

Super Wideband (150-4200MHz) In-Building Panel Antenna



The UASM-V is Fractal Antenna System's ultra low profile wideband panel antenna for in-building Public Safety & DAS applications. Using our proprietary and patented FRACTAL technologies, the UASM-V™ is built with "future-proof" super-wide bandwidth and excellent RF performance in the smallest & lightest form factor available

Applications & Markets

- Public safety indoor DAS
- Cellular indoor DAS
- Neutral host provider systems
- Small cell systems

The Fractal Advantage™

- Ultra-wide bandwidth for essentially **all frequency applications** in **single antenna**
- Design ready for **FirstNet and CBRS**
- Excellent **RF performance** and **super wide bandwidth** that covers **VHF**
- **Smallest form factor** (both **size and weight**) for given performance on the market
- **Made in USA**

Specifications

(for commonly used frequencies)

Frequency (MHz)	150-175*	450-512	617-806	806-960	1350-1435	1670-2200	2200-3500	3500-4200
Peak Gain (dBi)	-4.0	1.3	1.8	2.4	1.9	3.0	2.8	1.9
Max VSWR	2:1	2.5:1	2.5:1	2:1	1.8:1	1.8:1	1.8:1	1.8:1
Avg VSWR	1.5:1	2:1	2:1	1.7:1	1.7:1	1.7:1	1.5:1	1.5:1
Impedance	50 Ω							
Polarization	Linear							
Max Power	20 Watts							
Connector	Single input, single output - Type N-Connector							

*VHF passband tunable to any 7MHz frequency range between 150-175 MHz; wider bandwidth available with <3:1 VSWR

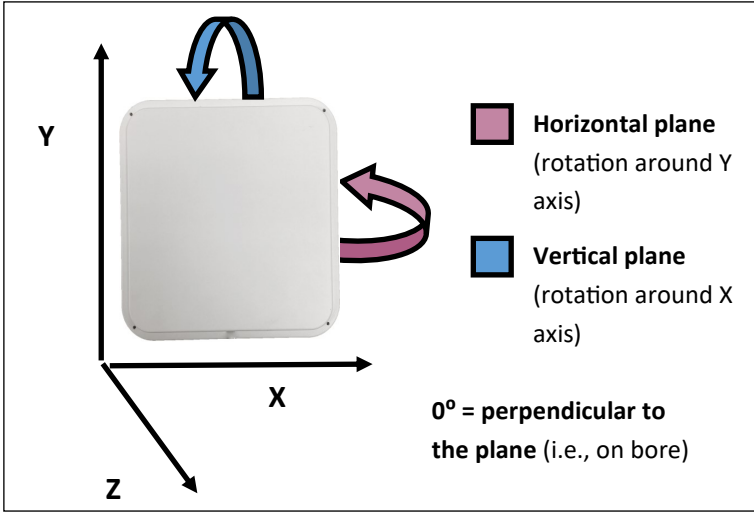
Mechanical Specifications

Unit Number	UASMV00 (w/ type N connector); UASMV01 (w/ 12" pigtail type N connector)
Antenna Weight	1.1 lbs (.5 kg)
Antenna Height	0.75 inches
Base Dimensions	11.6 inches (height) X 11.6 inches (width)
Operating Temp.	-40°F to 130°F
Radome Material	Kydex, UL94 V-0 rating, White color

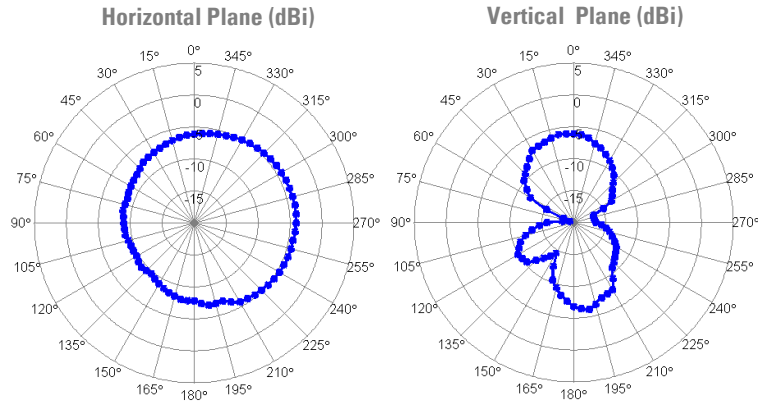
Antenna not designed for mounting on metal; if mounted on metal, performance cannot be guaranteed.

