



## Key Features

### Compact and Durable

Antenna materials are carefully chosen to minimize electrolytic corrosion and maximize rugged mechanical aspects to provide users with maintenance free operation

### High Performance Radiation Pattern

Superior RF and Ground Plane Design to Ensure Maximum Directivity and Minimizes Leakages

### Low Loss High Efficiency Radiation System

Exceptional VSWR ranging from 1.3 to 1.5 to maximize electrical to wireless power transfer

### Low Side and Back Lobe Radiation

Easier Frequency Coordination and Interference Mitigation

### Low Visibility

Neutral Color and Sleek Design Minimizes Visual Impact to Deployment Area

### Work Well in Highly Congested Area

Antenna Directivity Optimizes License Free Radio Spectrum to Provide More Aggregated Bandwidth Per Deployment Area

### Center Pin Grounded

Minimize Transient Voltage Protection for Connected Radio System

## General Technical Specifications

### Electrical

Polarization	Linear
Impedance	50 ± 5 Ohms
VSWR	1:1.3 Max

### Mechanical

Connector Type	N Female
Temperature Range	-20°C to +60°C
Random Color	White
Random Material	Fiber Glass
Random Base Material	Copper
Mounting Method	Vertical
Max Pole Size	2 inches

# AirEther™ OA Series

## 2.4GHz and 5GHz Omni Directional Antennas

Inscape Data Corporation, the leading outdoor network appliance company, offers a broad range of high gain antennas, 9dBi to 29dBi, for every major license free air interface technology with broad deployments in all regions. The portfolio of Inscape Data omni-directional antenna system includes all-weather antennas for outdoor long range license free radios and WiFi systems in bands ranging from 2.4GHz up to 6 GHz. The high performance and low loss omni-directional panel antennas are built ground up with focus on reliability, durability, and performance. Inscape Data omni directional antenna offers the best return on investment for the license free long range wireless industry.

## Applications



### WIRELESS NETWORK SOLUTIONS

Building to building wireless connectivity or point to multipoint wireless bridges, Inscape Data outdoor antenna system provides high reliability and performance for the most demanding wireless networking applications



### CARRIER SOLUTIONS

Inscape Data antenna solutions provide the best in class transmission electrical characteristics between 2.4 GHz and 5.8 GHz. The high performance characteristics keep the carrier wide-band high capacity backhaul and wireless transmission networks moving in the most extreme weather conditions



### WIRELESS INFRASTRUCTURE

Complete outdoor wireless infrastructure antenna solutions from Inscape Data catering to wireless internet service providers, municipalities, SCADA, wireless machine to machine, telemetry, institutions, campuses, and more. Inscape Data is your one-stop source for high performance economical antenna solutions



### WIRELESS VIDEO SECURITY

For hard to wire video applications, Inscape Data outdoor antenna system economically transmit and receive sensitive security images to secure parking lots, property perimeter, and even the most remote places

## System Configurations

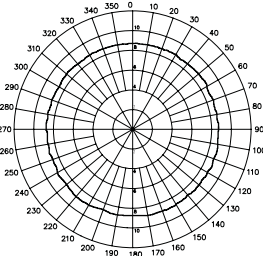
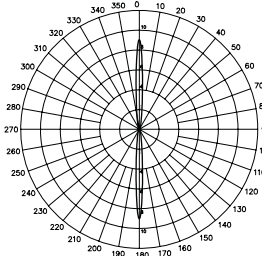
Band	2.4GHz			5GHz	
Model Name	OA09	OA12	OA15	OA5G09	OA5G12
Electrical					
Frequency Range	2400~2500MHz	2400~2500MHz	2400~2500MHz	5100~5900MHz	5100~5900MHz
Gain (dBi)	9 dBi	12 dBi	15 dBi	9 dBi	12 dBi
3 dB Horizontal Beamwidth	360°	360°	360°	360°	360°
3 dB Vertical Beamwidth	10°	10°	10°	6°	6°
Maximum Power Input	15W	15W	15W	10W	10W
Mechanical					
Dimensions	ø 35 x 420mm	ø 51 x 900mm	ø 51 x 1600mm	ø 35 x 420mm	ø 35 x 420mm
Weight	430g	910g	910g	410g	430g

