



Corner Reflector for  
11-12 dBi Models

## Directional Corner Reflector 1.8/1.9 GHz GSM

- 11 & 12 dBi models for 1.8 - 1.9 GHz networks
- Small aperture; minimizes wind loading
- Split balun feed provides superior bandwidth & gain performance
- Can be mounted vertically or horizontally

Mobile Mark's high frequency Corner Reflector antennas are useful for applications such as surveillance work, 1.8/1.9 GHz GSM, and other high frequency applications.

Its unique design features allow the antenna to overcome many of the problems normally associated with higher frequency systems.

These corner reflectors use a half-wavelength element configuration. A unique balun fed design provides high efficiency radiation without skewing of the radiation pattern. The resulting performance provides excellent bandwidth, gain and match over the frequency range.

The connector mechanism exits at the rear of the antenna, allowing easy installation. The mounting bracket attached to antenna allows both horizontal and vertical mounting of the antenna.

Each reflector panel measures 7" x 7" (178 mm x 178 mm), providing very low aperture and wind loading.

The reflectors are made of aluminum, and weather protected with a tough powder-coat finish. The radiating elements are weather pro-

tected within an ASA radome. This maintains integrity of the antenna without sacrificing looks or wind loading.

Mounting hardware consists of heavy duty U-Bolts for mounting to poles up to 2.5 inches (63 mm) in diameter.

Custom cable assemblies are available from Mobile Mark to facilitate the connection from the antenna to the modem.

| Model #                                                                                            | Gain   | Frequency          |
|----------------------------------------------------------------------------------------------------|--------|--------------------|
| SCR11-1800-WHT                                                                                     | 11 dBi | 1700-1900 MHz, DCS |
| SCR12-1900-WHT                                                                                     | 12 dBi | 1800-2000 MHz, PCS |
| <u>Color options available for above models</u><br>WHT-White or BLK-Black                          |        |                    |
| Other special configurations are available upon request, please contact your sales representative. |        |                    |

### Specifications

|                       |                                              |
|-----------------------|----------------------------------------------|
| Frequency:            | See above                                    |
| Gain:                 | See above                                    |
| VSWR:                 | 2:1 max over range                           |
| Impedance:            | 50 Ohm nominal                               |
| Maximum Power:        | 100 Watts                                    |
| SCR11 Beamwidth:      | 50° El, 39° Az                               |
| SCR12 Beamwidth:      | 48° El, 38° Az                               |
| Front-to-Back ratio:  | 22 dB or better                              |
| Lightning Protection: | DC grounded, external protection recommended |

Max Wind Velocity: 125+ mph (200 kph)

Operating Temp: -40° to +85° C

Weight: 2 lbs (1 kg)

Aperture: 7" x 10.5" (178mm x 266mm)

Panel Size: 7" x 7" ea (178mm x 178mm)

Material: Powder-coated aluminum, ASA plastic radome

Pole Mounting: Hardware included

Mounting Dimension: Mounts up to 2.5" (63 mm) diameter mast

Connector: N Jack (Female), attached at rear of antenna

Shock & Vibration: EN 300 019-2-4, IEC 60068