



**20-30-05**  
**UHF SATCOM on-the-move**  
**Antenna**  
**225 to 400 MHz**

## FEATURES

- **Lightweight**
- **19 inches by 5 inches stowed size**
- **Includes Carrying Bag, Cables and Manual**
- **Quick Set-up and Stowage**
- **Tripod, Hand-Held or Magnetic Mount Operation**
- **Low Visibility**
- **Robust Construction**
- **All Weather operation**
- **+ 6.5 dBiC Gain**
- **200 Watts CW Power**
- **Right Hand Circular Polarization**



The 20-30-05 is a right hand circularly polarized rapid-deployment antenna designed for a range of special operational requirements. As a free standing tripod mounted device, it provides +6.5 dBiC gain and can be “pointed” in any angle through a solid 180° to align with the satellite. It can also be detached from the tripod to allow hand held operation by grasping the ball-joint at the antenna base-mount. For vehicular or fixed ship borne use, the tripod is replaced by a snap-in ball jointed magnetic mount to enable the antenna to be instantly fixed to a ferrous roof or other surface.

In all cases the integral reflector is pushed down and locked in position. When tripod mounted or hand held, full 180° solid angle directional pointing is possible. When magnetically mounted, the antenna can be directed from zenith (90°) down to 45° elevation. The inherent beam-width of the antenna then maintains gain above 0° dBiC throughout 180° solid angle.

Deployment time is less then 30 seconds and total weight, including carry bag is approx. 7 lbs.

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# SPECIFICATIONS

## Cooper Antennas Model 20-30-05 UHF SATCOM on-the-move Antenna

### ELECTRICAL

Frequency	225 - 400MHz
Gain	+6.5 dBiC
VSWR	≤ 1.5:1
Impedance	50 Ohms
Power	200 Watts CW
Polarization	Right Hand Circular
Antenna RF Connector	BNC Female
Operational Temperature	-25°C to +90°C
RF Cable	1 each 12 feet (3.6m) long
RF Cable Connector	BNC Male and BNC Female

### MECHANICAL

Height (excluding tripod and ball mount, base housing)	11 inches (279mm)
Element Diameter	
Upper (Petals)	18.5 inches (470mm)
Lower (Reflector)	24 inches (609mm)
Total Height	26.5 inches (673mm) on tripod 18 inches (457mm) on mag

### STOWED SIZE

Length	19 inches (483mm)
Weight	7 lbs (3.18kg) approx

### FINISH

Black anodised/lusterless black Urethane paint and black composite material

### OPTIONAL EXTRA

To increase zenith gain to approx +11 dBiC (at mid band) two extensions, P/N 20004 (to be separately ordered) can be plugged into antenna head cap. This configuration is suitable for fixed tripod or hand held use only, not for moving vehicles.

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.