



## PRODUCT 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

# AirEther™ Directional Panel Antennas 2.4GHz, 4.9GHz, and 5GHz PA Series

Inscape Data Corporation, the leader in wireless and IP video systems, 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 directional panel 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 directional panel antennas are built ground up with reliability and durability. Inscape Data directional panel antenna offers the best return on investment for value-priced license free long range wireless industry.

## GENERAL TECHNICAL SPECIFICATIONS

### Electrical

<b>Polarization</b>	Linear
<b>Impedance</b>	50 ± 5 Ohms

### Mechanical

<b>Connector Type</b>	N Female
<b>Temperature Range</b>	-20°C to +60°C
<b>Max Pole Size</b>	2 inches
<b>Reflector Material</b>	Aluminum Alloy

## 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



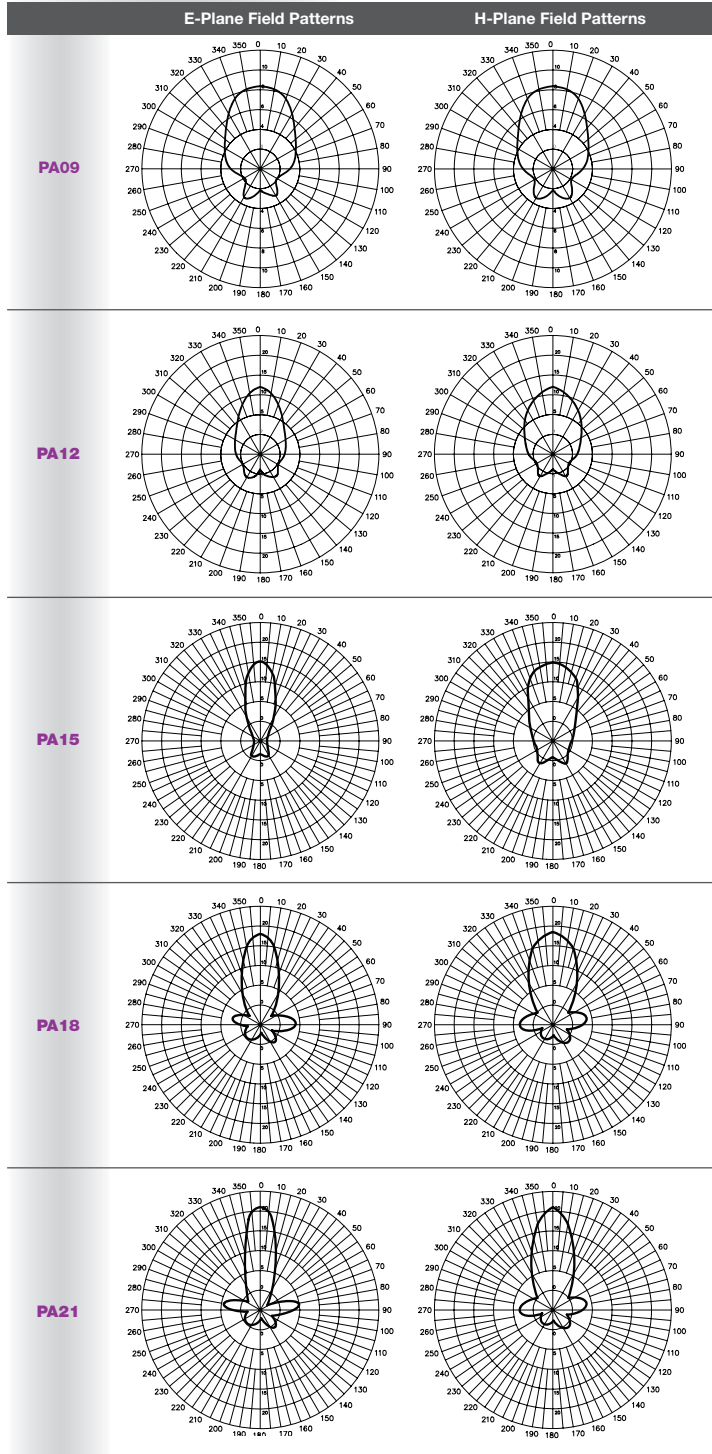
### WIRELESS VIDEO SECURITY

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

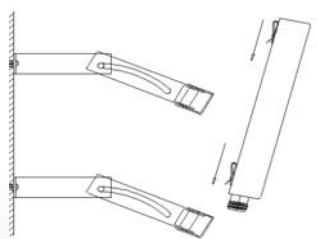
## TECHNICAL SPECIFICATIONS

Band Model Name	2.4GHz					4.9GHz		5GHz	
