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)

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>150-175*</th>
<th>450-512</th>
<th>617-806</th>
<th>806-960</th>
<th>1350-1435</th>
<th>1670-2200</th>
<th>2200-3500</th>
<th>3500-4200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Gain (dBi)</td>
<td>-4.0</td>
<td>1.3</td>
<td>1.8</td>
<td>2.4</td>
<td>1.9</td>
<td>3.0</td>
<td>2.8</td>
<td>1.9</td>
</tr>
<tr>
<td>Max VSWR</td>
<td>2:1</td>
<td>2.5:1</td>
<td>2.5:1</td>
<td>2:1</td>
<td>1.8:1</td>
<td>1.8:1</td>
<td>1.8:1</td>
<td>1.8:1</td>
</tr>
<tr>
<td>Avg VSWR</td>
<td>1.5:1</td>
<td>2:1</td>
<td>2:1</td>
<td>1.7:1</td>
<td>1.7:1</td>
<td>1.7:1</td>
<td>1.5:1</td>
<td>1.5:1</td>
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<tr>
<td>Impedance</td>
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<tr>
<td>Polarization</td>
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<td>Max Power</td>
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<tr>
<td>Connector</td>
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</tr>
</tbody>
</table>

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

Mechanical Specifications

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>UASMV00 (w/ type N connector); UASMV01 (w/ 24” pigtail type N connector)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Weight</td>
<td>1.1 lbs (.5 kg)</td>
</tr>
<tr>
<td>Antenna Height</td>
<td>0.75 inches</td>
</tr>
<tr>
<td>Base Dimensions</td>
<td>11.6 inches (height) X 11.6 inches (width)</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40°F to 130°F</td>
</tr>
<tr>
<td>Radome Material</td>
<td>Kydex, UL94 V-0 rating, White color</td>
</tr>
</tbody>
</table>

For inquiries email us: sales@fractenna.com

Applicable Fractal Antenna Systems Patents: 7,345,642; 7,659,862
Address: 213 Burlington Road, Bedford, MA, USA
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All specifications are subject to change at any time without notice
Antenna Power Patterns For Common Frequencies

158MHz

400MHz

512MHz

698MHz

750MHz

Horizontal plane (rotation around Y axis)
Vertical plane (rotation around X axis)

$0^\circ = \text{perpendicular to the plane (i.e., on bore)}$
Antenna Power Patterns For Common Frequencies

850MHz

Horizontal Plane (dBi)  Vertical Plane (dBi)

1395MHz

Horizontal Plane (dBi)  Vertical Plane (dBi)

1750MHz

Horizontal Plane (dBi)  Vertical Plane (dBi)

2200MHz

Horizontal Plane (dBi)  Vertical Plane (dBi)

2700MHz

Horizontal Plane (dBi)  Vertical Plane (dBi)

3600MHz

Horizontal Plane (dBi)  Vertical Plane (dBi)