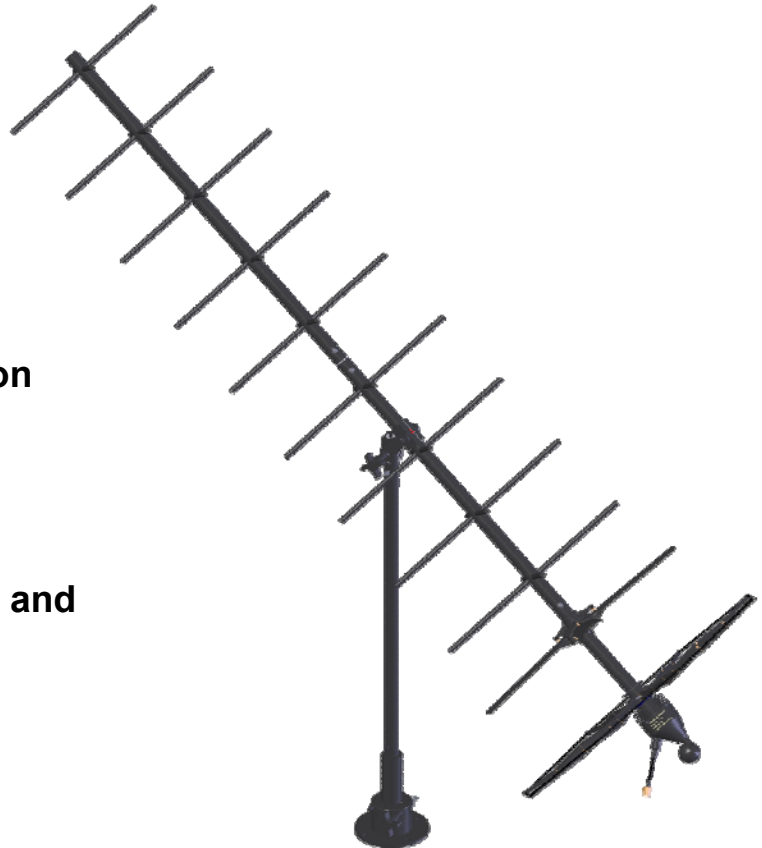


## FEATURES

- **Up to + 14 dBiC Gain**
- **200 Watts CW Power**
- **Right Hand Circular Polarization**
- **Tripod or CECOM Mount**
- **All Weather operation**
- **Includes Carrying Bag, Cables and User-Manual**
- **Quick Set-up and Stowage**



The 20-30-17 is a right hand circularly polarized quick-erect antenna designed for a wide range of special operational requirements. As a free-standing tripod mounted device it provides up to +14 dBiC gain and can be “pointed” in any angle thru a solid 180° to align with the satellite. It can also be hard mounted for vehicular, shelter or fixed shipborne use.

The rugged mechanical design utilizes two “director booms” that plug-in together, one of which attaches to the swivel joint and mounting post.

CAL’s foldable 20-30-101 UHF Satcom antenna module with integral “umbrella” reflector plugs into the 9 element director boom assembly to provide a robust, high gain assembly that can be deployed in under two minutes. The antenna is supplied with carry bags, cables and deployment manual. It is available with the P/N 20-50-55 tripod as P/N 20-30-18.

**Cooper Antennas Ltd for non-USA customers**  
Thames Industrial Estate, Unit K, Fieldhouse Lane,  
Buckinghamshire SL7 1TB, UK  
Tel: +44 (0) 1628 482 360  
Email: [sales@cooperantennas.com](mailto:sales@cooperantennas.com)  
[www.cooperantennas.com](http://www.cooperantennas.com)



**Australian Representatives**  
**ROJONE, PTY LTD.**  
Tel: 02 9829 1555  
E: [sales@rojone.com.au](mailto:sales@rojone.com.au)  
[www.rojone.com.au](http://www.rojone.com.au)