	PA09	PA12	PA15	PA18	PA21	PA49G18	PA49G21	PA5G18	PA5G21
<b>Electrical</b>									
<b>Frequency Range</b>	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	4800~5000MHz	4800~5000MHz	5100~5900MHz	5100~5900MHz
<b>Gain (dBi)</b>	9 dBi	12 dBi	15 dBi	18 dBi	21 dBi	18 dBi	21 dBi	18 dBi	21 dBi
<b>3 dB Horizontal Beamwidth</b>	75	50	45	30	20	10	20	10	10
<b>3 dB Vertical Beamwidth</b>	75	30	25	20	15	10	15	10	8
<b>Front-to-Back Ratio</b>	15dB	20dB	25dB	30dB	35dB	30dB	35dB	30dB	35dB
<b>Maximum Power Input</b>	10W	10W	10W	20W	20W	10W	20W	10W	20W
<b>VSWR</b>	1:1.5 Max	1:1.5 Max	1:1.5 Max	1:1.5 Max	1:1.3 Max	1:1.5 Max	1:1.5 Max	1:1.5 Max	1:1.3 Max
<b>Mechanical</b>									
<b>Dimensions</b>	107x90x30mm	215x90x30mm	454x134x30mm	463x263x30mm	370x370x35mm	270x205x15mm	370x370x35mm	263x263x48mm	370x370x35mm
<b>Weight</b>	280g	560g	800g	900g	2.1kg	310g	2.1kg	1.68kg	2.1kg
<b>Random Color</b>	White	White	White	White	White	Gray & White	White	Gray & White	White
<b>Random Material</b>	PVC	PVC	PVC	PVC	PVC	PC & ABS	PC & ABS	PC & ABS	PVC
<b>Mounting Method</b>	Vertical	Vertical	Vertical	Vertical	Horizontal	Horizontal	Horizontal	Vertical	Vertical