2.4GHz OA Patterns

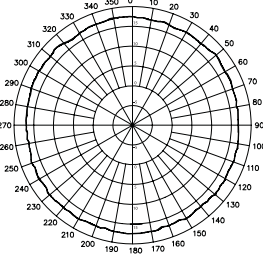
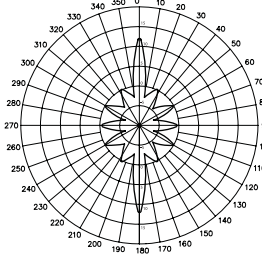
E-Plane Field Patterns

H-Plane Field Patterns

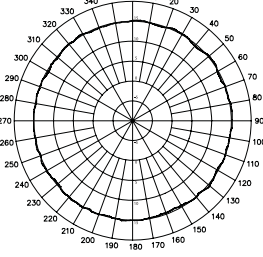
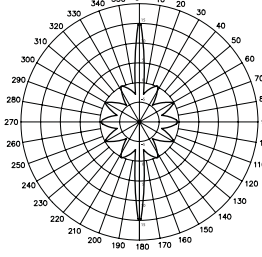
OA09



OA12



OA15

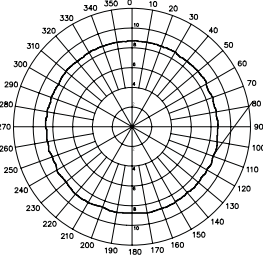
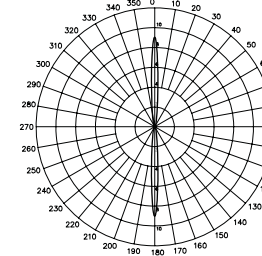


5GHz OA Patterns

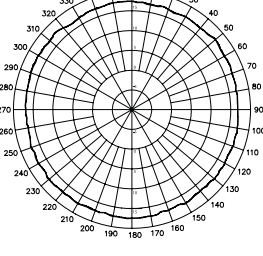
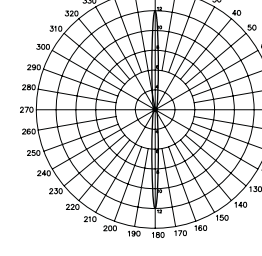
E-Plane Field Patterns

H-Plane Field Patterns

OA5G09

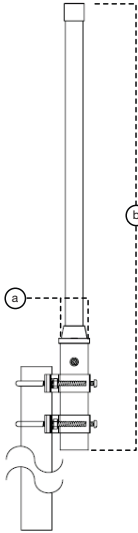


OA5G12



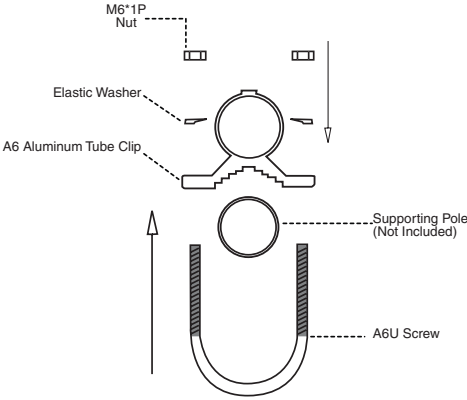
Dimensions

Frequency & Part No.	Dimension axb
2.4GHz - OA09	Ø35 x 420mm
2.4GHz - OA12	Ø51 x 900mm
2.4GHz - OA15	Ø51 x 1600mm
4.9GHz - OA49G12	Ø35 x 420mm
5GHz - OA5G09	Ø35 x 420mm
5GHz - OA5G12	Ø35 x 420mm



Bracket Information

Bracket Type	Wall & Pole Mount
Max Pole Diameter	2 inches
Material	Stainless Steel



Accessories

AC100  
1M Low Loss Antenna Cable,  
N-Male to N-Male



LSS0001  
0~6GHz High Performance  
RF Lighting Arrestor



Package Contents

- Panel Antenna
- Wall and Pole Mount Kit
- Antenna Literature



THE LEADING  
OUTDOOR NETWORK  
APPLIANCE COMPANY

Total Turnkey Solutions for Outdoor PoE, Wired/Wireless, and IP Video Applications

Product Information Online: [www.inscapedata.com/antenna-oa.htm](http://www.inscapedata.com/antenna-oa.htm)

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