Directional Panel Antenna

（600-800MHz）

T-522S

Before using, please read this manual carefully

Active directional panel antenna designed for conference room and professional stages. It will greatly improve signal stability and reduce interferences, signal drop-outs caused by polarization problems.

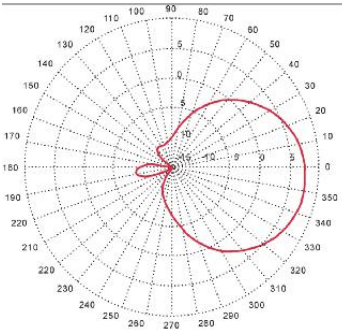
The both front and back area is the main focus of antenna direction for at a 45 degree horizontal angle polarization. The 45 polarized antenna can effectively reduce the polarization loss of the antenna to improve signal strength. It is the optimum solution for the 600~800 MHz bandwidth with 8 dBi antenna gain.

The polarity antenna is an ideal antenna system for utmost signal stability. Antenna features affect transmission range, stability and anti-interference performance. Therefore, the antenna is a vital component in any system installation, especially in complicated and demanding RF environments for wireless microphones and wireless monitoring systems. It greatly improves signal stability and reduces interference and signal drop-outs caused by polarization problems.

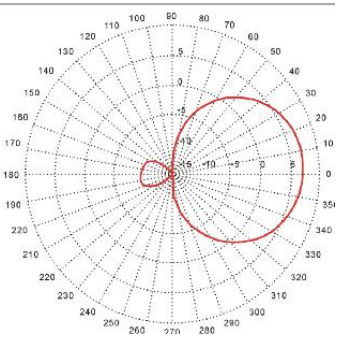
The polarity antenna has a built-in signal connector to a booster by a short coaxial cable then to receiver antenna connector, booster has a built-in 8-11 ± 1 dB gain and thus provides extended reception range and compensates the signal loss of coaxial cable to improve reception range and signal quality.

Waterproof and weather resistant, the polarity antenna is ideal for both outdoor and indoor applications.

Antenna Pattern



Vertical



Horizontal

Feature：

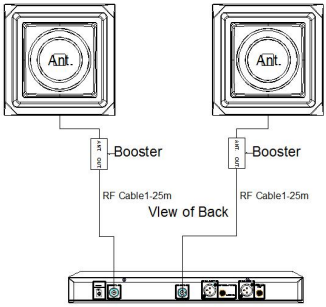
- High gain
- Full day working
- Optimized dimension
- Dual polarization

Application：

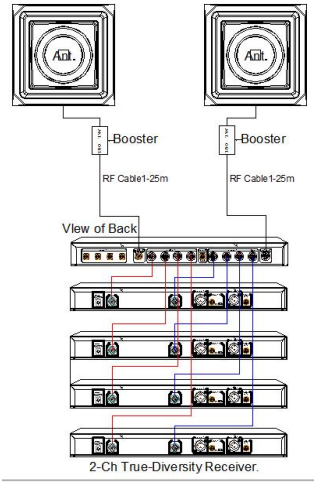
- 600MHz-800MHz system
- Wireless communication and data transmission system

600-800MHz Directional Panel Antenna Electrical Specifications	
Frequency range（MHz）	600～800
Polarization	Directional
Gain（dBi）	8
Half-power beam width（°）	H:60±5°　V:60±5°
Front-to-back ratio（dB）	≥23
VSWR	≤2.5
Input Impedance（Ω）	50
Side to be suppression for first side tobe above horizon	15 dB
Maximum input power（W）	50
Lightning protection	DC Ground
Mechanical Specifications	
Input connector type	BNC
Cable Type	50-3
Cable length（m）	0.3
Dimensions-mm (Height/Width/Depth)	285*285*80
Antenna weight （kg）	1.24
Material (color)	ABS (White)
Operating temperature（°c）	-40～60
Rated Wind Velocity（m/s）	60
Mounting hardware（mm）	¢35～¢50

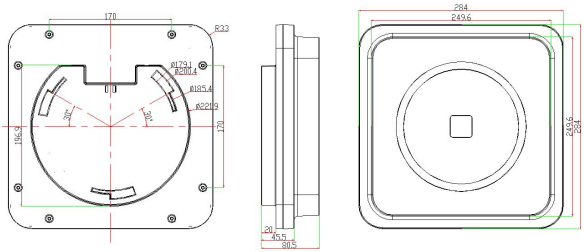
View of antenna connect to a booster by a short coaxial cable then to a receiver antenna connector



View of antenna connect to a booster by a short coaxial cable then to four receivers antenna connector by an antenna divider



Size:



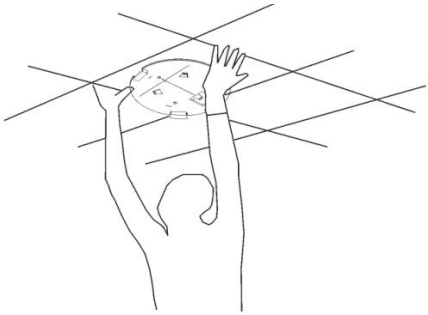
Install

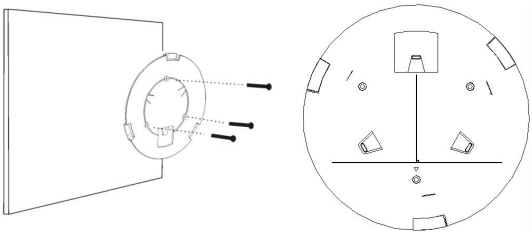
● Position the mounting disc to wall or ceiling first

● Fasten the mounting disc to wall or ceiling by 3 pieces screws

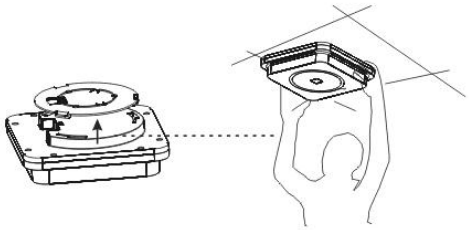
● Rotating through a 15° range the antenna in the mounting disc

STEP 1 Installed the mounting disc to the wall or ceillin

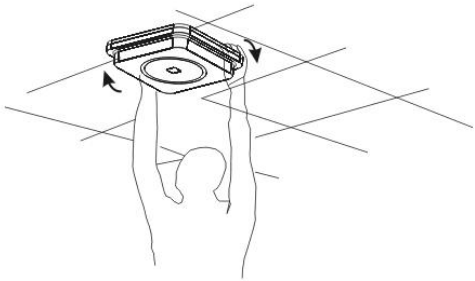




STEP 2 .Take the an antenna into mounting disc



STEP 3 Rotating through a 15° range the antenna in the mounting disc



When you hear a crackle, it means that it's done.

Mounting Disc

The antenna mount is designed to allow for vertical on the wall and horizontal for ceiling by the mounting fitting. For portable applications, the antenna may be installed on a standard

The antennas are supplied completely assembled Location

For best performance, antennas are installed should be needed attention as follows

@ The antennas should be installed, above head-height - .(In direct line-of-sight to the likely transmitter location)

@ The antennas should be installed in same area where line-of sight with transmitters not obstruction

@ A pair of antennas are installed should be at least 1m away from each other

@ A pair of antennas are installed should be at least 1m away from any large metal objects or sources of interference