



## WIRELESS SIGNAL STRENGTH AND ANTENNA GUIDE

Understanding the basics of wireless antennas and the wireless frequency can help to improve your game's signal strength and reliability.

In a perfect world the tower antenna and the machine's antenna are in perfect phase with one another, and close enough in proximity that the strength is very good. In the real world the environment will change the phase of the signal and reduce its strength. Buildings, walls, metal or concrete, and even cars outside can affect the wireless signal. Basically, everything between the tower and the game will have some sort of affect.

The Antenna in Golden Tee LIVE is designed to "see" the wireless signal equally from any direction. However, because objects in the machine's surroundings can affect the signal, the antenna may accept a better signal if it is positioned a few inches from where it originally was, or possibly even rotated 180 degrees. There is no exact science to finding the optimal signal, so some locations may require some testing to get the best possible results.

When testing the wireless signal strength, go to *ITNet Settings/Communication Settings* in the System Setup menus. Use tape or Velcro to temporarily position the antenna into a new location, and let it settle for at least 30 seconds. Note the antenna's current position, and signal strength reading on the screen. Then try another location or orientation and note the results. The best location for the antenna can usually be found using this procedure. Once you find the optimal spot, affix the antenna using the supplied mounting bracket so it stays in place. Remember that fewer obstacles between the antenna and the tower is your goal, and often that means that height is not always better.

A signal reading of 20 is good as long as there are not large or noticeable shifts in the signal strength. A signal reading of 25 to 50 is very good. A great signal is anything above 50. Each location is different, and these characteristics can often change if the surroundings change. It is a very good idea to check the signal strength test with every collection, to see if you are continuing to get the optimal signal position.

An Antenna signal booster can easily be installed if good signal strength can't be obtained. The Incredible Technologies part number is 900100510, "Booster Kit for Antenna". Call Technical Support for more information.