



# They say that one picture is worth a thousand words..

The picture above is a good example. We can conclude from a review of this picture that (a) we prefer girls for models, (b) the one doing the modeling is our own Candice Sutterlin who seems to be holding some kind of radio device. We make that conclusion based on the fact that she is holding a box with a hand microphone, and (c) the radio must not be very heavy as the dainty little lady is holding it in one hand. So the question is, *what is it and why should you care?*

To answer, let us first tell you what Candice has in hand. It is a 2-way radio repeater complete with internal duplexer (a gadget that allows a repeater to use a single antenna). The duplexer terminates into an SMA connector, a very efficient low loss transmission line connector. Technically, it is called a TR-50 and it can be used as a direct replacement for any VHF or UHF repeater station.

Any owner of a repeater station knows that the typical cost of a repeater can range from two to ten thousand dollars (excluding the associated antenna system). Most repeaters require an external duplexer (the duplexer is internal in the TR-50) and require a separate AC power supply. The TR-50 can operate directly from either -12 volts DC or 110 volts AC with power cords provided for both operating modes.

Incredibly, the TR-50 is just \$995 complete including your choice of an adapter cable with a Type N, UHF, or Mini-UHF connector. So why do you need an adapter cable? The reason is that if your main repeater fails, you simply disconnect the antenna cable and use the TR-50 as a spare until your main repeater can be repaired or replaced. In most cases, the low cost TR-50 will perform comparably to your high priced main repeater. Product specifications are available at [www.info4u.us/TR-50.pdf](http://www.info4u.us/TR-50.pdf)

So what's our point? Our point is that the TR-50 can save you a lot of grief when your main repeater goes down. We recall one public safety user who was out of service for six months awaiting repair of a lightning damaged station. By the way, the TR-50 comes with its own lightning protection, both AC and coaxial!

The entire package weighs in at less than NINE POUNDS! That's why Candice has no trouble holding the TR-50 with one hand! You might even want to consider the TR-50 as your main repeater for new installations. We can help you get an FCC license and select an efficient antenna system. Just give us a call anytime, 24/7 at 800-489-2611. We'll take it from there!

