The new “All Band” UHF-TV antenna (470-860 MHz), can be used to broadcast an existing UHF NTSC channel and any future DTV channel. The broadband and high power capabilities make it useful for multi-channel applications.

The VSWR is less than 1.1 from channels 14-69. Using the new offset techniques, low ripple omnidirectional patterns are obtained.

Null fill and beam tilt are available by line length change. A large number of directional patterns are obtainable.

The antenna is designed in doublet pairs to minimize downward radiation and to satisfy OSHA requirements.

The antenna is hot dipped galvanized steel. All the hardware is stainless steel. A fiberglass radome covers the complete antenna. The completely grounded structure protects the antenna from lightning. As an option the entire antenna system can be covered by a cylindrical radome.
## PANEL SPECIFICATIONS

**Channel:** 14 - 69  
**Gain:** 12 dB (15.8 X) @ 650 MHz  
**Impedance:** 50 ohms  
**Power:** 5 kW (average)  
**Polarization:** Horizontal  
**1/2 Power Beamwidth:** ± 32°

### Gain Specifications
- **Gain:** 12 dB (15.8 X) @ 650 MHz
- **VSWR:** 1.1 from 470-800 MHz

### Size Specifications
- **Size:** 3.25x1.5x0.75 ft. (1x0.45x0.23 m.)
- **Weight:** 30 lbs. (13.6 kg.)

### Power Specifications
- **Power:** 5 kW (average)
- **Wind Area:** 4.8 ft.² (0.45 m²)
- **Wind Load:** 140 lbs. (63.5 kg.)

### Polarization Specifications
- **Polarization:** Horizontal

### Connector Specifications
- **Connectors:** 7/8 EIA

### Table

<table>
<thead>
<tr>
<th>NO. OF BAYS</th>
<th>PATTERN</th>
<th>PANELS PER BAY</th>
<th>GAIN (1)(2)</th>
<th>WEIGHT (4)</th>
<th>HEIGHT (2)</th>
<th>CaAc ft² (3)</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>OMNI</td>
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<td>11.2</td>
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<td>14.5</td>
<td>(4.4)</td>
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<td>WIDE</td>
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<td>12.5</td>
<td>397</td>
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<td>4</td>
<td>PEANUT</td>
<td>2</td>
<td>13.9</td>
<td>265</td>
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<tr>
<td>4</td>
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<td>4</td>
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<td>1</td>
<td>16.9</td>
<td>132</td>
<td>14.5</td>
<td>(4.4)</td>
</tr>
</tbody>
</table>

**Notes:**
1. Referred to half wave dipole. Attenuation of connecting cables not taken into account.
2. Gains calculated @ 650 MHz and may vary across the UHF band.
3. CaAc factors are calculated without panel offset. Figures are for guidance only. Contact MCI for figures specific to a particular application.
4. Allow 20 Lbs (9kg) per panel, if ordered with mounting brackets.

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