For inquiries email us: sales@fractenna.com

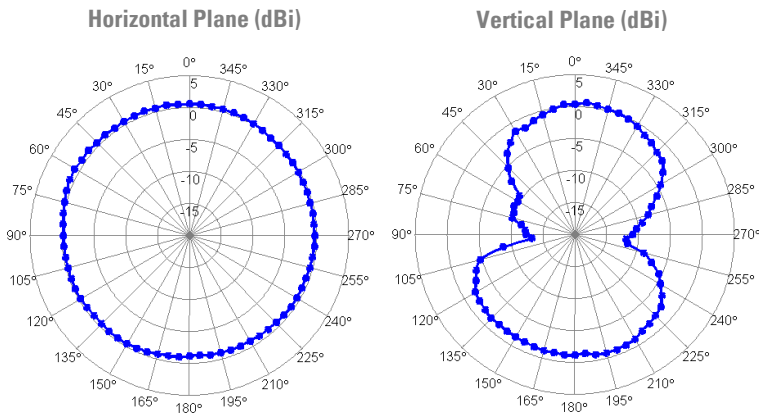
Antenna Power Patterns For Common Frequencies



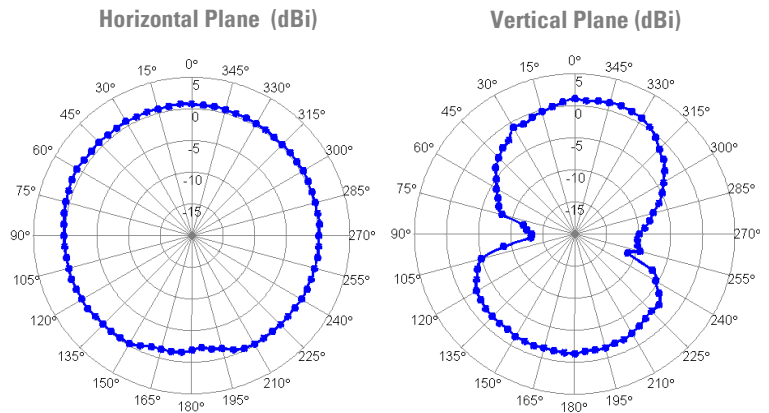
158MHz



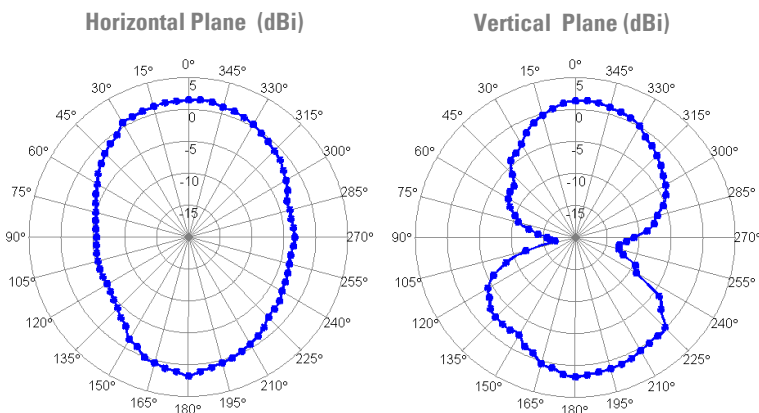
400MHz



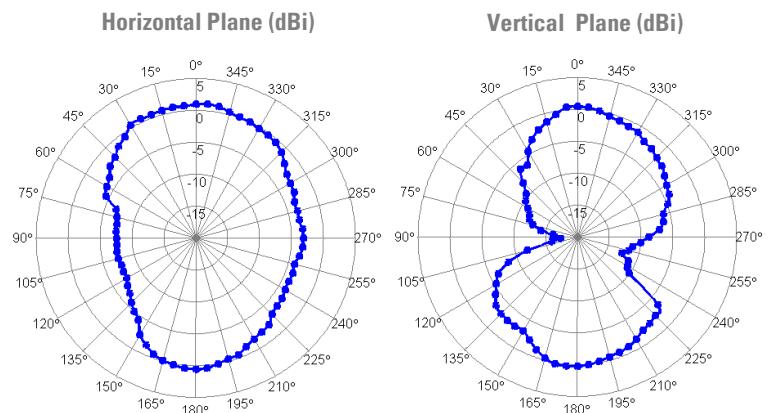
512MHz



698MHz



750MHz



Antenna Power Patterns For Common Frequencies

850MHz

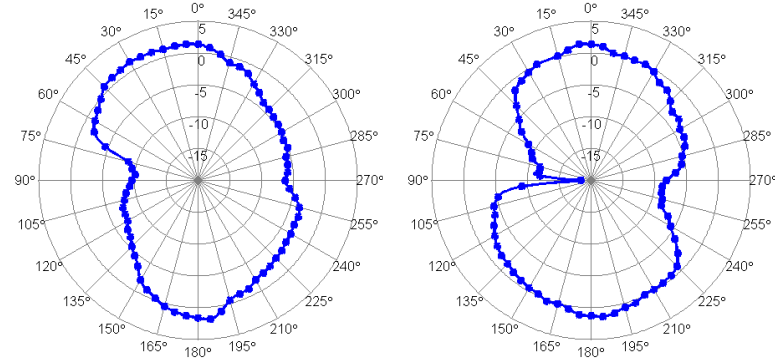
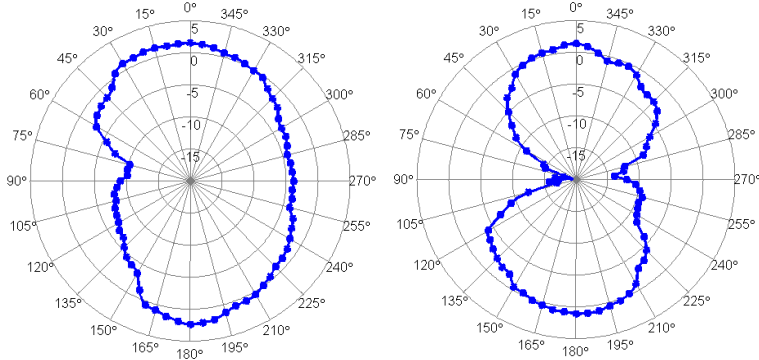