## 2.4GHz PA PATTERNS

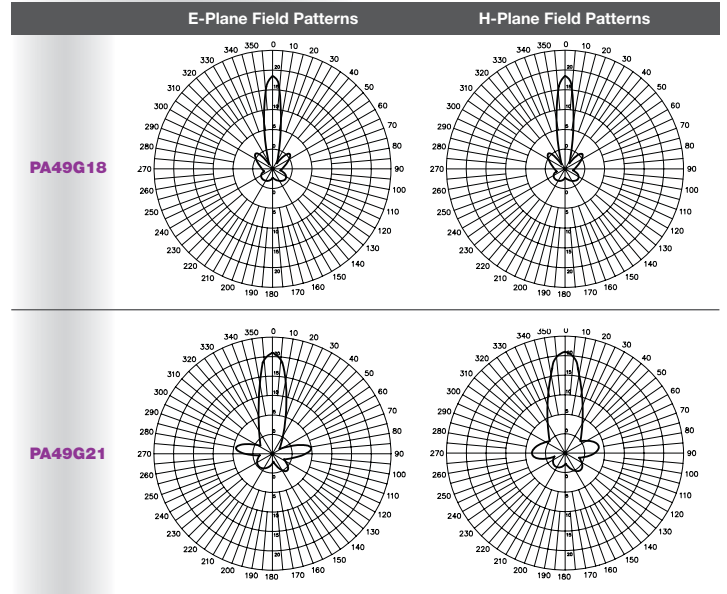


## BRACKET INFORMATION

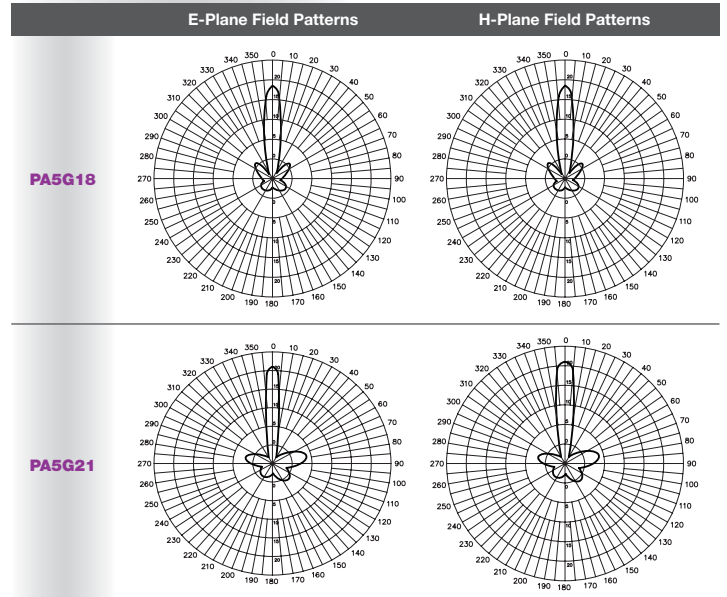


Bracket Type	Swivel Wall & Pole Mount
Part No.	SB100
Max Length	19cm
Min Length	12cm
Weight	470g
Swivel Angel	+/- 90° (H) +/- 40° (V)
Material	Stainless Steel

## 4.9GHz PA PATTERNS



## 5GHz PA PATTERNS



## ACCESSORIES

### AC100

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



### LSS0001

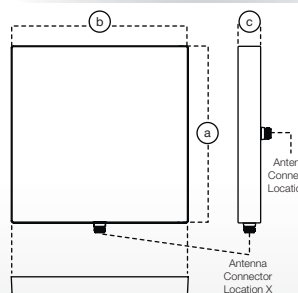
0~6GHz High Performance  
RF Lighting Arrestor



## PACKAGE CONTENTS

- Panel Antenna
- Wall Mount Kit
- SB100 Wall and Mast Mount Swivel Bracket Kit with U-Bolts
- Antenna Literature

## DIMENSIONS & INTERFACE



Frequency & Part No.	Dimension a x b x c	Connector Location
<b>2.4GHz - PA09</b>	107x90x30mm	X
<b>2.4GHz - PA12</b>	215x90x30mm	X
<b>2.4GHz - PA15</b>	454x134x30mm	X
<b>2.4GHz - PA18</b>	263x263x30mm	X
<b>2.4GHz - PA21</b>	370x370x35mm	Y
<b>4.9GHz - PA21</b>	270x205x15mm	X
<b>4.9GHz - PA18</b>	370x370x35mm	Y
<b>5GHz - PA18</b>	263x263x48mm	X
<b>5GHz - PA21</b>	370x370x35mm	Y

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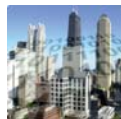
**InscapeData**  
The Leader in Wireless and IP Video Systems

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## AirEther™ Omni Directional Antennas 2.4GHz, 4.9GHz, and 5GHz OA Series

Inscape Data Corporation, the leader in wireless and IP video systems, 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 directional panel 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



#### 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



#### 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 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

### TECHNICAL SPECIFICATIONS

Band	2.4GHz			4.9GHz	5GHz	
Model Name	OA09	OA12	OA15	OA49G12	OA5G09	OA5G12
<b>Electrical</b>						
Frequency Range	2400~2500MHz	2400~2500MHz	2400~2500MHz	4800~5000MHz	5100~5900MHz	5100~5900MHz
Gain (dBi)	9 dBi	12 dBi	15 dBi	12 dBi	9 dBi	12 dBi
3 dB Horizontal Beamwidth	360°	360°	360°	360°	360°	360°
3 dB Vertical Beamwidth	10°	10°	10°	6°	6°	6°
Maximum Power Input	15W	15W	15W	10W	10W	10W
<b>Mechanical</b>						
Dimensions	ø 35 x 420mm	ø 51 x 900mm	ø 51 x 1600mm	ø 35 x 420mm	ø 35 x 420mm	ø 35 x 420mm
Weight	430g	910g	910g	430g	410g	430g



