the surge protector as recommended position for the models without low-loss cable.(for example, WAN-2085.)



When install the surge protector between cables, wrap the connectors as well. The lightning protection adaptor for grounding the antenna.

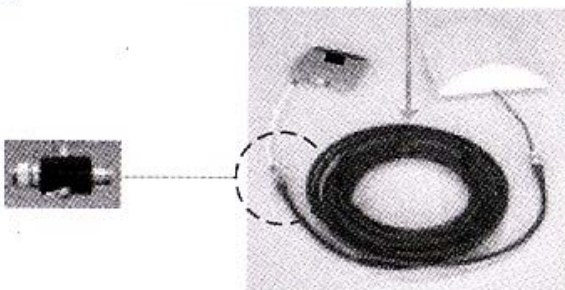
CAUTION!!

Please always put the surge protector indoors and near the device side, if you cannot keep it indoors, use the tapes to wrap all the connectors as pictures showed below.

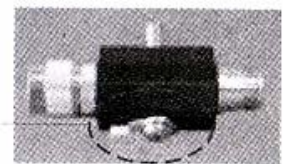


Step 4

Option: Ultra low-loss cable HDF-400
Length: 3M



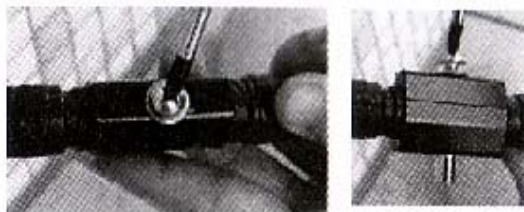
Install the surge protector as recommended position ,near the device side, when you have the low loss cables (enclosed within WAN-2018)



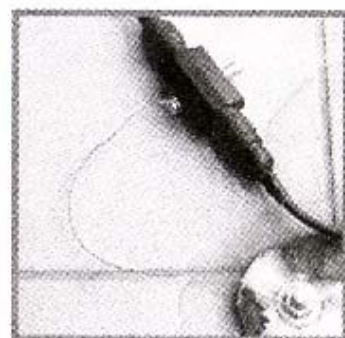
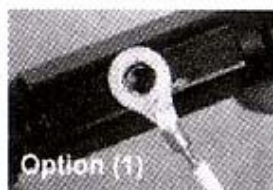
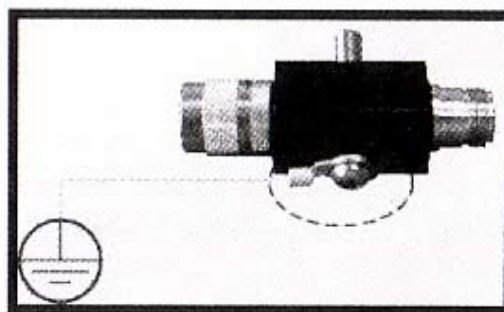
Option: Surge protector
Connectors: N-plug to N-jack

With Surge protector adaptor on an outdoor serial is attached to the lightning protection system (ground) of the building. All devices downstream are then protected by the ground from lightning strikes. It can protect your sensitive WLAN equipments from high voltage surges caused by discharge and transients at the antennas. It will be integrated in the cabling system between the antenna and the coax-cable and must have direct ground contact.

Ground Wire of Surge Protector Installation Guide



Step 1
loosen the screw from the surge protector.



Step 2
get a normal conductive copper wire with 2 sides stripped long enough to be conductive, these wires can lead high voltage surges into the grounding.



Ground

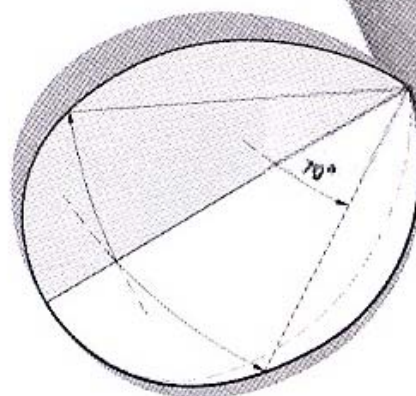
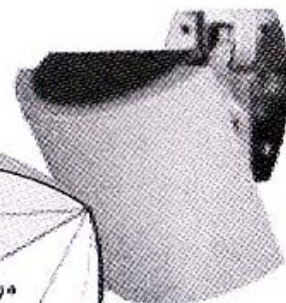
Step 3
find a conductive material nearby the antenna installation sites, connect another end of the wire into position, there are several options:

- (1) Use a long screw to stick into the ground tightly, connect another wire onto.
- (2) fix or solder another end of wire onto a steel material/ bar under steel construction, such as wall for buildings, railings or other conductive materials which set up from the ground.

