



## TRI-BAND SURFACE MOUNT COMBO ANTENNA P/N 60880

### INSTALLATION GUIDELINES

This Tri-Band surface mount combo antenna is ground plane dependent; therefore it needs to be mounted on metal surfaces or on fiberglass using the appropriate ground plane\*

The antenna has two cables, one for the wireless frequency and the other for GPS. Both cables have a length of 15 feet and separate connectors as follows:

- The cable for the wireless communication (RG-58) includes a TNC-plug connector already attached to the cable
- The GPS antenna cable (RG-174) includes a SMA connector

### CHOOSING A LOCATION FOR THE COMBO ANTENNA

When choosing a location for the antenna, make sure that the antenna:

- Will be mounted on a flat surface metal surface (i.e. Roof)
- Surface must be VERY clean to ensure proper sealing. All dust that settles on it must be removed
- Antenna must have an unobstructed view of the sky
- If the antenna must be located in the vicinity of other antennas (radio, etc), locate the Tri-band combo antenna at least 46cm (approximately 18 in.) away from the other antennas.

**Note.** - Antenna cannot be located directly above or beside any device (i.e. 2-Way Radio, CB Radio mounted in headliner console) that might cause frequency interference.

- Avoid areas of high vibration (i.e. engine hoods)
- Choose a location with access both above and below the antenna-mounting surface. This access is required to secure the antenna mounting and for routing the antenna cable.
- Make sure the antenna cables will reach the GPS receiver from the antenna mounting location.

### MOUNTING THE COMBO ANTENNA

- Drill a 3/4" hole at the mounting location

**CAUTION :** Before drilling the mounting hole, check the metal thickness at the mounting location. The bulkhead mount on the antenna can be attached to metal surfaces with a thickness of 1/4" or less.

- Remove the large nut from the bottom of the antenna
- Feed the coaxial cables through the hole,
- Seat the antenna on the surface and secure it using the large nut.

**Note.** - The attached gasket on the base of the antenna provides a seal to prevent moisture from entering the vehicle

- The nut must be tight in order to properly seal the gasket. Tighten the nut with a wrench.

**Note.** - Manufacturer specifies 3-4 or 4-5 ft/lbs on nut. Too little won't seal, too much will distort base causing eventual failure

- Route the cable to the GPS receiver location
- Connect the cable to the appropriate antenna connectors on the receiver with the appropriate adapter.

\* For fiberglass surfaces Trimble has available a 6" diameter Ground Plane (p/n 55399). This item must be order separately when using this antenna configuration