### PRODUCT 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

<b>Polarization</b>	Linear
<b>Impedance</b>	50 ± 5 Ohms
<b>VSWR</b>	1:1.3 Max

#### Mechanical

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

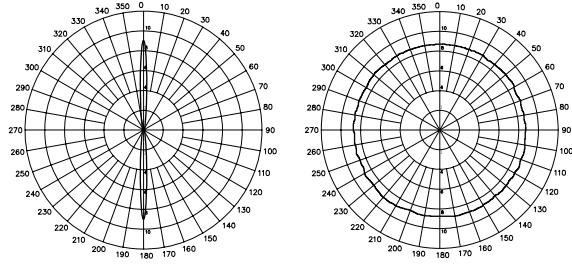


## 2.4GHz OA PATTERNS

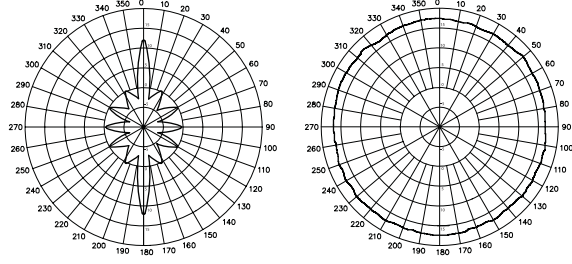
E-Plane Field Patterns

H-Plane Field Patterns

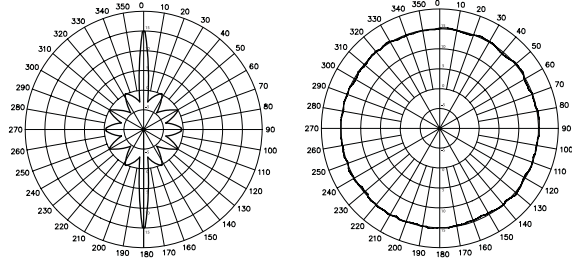
OA09



OA12



OA15

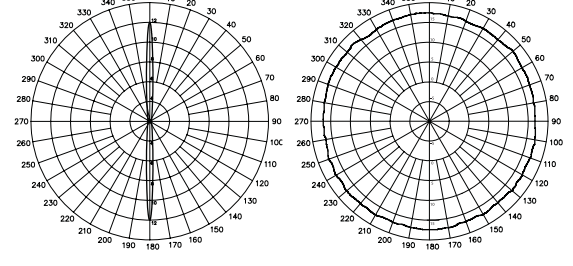


## 4.9GHz OA PATTERNS

E-Plane Field Patterns

H-Plane Field Patterns

OA49G12

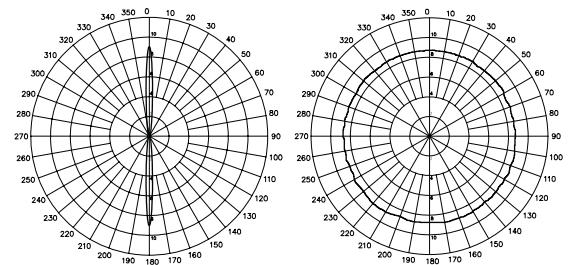


## 5GHz OA PATTERNS

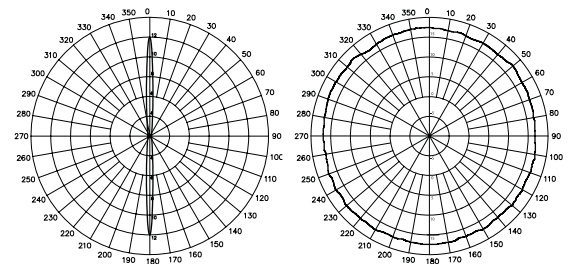
E-Plane Field Patterns

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

## ACCESSORIES

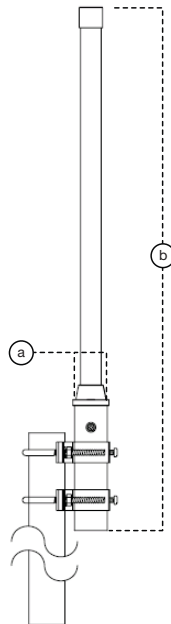
### AC100

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



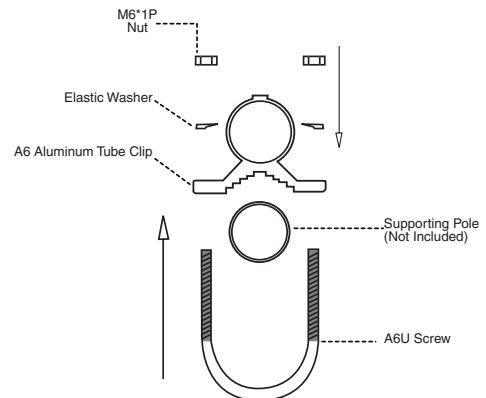
### LSS0001

0~6GHz High Performance  
RF Lighting Arrestor



## BRACKET INFORMATION

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



## PACKAGE CONTENTS

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

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## PRODUCT KEY FEATURES

### Compact and Durable

Cross drilled corrosion resistant coated galvanized steel reflector and stainless steel bracket mounts maximize rugged mechanical aspects and minimize wind loading 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

