The UACM-V™ is Fractal Antenna System’s flagship wideband antenna for ceiling mounted in-building Public Safety & DAS applications that require VHF coverage. Using our proprietary and patented FRACTAL technologies, the UACM-V™ is built with “future-proof” ultra-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
- “Future proof” design ready for LTE, FirstNet, indoor 5G, CBRS, and other spectrum rollouts
- 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</th>
<th>150-174*</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>
<th>4200-6000</th>
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</thead>
<tbody>
<tr>
<td>Max Gain</td>
<td>-13.6</td>
<td>2.2</td>
<td>1.4</td>
<td>3.4</td>
<td>7.5</td>
<td>9.2</td>
<td>9.2</td>
<td>10</td>
<td>8.4</td>
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<tr>
<td>Avg Gain</td>
<td>-16</td>
<td>1.2</td>
<td>1</td>
<td>2.5</td>
<td>4.5</td>
<td>5.5</td>
<td>5.5</td>
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<td>6</td>
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<tr>
<td>Avg VSWR</td>
<td>&lt;2:1</td>
<td>&lt;2.5:1</td>
<td>&lt;3:1</td>
<td>&lt;2.5:1</td>
<td>&lt;2:1</td>
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<td>Impedance</td>
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<td>Polarity</td>
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<td>Max Power</td>
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<td>Connector</td>
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<td>Connector Type</td>
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</tbody>
</table>

- Vertical
- Omni (360°)
- 20 Watts

- Single input, single output - Type N-Connector

*VHF passband tunable to any 7MHz frequency range between 150-174 MHz; wider passband possible with VSWR <3:1

Mechanical Specifications

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>UCV00 (w/ type N connector); UCV01 (w/ 18” pigtail type N connector)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Weight</td>
<td>1.22 lbs (.55 kg)</td>
</tr>
<tr>
<td>Antenna Height</td>
<td>4.75 inches</td>
</tr>
<tr>
<td>Antenna Diameter</td>
<td>11.6 inches</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: 7,190,318; 7,701,396; 9,825,368; and Patents Pending

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Address: 213 Burlington Road, Bedford, MA, USA
All specifications are subject to change at any time without notice
Antenna Power Patterns For Common Frequencies

155MHz

400MHz

512MHz

698MHz

750MHz

850MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

Elevation Plane (dBi)

Elevation Plane (dBi)

Elevation Plane (dBi)

Elevation Plane (dBi)
Antenna Power Patterns For Common Frequencies

1395MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

1750MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

2200MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

2700MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

3600MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

5200MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)
Antenna Power Patterns For Common Frequencies

5900MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)