

## 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							

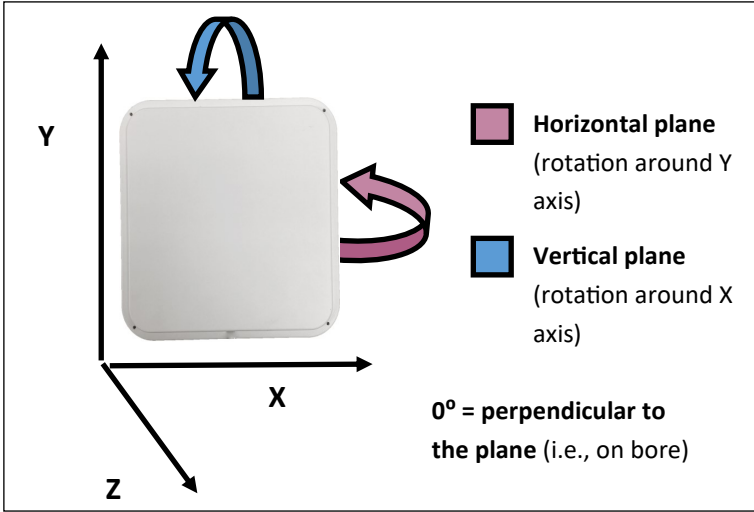
\*VHF passband tunable to any 7MHz frequency range between 150-175 MHz; wider bandwidth available with <3:1 VSWR

### Mechanical Specifications

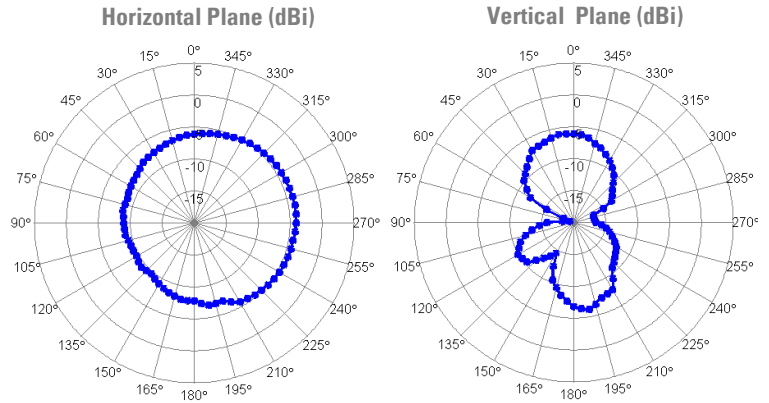
Unit Number	<b>UASMV00</b> (w/ type N connector); <b>UASMV01</b> (w/ 12" pigtail type N connector)
Antenna Weight	1.1 lbs (.5 kg)
Antenna Height	0.75 inches
Base Dimensions	11.6 inches (height) X 11.6 inches (width)
Operating Temp.	-40°F to 130°F
Radome Material	Kydex, UL94 V-0 rating, White color

**For inquiries email us: [sales@fractenna.com](mailto:sales@fractenna.com)**

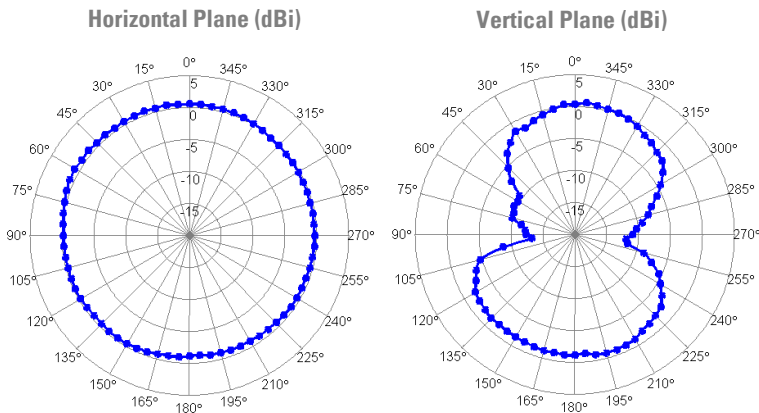
### Antenna Power Patterns For Common Frequencies