<b>Max Power Input</b>	15W
<b>Polarization</b>	Linear
<b>Impedence</b>	50 ± 5 Ohms
<b>VSWR</b>	1:1.3 Max

### Mechanical

<b>Connector Type</b>	N Female
<b>Temperature Range</b>	-20°C to +60°C
<b>Random Color</b>	Gray Corrosion Resistant Enamel
<b>Random Material</b>	ABS
<b>Reflector Material</b>	Galvanized Steel
<b>Mounting Method</b>	Vertical
<b>Max Pole Size</b>	2 inches

# AirEther™ Sector Antennas 2.4GHz, 4.9GHz, and 5GHz SA Series

Inscape Data Corporation, the leader in wireless and IP video systems, 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 sector 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 sector antennas are built ground up with focus on reliability, durability, and performance. Inscape Data sector 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



### 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



### 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 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

## TECHNICAL SPECIFICATIONS

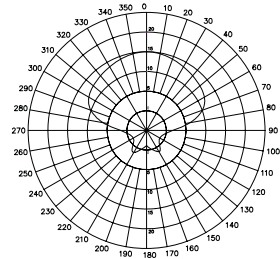
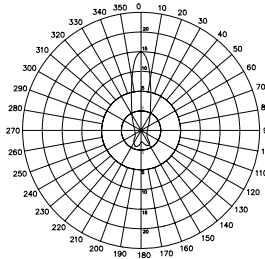
Band Model Name	2.4GHz			4.9GHz		5GHz	
	SA15	SA1218	SA1821	SA49G15	SA49G1521	SA5G15	SA5G1521
<b>Electrical</b>							
<b>Frequency Range</b>	2400~2500MHz	2400~2500MHz	2400~2500MHz	4800~5000MHz	4800~5000MHz	5100~5900MHz	5100~5900MHz
<b>Gain (dBi)</b>	15 dBi	12~18 dBi	15~21 dBi	15 dBi	15~21 dBi	15 dBi	15~21 dBi
<b>3 dB Horizontal Beamwidth</b>	120°	60°~120°	60°~120°	120°	60°~120°	120°	60°~120°
<b>3 dB Vertical Beamwidth</b>	10°	10°	10°	10°	10°	10°	10°
<b>Front-to-Back Ratio</b>	30dB	25dB	30dB	30dB	30dB	30dB	30dB
<b>Mechanical</b>							
<b>Dimensions</b>	865 x 130 x 65mm	370 x 130 x 65mm	865 x 130 x 65mm	370 x 130x 65mm	370 x 130x 65mm	370 x 130 x 65mm	370 x 130 x 65mm
<b>Weight</b>	3.4kg	3.05kg	4.84kg	2.4kg	3.09kg	2.4kg	3.09kg

## 2.4GHz SA PATTERNS

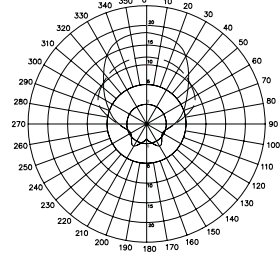
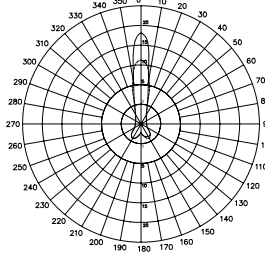
E-Plane Field Patterns

H-Plane Field Patterns

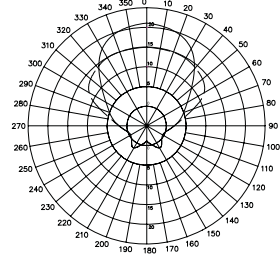
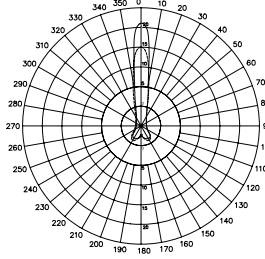
SA15