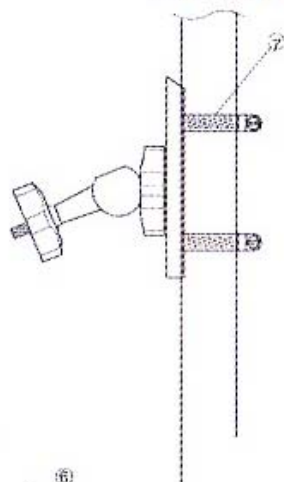
WAN-2085

8.5 dBi Antenna for indoor/outdoor Environment Specification

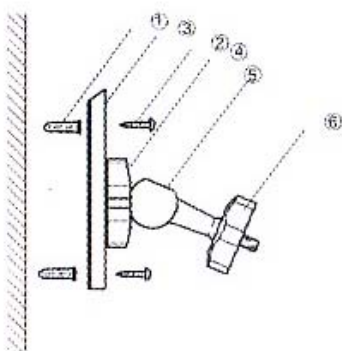
Remove one default antenna from the wireless device and start to assemble!



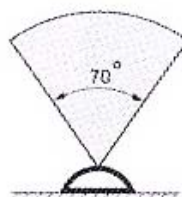
Pole mount



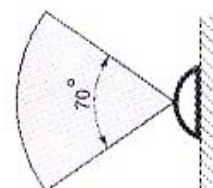
Wall mount



Overlook



Horizontal coverage



Vertical coverage

Installation Note:

The following parts are needed for wall mounting:

1. plastic wall anchors (4) screws
2. wall screws
3. mounting base
4. locking wheel on the mounting base
5. adjustable pivot arm
6. locking wheel for pivot arm

Frequency band	2400-2500MHz
Antenna gain	8.5 dBi
VSWR	1.5 max
Polarization	Linear vertical
HPBW / H-plane	70°
HPBW / E-plane	70°
Impedance	50 Ohms
Dimensions LxWxH	120x120x43mm
Weight	300g without joint

Package Contents:

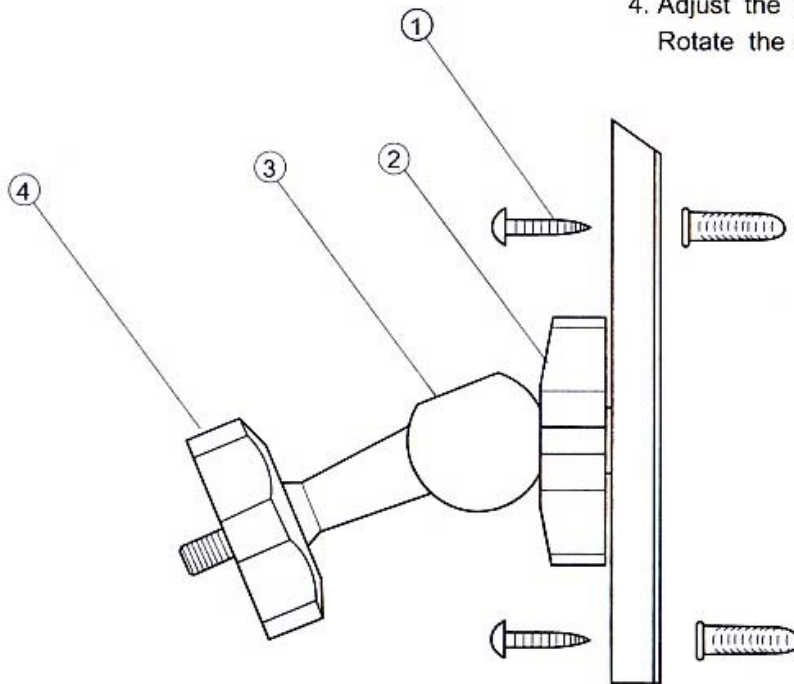
- Antenna
- Extension Cable 3 meters
- Mounting Kit
- Surge Protector
- Water-proof tape
- User`s Manual

WAN-2085 8.5dBi Antenna for 2.4 GHz

Version 1.0

Mounting Configuration

1. Insert the tapping screw ① to fix the whole set of universal joint on the wall
2. Rotate the mounting base of the antenna to connect antenna body and universal joint
3. Fix the mounting base by rotate the rotating handle ④
4. Adjust the ball joint ③ to the convenient angle
Rotate the handle to fix the ball joint ③