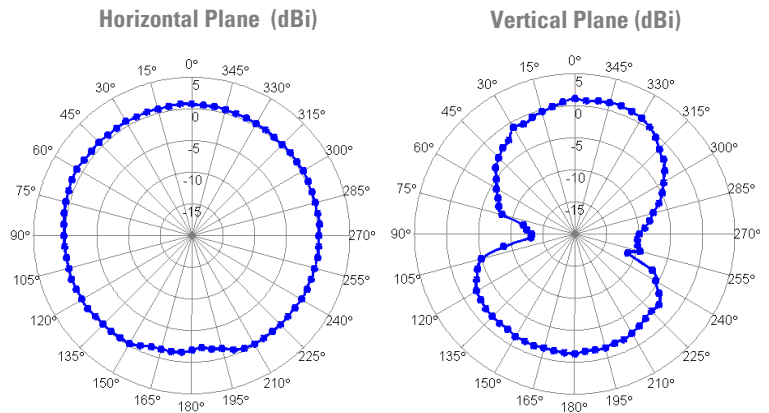
#### 158MHz



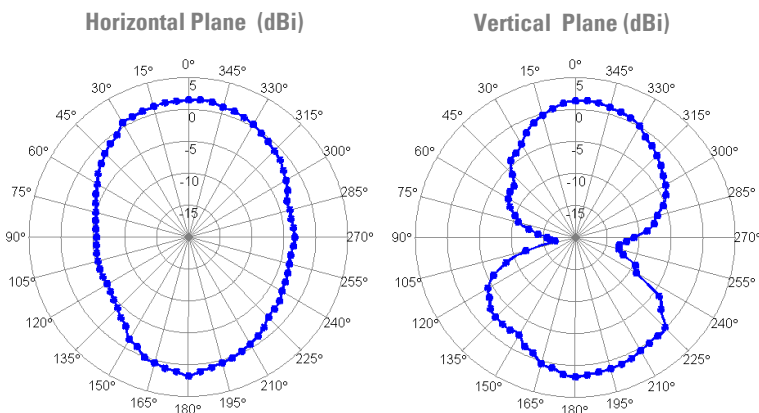
#### 400MHz



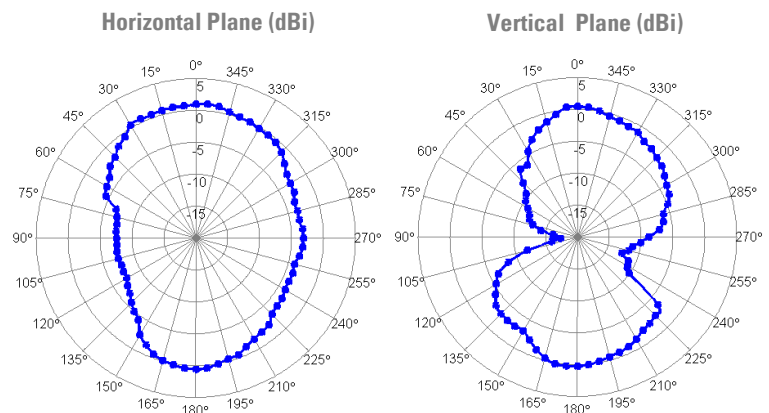
#### 512MHz



#### 698MHz



#### 750MHz



### Antenna Power Patterns For Common Frequencies

#### 850MHz

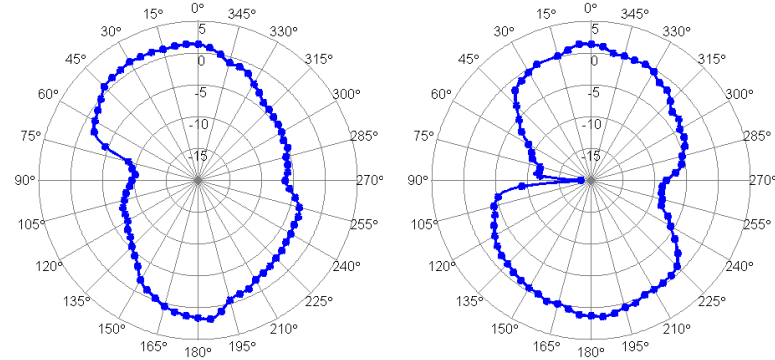
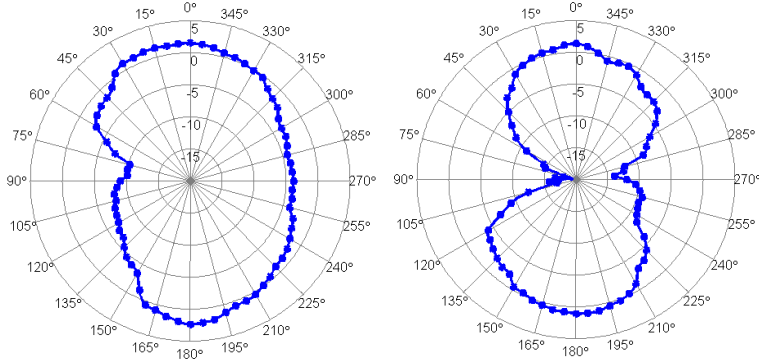
#### 1395MHz

Horizontal Plane (dBi)

Vertical Plane (dBi)

Horizontal Plane (dBi)

Vertical Plane (dBi)



#### 1750MHz

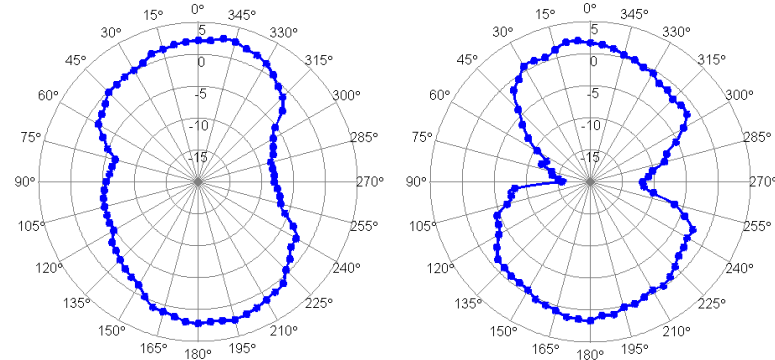
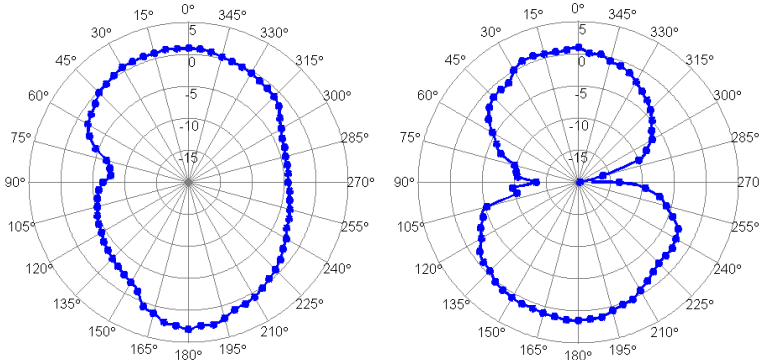
#### 2200MHz

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)