1395MHz

Horizontal Plane (dBi)

Vertical Plane (dBi)

Horizontal Plane (dBi)

Vertical Plane (dBi)



1750MHz

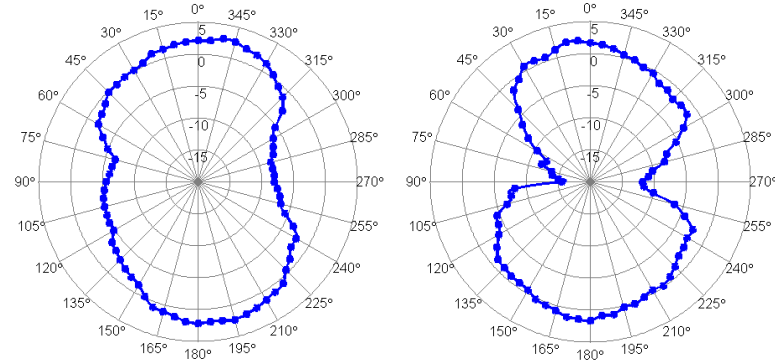
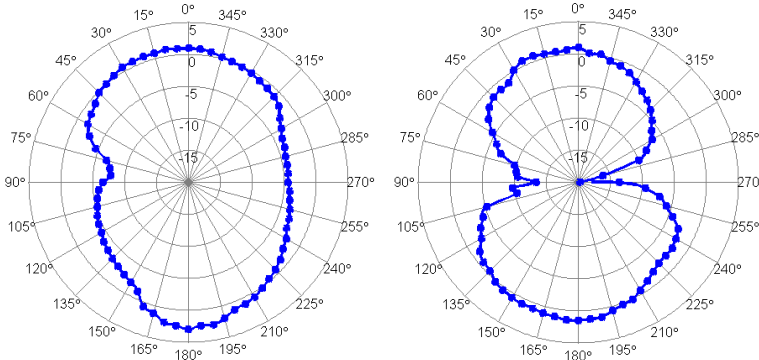
2200MHz

Horizontal Plane (dBi)

Vertical Plane (dBi)

Horizontal Plane (dBi)

Vertical Plane (dBi)



2700MHz

3600MHz

Horizontal Plane (dBi)

Vertical Plane (dBi)

Horizontal Plane (dBi)

Vertical Plane (dBi)