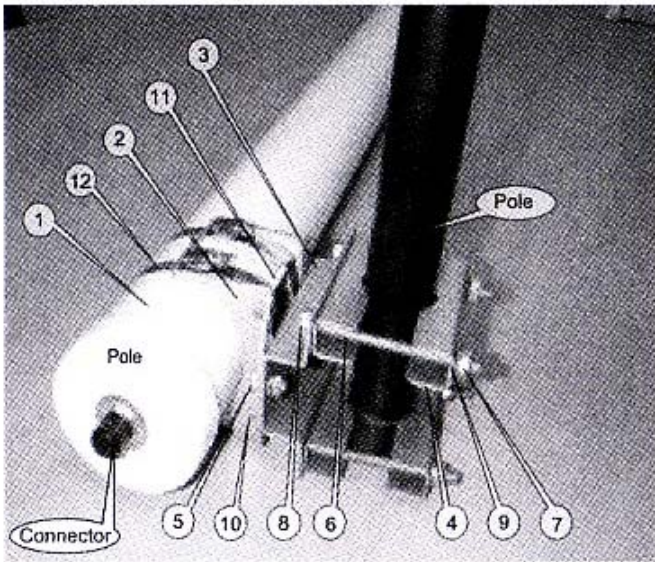
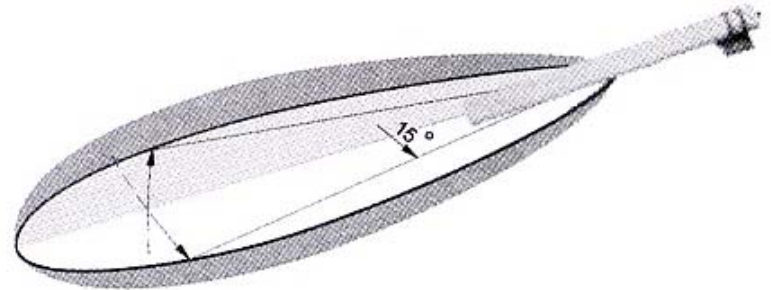
- ① Taping Screw
- ② Rotate Handle
- ③ Ball Joint
- ④ Rotating Handle

Universal Joint Mounting

WAN-2018

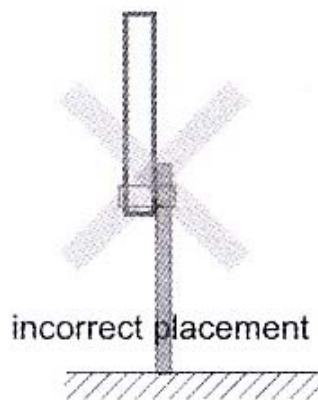
18dBi Directional Yagi Antenna Specification

Remove one default antenna from the wireless device and start to assemble!



Installation Note:

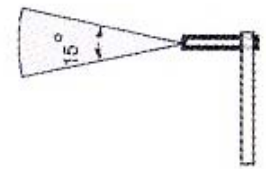
1. Main body
2. Angle mounting
3. Mounting bracket
4. 2" pole clamp
5. M8x 20 bolt
6. M8x 110 bolt
7. M8 nut
8. M8 washer
9. M8 spring washer
10. M6-95 screw
11. M6 nut
12. Band clamp



Overlook



Horizontal coverage



Vertical coverage

Frequency band	2400-2500 MHz
Antenna gain	18 dBi
VSWR	1.5 max
Polarization	Linear vertical
HPBW / H-plane	15°
HPBW / E-plane	15°
Impedance	50 Ohms
Dimensions LxWxH	ø89x1000 mm
Weight	3500g without joint

Package Contents:

- Antenna
- Extension Cable
- Mounting Kit
- Surge protector
- Water-proof tape
- User's Manual

WAN-2018 18dBi Directional Yagi Antenna for 2.4 GHz ISM Band

Version 1.0

Mounting Configuration

1. Main body	1 pcs
2. Angle mounting	1 pcs
3. Mounting Bracket	1 pcs
4. 2" pipe luck struck	4 pcs
5. M8x20 Bolt	2 pcs
6. M8x110 Bolt	4 pcs
7. M8-Nut	6 pcs
8. M8-Washer	6 pcs
9. M8-Spring Washer	6 pcs
10. M6x90 Screw	2 pcs
11. M6-Nut (SL)	2 pcs
12. Hose Clamps (4")	2 pcs