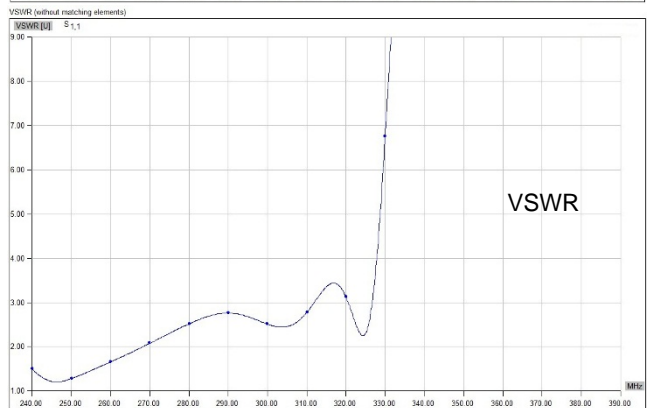
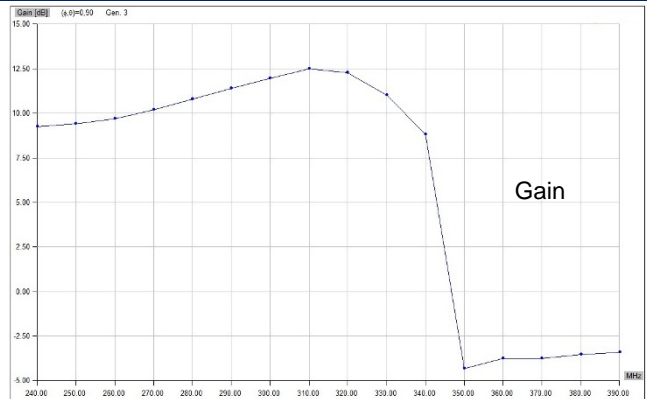
# SPECIFICATIONS

## Cooper Antennas Model 20-30-17

### High Gain UHF SATCOM Base Station Antenna

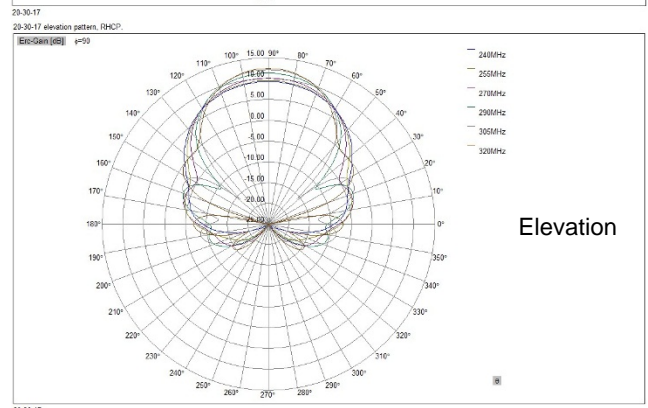
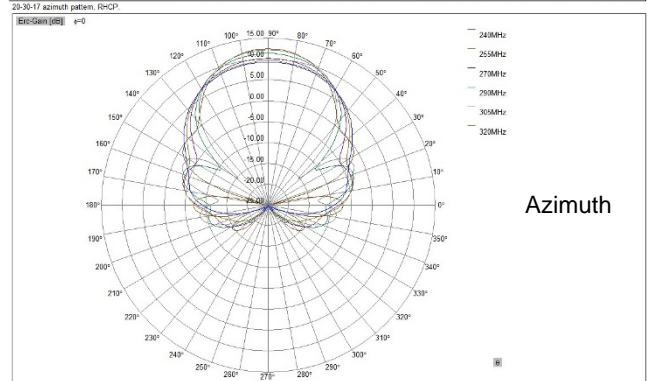
#### ELECTRICAL

|                                    |   |
|------------------------------------|---|
| <b>Frequency Band</b>              | <b>240-318 MHz</b>  |
| <b>VSWR</b>                        | <b>≤ 1.5:1</b>  |
| <b>Gain</b>                        | <b>+13dBiC nominal @<br/>310MHz (additional 1-2 dB with<br/>lightweight extensions)</b> |
| <b>Impedance</b>                   | <b>50 Ohms</b>  |
| <b>Power:</b>                      | <b>200 Watts CW</b>   |
| <b>Polarization</b>                | <b>Right Hand Circular</b>  |
| <b>Connector</b>                   | <b>BNC Male</b>   |
| <b>Operational<br/>Temperature</b> | <b>-40°C to +90°C</b>   |
| <b>RF Cable</b>                    | <b>2 each 12 ft (3.6mm) long</b>  |
| <b>RF Cable Connectors</b>         | <b>BNC Male &amp; Female</b>  |



#### MECHANICAL

|                             |  |
|-----------------------------|--|
| <b>Antenna Beam Length</b>  | <b>57 inches (1448mm)</b>  |
| <b>Element Diameter</b>     |  |
| Upper (Petals)              | <b>18.5 inches (470mm)</b>   |
| Lower (Reflector)           | <b>24 inches (610mm)</b>   |
| <b>Weight</b>               | <b>12 lbs (5.4kg) excluding<br/>bags, cables and light-<br/>weight directors</b> |
| <b>Stowed Size Diameter</b> | <b>15 inches (381mm)</b>   |
| <b>Stowed Size Length</b>   | <b>36 inches (915mm)</b>   |



#### FINISH

**Black anodised / lustreless black epoxy paint and black composite material**

**Other finish options are available. Please specify finish required when ordering.**

**Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change. Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.**