SA1218



SA1821



## ACCESSORIES

### AC100

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



### LSS0001

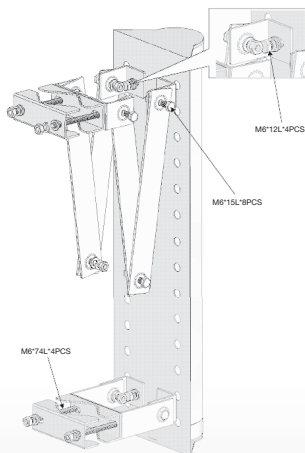
0~6GHz High Performance  
RF Lighting Arrestor



## PACKAGE CONTENTS

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

## BRACKET INFORMATION



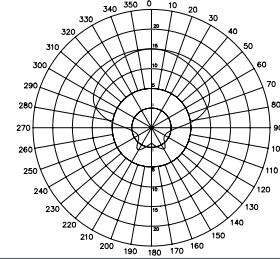
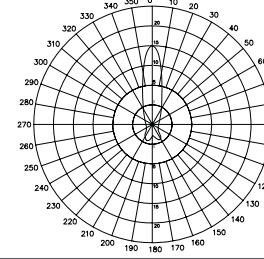
Bracket Type	Swivel Wall & Pole Mount
Max Length	52cm
Min Length	20cm
Weight	470g
Swivel Angel	+/- 90° (H) +/- 40° (V)
Material	Powder Coated Steel

## 4.9GHz SA PATTERNS

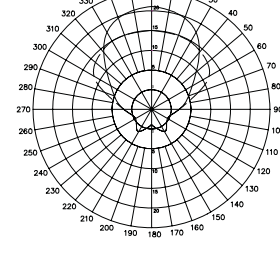
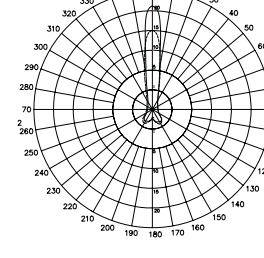
E-Plane Field Patterns

H-Plane Field Patterns

SA49G15



SA49G1521

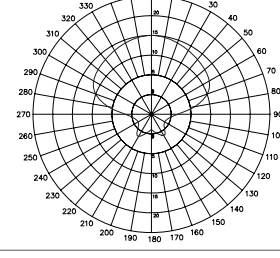
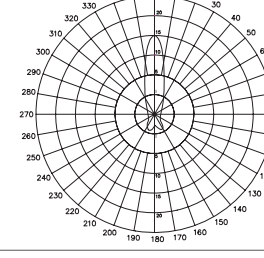


## 5GHz SA PATTERNS

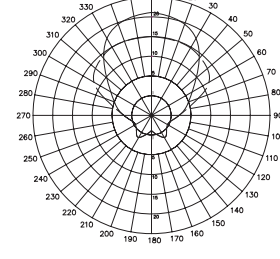
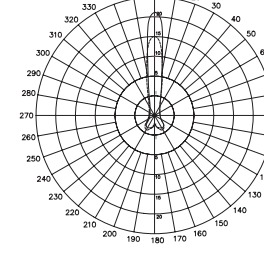
E-Plane Field Patterns

H-Plane Field Patterns

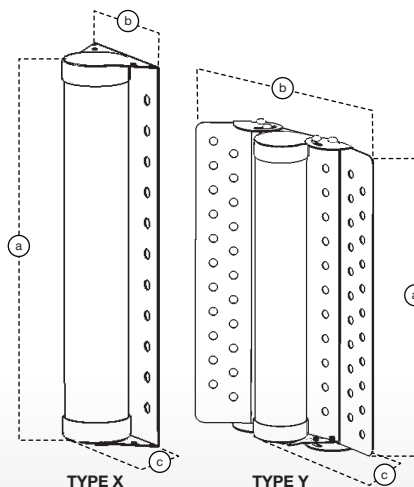
SA5G15



SA5G1521



## DIMENSIONS



Frequency & Part No.	Dimension axbxc	Antenna Type
2.4GHz - SA15	865x130x65mm	X
2.4GHz - SA1218	370x130x65mm	Y
2.4GHz - SA1821	865x130x65mm	Y
4.9GHz - SA49G15	370x130x65mm	X
4.9GHz - SA49G1521	370x130x65mm	Y
5GHz - SA5G15	370x130x65mm	X
5GHz - SA5G1521	370x130x65mm	Y

