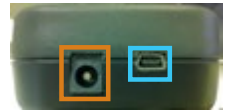# SQUID-4G ™

Quick Start User's Guide

Before You Start - Completely charge up your Squid-4G using the supplied AC/DC transformer. Note the mini-USB port for later use with a PC. Be sure to also securely connect all antennas to the Squid-4G for maximum sensitivity.

Starting Up - Power up Squid-4G by pressing the pushbutton trackball or center keypad black button (model dependent) on the front of the unit. You should notice a horizontal startup bar for approximately 20 seconds. After startup, Squid-4G scans all nearby cellular networks followed by the acquisition of base station names and finally GPS satellite lock. Time scan usually takes between 1 to 2 minutes total for all networks.
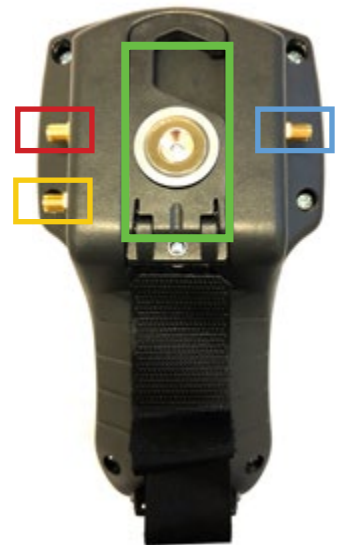
Connecting Antenna - Be sure to connect all antennas before making scanning for any carriers. The antenna inputs are hardwired to their respective bands. Looking at thr rear of the unit:

Top left SMA connection is for CDMA carriers like Verizon

Right SMA connection is for UMTS/GSM carriers like AT&T and T-Mobile

Bottom left connection is only for GPS connection (active GPS antenna only).

Magnetic Hook - Squid-4G contains a fold-out hook that easily slips onto a utlity belt or low hanging wire. The embedded magnet also allows Squid-4G to be mounted temporarily to metal surfaces.

4G LTE base stations are listed according to their wireless carriers. Not all carriers are supported. Some carriers sharing bandwidth with other carriers will not be displayed. Consult the FCC's commercial 4G allocation for your area for details.

4G LTE	FRQ MHZ	RSRP
Verizon	751.0	-67
AT&T	739.0	-56
T-Mobile	2138.6	-59
AT&T	1935.0	-88

DOWN ARROW · UP ARROW · SORT BY RSSI · DISPLAY REFRESH · ANTENNA INFO · GPS INFO · BATTERY · POWER OFF

FRQ MHz lists the neareast wireless carrier frequencies detected. Not all bands are supported so ask your BVS sales agent.

RSRP values are listed as they are scanned. Use the RE-LIST SORT BY RSSI function to place the strongest base stations at the top.

DOWN ARROW - Use this arrow to scroll down when the list is greater than 4.

UP ARROW - Use this arrow to scroll up when the list is greater than 4.

REFRESH DISPLAY- Use this to update info on the screen and remove or add items that are not current.

SORT BY RSRP - This icon lists RSRP so that the strongest RSRP values appear at the top (for instance, -55 dBm is stronger than -93 dBm)

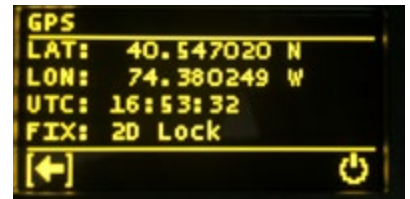When you first power up the Squid-4G, the unit takes to find all nearby networks.

Finding Networks.

PRODUCT INFORMATION - This screen displays which antenna (left or right) is receiving which wireless standard.

GPS - Displays navigation information including latitude, longitude, UTC and fix. The GPS antenna must be connected to the GPS connector on the top of the unit in order to achieve GPS lock. If your unit does not contain a Sprint module, you must use an active antenna to achieve GPS lock.
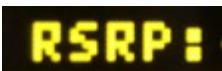
BATTERY - This screen displays battery power left (percentage) of the Squid's internal batteries. Typical runtime is approximately 8 hours.

POWER OFF - Select this icon to turn off the Squid.

BASE STATION INFORMATION - This screen allows the user to see many details about the currently selected base station.

CARRIER

MCC MNC IDENTIFIER

CELLULAR IDENTIFIER

REFERENCED SIGNAL RECEIVED QUALITY IN dB

RECEIVED SIGNAL STRENGTH INDICATOR IN dBm

RECEIVED SIGNAL RECEIVED POWER IN dBm

BACK ARROW   POWER OFF

RSRP DIRECTION FINDING - This screen is most useful for antenna alignment when the operator may be out of arm's reach to the unit while holding or repositioning an antenna. Notice the PEAK HOLD at the end of the horizontal dBm. That will remain until a higher dBm is detected.

OPTIONAL DIRECTION FINDING ANTENNA - This option includes a DF antenna, bracket and antenna cable. Note the assembly in the photo. Attach antenna before powering up the Squid-PRO. Recommended procedure for DF antenna use is to begin by first attaching omni-directional antenna(s) to acquire local base stations. After all local carriers have been detected, swap out omni for direction finding antenna. Be sure to choose the appropriate antenna connection (left connector for AT&T or T-Mobile or right connector for Verizon).