

# SuperTennas

Mobile, Portable & Station

from Falcon Direct, Inc.

Superior performance with up to 25% more efficiency than comparable antennas!

Things are changing in the antenna industry. Acquisitions, mergers, off shore production, and the demise of family owned companies led us to the conclusion that something was missing.

We decided that we could never be the cheapest, but we could be the best! So, we aligned ourselves with the best of the best. That's why we are able to offer an unprecedented TEN YEAR warranty on every antenna and mount that we sell!

And, we guarantee our antennas will outperform whatever antenna you may now be using or your money back! Our low loss mobile mount kits provide up to 25% more efficiency than low priced economy mount kits. You're going to like our *SuperTennas*!



**Call us for pricing on any antenna or mount kit.  
Condensed price list is shown below!**

## E-Z Price Guide

- Mobile mount kit, roof top, NMO mount with low loss cable - \$28
- Accessory mounts – Mirror, hood, or trunk - \$15. Magnet - \$25
- VHF or UHF unity gain mobile antenna - \$36
- 3 dB gain VHF or UHF mobile antenna - \$44
- 3 dB gain 700/900 MHz mobile antenna - \$32
- Flex portable antenna , standard or mini, with connector - \$20
- Base Station antenna, 7 dBd gain VHF or 6 dBd gain UHF - \$295
- Base station antenna, 5.8 dB gain VHF or 10 dB gain UHF - \$1.095

**Call us 24/7 at 800-489-2611**

VHF, UHF, 700/800 MHz Antennas & Mounts

# The ABC's of most problems.....

relating to the operation of 2-way radios are fairly simple and predictable. Rarely does a 2-way radio fail because of an electrical problem (Unless it is connected to power incorrectly, or the vehicle is jump started with the radio on, or for fixed stations – lightning or the three S's of line voltage problems – sags, spikes, and surges! So the question is, *Just exactly what ARE these most common problems?* The “A” is for ANTENNAS!

## Antennas, Mobile

In particular mobile antenna failure is caused by antennas that are improperly tuned (generally by cutting), improperly grounded, or poor construction. To cut cost, most manufacturers use the cheapest cable possible (typically RG-58/U) with minimal shielding and high signal loss. Rather than using brass fittings and copper center conductors, they will use less expensive aluminum that has poor conductivity and short operating life. After all, there is a far larger market for REPLACEMENT antennas and mount kits than there is for original equipment.

## Antennas, Portable

Most portable antennas consist of a piece of wire (copper or aluminum depending on price and quality), a sheath to cover the wire (Most often PVC or rubber). Some are short (3.5 inches) or longer (7 inches) for VHF or UHF. Some are super short, even built in to transceiver. These antennas normally use ferrite rods, tuned circuits, or a thick copper wire. All portable antennas have to connect to the radio and to the outside world. Connectors can be cheap or they can be expensive. Construction can be precision manufactured and quality control tested or put together than unskilled foreign labor. See last sentence above for the reason a manufacturer may choose to offer a cheap antenna, rather than a good antenna.

## Antennas, Station

The cost of a station antenna is based on materials, construction, and gain. A zero gain antenna (also known as “Unity” gain) is generally the smallest and least expensive. The same is true of mobile antennas. A 3 dB gain antenna is larger and has the ability to double transmit and receive efficiency. A 6 dB gain antenna quadruples efficiency, or as we call it in the communications industry – Effective Radiated Power or ERP). A 10 dB gain antenna increases efficiency by a factor of TEN times! The cost of mounting an antenna and the associated transmission line can easily match the cost of the antenna, so it is important to choose not only the best quality antenna, but cable as well. The simple rule in selecting cable is similar to the selection of a mobile antenna. You want the best quality components (think copper!), and the largest affordable diameter (i.e. a ½ inch cable has less signal loss than a ¼ inch cable and a 7/8” inch cable has even less loss). If the cable part number starts with an RG prefix, it is cheap. A prefix of LMR is better, and a prefix of LDF is generally best.

We choose to sell only the best antennas. The logic being that spending a little more to improve performance and avoid replacement every few years makes good sense. That is why we are the only company offering a TEN YEAR warranty on our antennas, mount kits, and cable assemblies.

By the way – the other two most common items to fail are B (Batteries) and C (Connectors). We've already discussed connectors. If you would like to know more about batteries, please visit [www.info4u.us/batteries.pdf](http://www.info4u.us/batteries.pdf) or just give us a call at 800.489.2611.