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## AirEther™ Grid Antennas 2.4GHz and 5GHz GA Series

Inscape Data Corporation, the leader in wireless and IP video systems, 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 grid antenna system includes all-weather antennas for outdoor long range license free radios and WiFi systems in bands ranging from 2.4GHz up to 6GHz. The high performance and low loss grid antennas are built ground up with focus on reliability, durability, and performance. Inscape Data grid 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



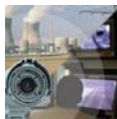
#### WIRELESS INFRASTRUCTURE

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



#### 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 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

### PRODUCT KEY FEATURES



#### Compact and Durable

High quality construction of corrosion resistant coated galvanized steel with stainless steel bracket system offers precise rugged mechanical aspects and 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

<b>3dB Horizontal Beamwidth</b>	8°
<b>3dB Vertical Beamwidth</b>	5°
<b>Polarization</b>	Linear
<b>Impedance</b>	50 ± 5 Ohms

#### Mechanical

<b>Connector Type</b>	N Female
<b>Temperature Range</b>	-20°C to +60°C
<b>Random Color</b>	White Corrosion Resistant Enamel
<b>Random Material</b>	ABS
<b>Random Base Material</b>	Galvanized Steel
<b>Mounting Method</b>	Horizontal
<b>Max Pole Size</b>	2 inches

### TECHNICAL SPECIFICATIONS

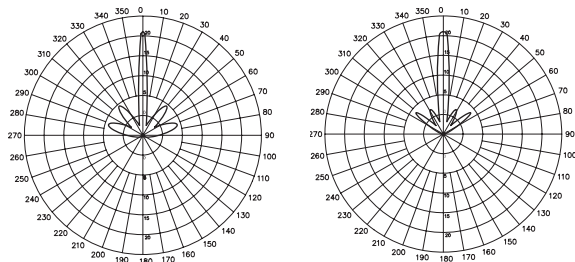
Band Model Name	2.4GHz		5GHz		
	GA21	GA24	GA5G24	GA5G26	GA5G29
<b>Electrical</b>					
<b>Frequency Range</b>	2400~2500MHz	2400~2500MHz	5100~5900MHz	5100~5900MHz	5100~5900MHz
<b>Gain (dBi)</b>	21 dBi	24 dBi	24 dBi	26 dBi	29 dBi
<b>Front-to-Back Ratio</b>	30dB	35dB	30dB	30dB	35dB
<b>Maximum Power Input</b>	15W	25W	20W	20W	25W
<b>VSWR</b>	1:1.5 Max	1:1.5 Max	1:1.5 Max	1:1.3 Max	1:1.3 Max
<b>Mechanical</b>					
<b>Dimensions</b>	L600xH435xD250mm	ø 900x250mm	L600xH435xD250mm	ø 610x250mm	ø 900x250mm
<b>Weight</b>	1.4Kg	4.21Kg	1.4Kg	2.87Kg	4.86Kg

