



Broadlink Research, Inc.

Personal Smart Antenna PSA-1900

Personal Smart Antenna Installation Guide

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class [B] digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

Overview

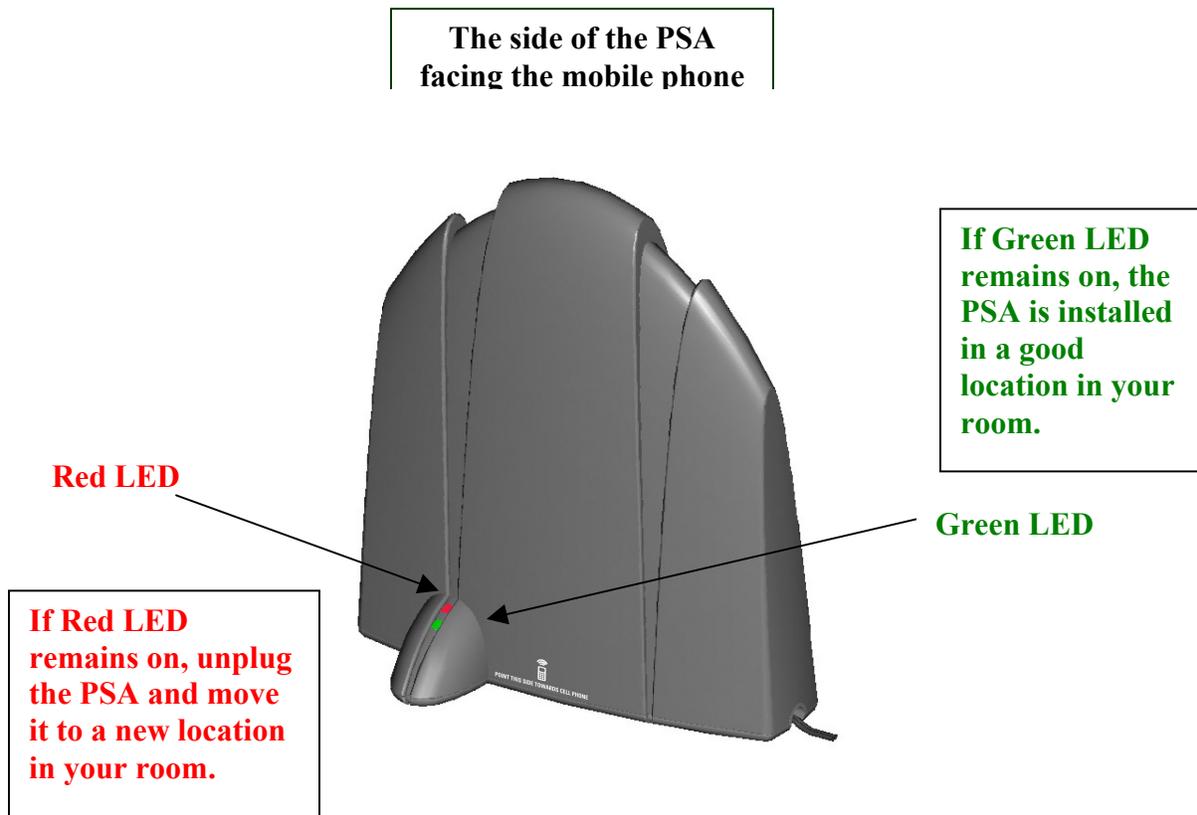
The Personal Smart Antenna (PSA) is a totally wireless device that will automatically adjust to the environment it is being installed. The device will provide the following feedback to help with an optimal installation.

Installation

Remove the PSA from the box, connect the power supply to the PSA, and then plug in the power supply to a power outlet. The PSA will display both the red and green light for about 5 seconds as the device learns the environment.

Optimal Location

Please place the PSA on a desk top, table top, or shelf. The LED lights should be facing toward you and where you normally use your mobile phone (your desk chair). If the red LED light is displayed after power up (beyond the 5 second startup period), unplug the power supply to reset the PSA, and move the PSA to a new location. The red LED is indicating a poor location for the PSA. Plug in the PSA and try the new location. Continue until the green light on the PSA remains on.



WARNING: While this device is in operation, a separation distance of at least 20 centimeters (8 inches) must be maintained between the radiating antenna and any person exposed to the transmitter in order to meet the FCC RF exposure guidelines. No change to the antenna or device is permitted. Doing so may result in the installed system exceeding RF exposure requirements. This device must not be co-located or operating in conjunction with any other antenna or radio transmitter. Installers and end users must follow the installation instructions provided in this guide.



Electrical Specifications:

Operating frequency:

Up link (Mobile to Base) 1850-1910 MHz
Down link (Base to Mobile) 1930-1990 MHz

Nominal passband gain : 26.6 dB. Maximum 45dB, software programmable

Nominal bandwidth: 60 MHz for uplink and 60 MHz for downlink

Rated mean output power: 22.7 dBm

Input and output impedances: 50 ohms

Notice: The Manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.