FLYAWAY ANTENNA
1.2 METERS
ASL 1.2 MPA Ka, Ku, X and C Band

Carbon Fiber Manual Antenna

Product features:

- High strength, light weight, carbon fiber *reflector with a surface accuracy of <v0.3mm RMS.
- Easy assembly and operation, without training or tools.
- Azimuth & elevation angle adjustment realizes fast and fine tuning functions, it rapidly decreases the satellite acquisition period.
- Supports C, X, Ku and Ka-band operation.
- Supports various requirements such as, Broadcast & Media, Emergency & Public Safety, Oil & Gas, etc.
## Antenna System Specification

<table>
<thead>
<tr>
<th>RF Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflector Aperture</td>
<td>1.2m</td>
</tr>
<tr>
<td>Reflector Material</td>
<td>Carbon Fiber</td>
</tr>
<tr>
<td>Reflector Type</td>
<td>Offset</td>
</tr>
<tr>
<td>Tx Frequency (GHz)</td>
<td>13.75~14.5</td>
</tr>
<tr>
<td>Rx Frequency (GHz)</td>
<td>10.75~12.75</td>
</tr>
<tr>
<td>Tx Gain (dBi)</td>
<td>≥42.6+20 lg(f/14.25)</td>
</tr>
<tr>
<td>Rx Gain (dBi)</td>
<td>≥41.8+20 lg(f/12.25)</td>
</tr>
<tr>
<td>Tx VSWR</td>
<td>≤1.3 : 1</td>
</tr>
<tr>
<td>Rx VSWR</td>
<td>≤1.3 : 1</td>
</tr>
<tr>
<td>Tx Isolation</td>
<td>&gt;85dB</td>
</tr>
<tr>
<td>Rx Isolation</td>
<td>&gt;40dB</td>
</tr>
</tbody>
</table>

### Side Lobe
- first side lobe < -14 dB
- 29-25logθ (1° ≤ θ < 20°)
- 32-25logθ (20° ≤ θ < 48°)
- -10 dB (θ ≥48°)

### Power Capacity
- 200 W

### Polarization Feature
- Linear
- Circular

### Feed Interface
- WR-75
- Tx WR28
- Rx WR42

### Cross Polarization
- ≥35 dB (Axis)
- ≥30 dB (1 dB beam width)

### Mechanical Feature

<table>
<thead>
<tr>
<th>Case Size</th>
<th>Case: 620mm * 550mm * 510mm, Weight: 34Kg</th>
</tr>
</thead>
</table>

### Slewing area
- Azimuth: 360°
- Elevation: 10°~90°
- Polarization: ± 95°

### Operational Wind
- 36km/h (10mps) Random
- 65km/h (20mps) With anchored unit

### Temperature
- -40° C to +55° C

### Humidity
- 100%