## 2.4GHz GA PATTERNS

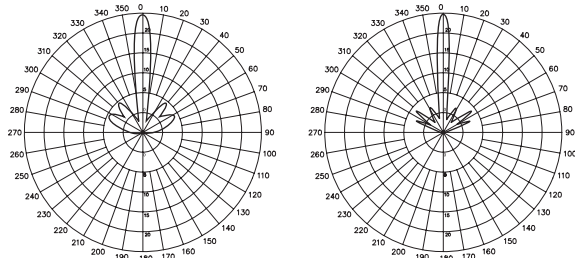
E-Plane Field Patterns

H-Plane Field Patterns

GA21

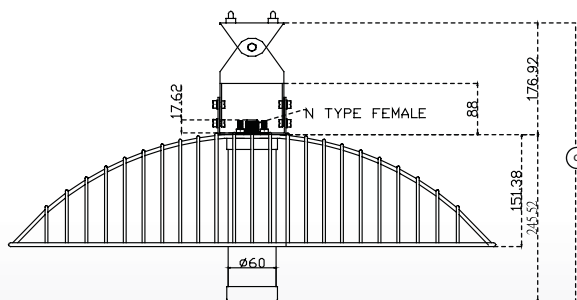
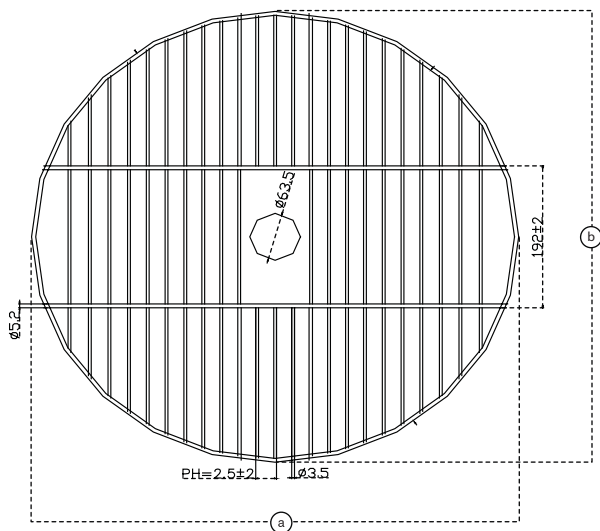


GA24



## DIMENSIONS & INTERFACE

Frequency & Part No.	Dimension axbxc
2.4GHz - GA21	600 x 435 x 250mm
2.4GHz - GA24	900 x 900 x 250mm
5GHz - GA5G24	600 x 435 x 250mm
5GHz - GA5G26	610 x 610 x 250mm
5GHz - GA5G29	900 x 900 x 250mm

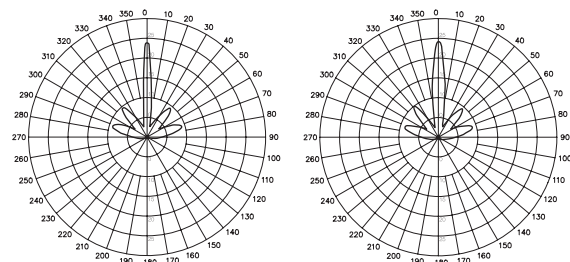


## 5GHz GA PATTERNS

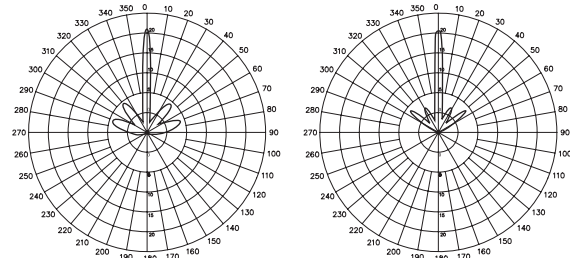
E-Plane Field Patterns

H-Plane Field Patterns

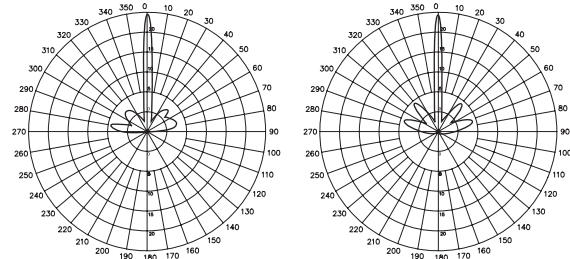
GA5G24



GA5G26

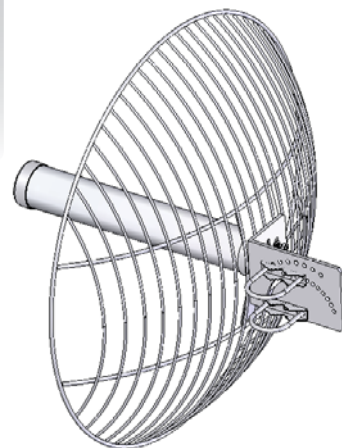


GA5G29



## BRACKET INFORMATION

Bracket Type	Swivel Wall & Pole Mount
Max Pole Diameter	2 inches
Swivel Angel	+/- 90° (H) +/- 40° (V)
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

- Grid Antenna
- Wall and U-bolt Pole Mount Kit
- Antenna Literature

**InscapeData**  
The Leader in Wireless and IP Video Systems

To get other related product information please visit [www.inscapedata.com](http://www.inscapedata.com)

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