

# SPOT

The most advanced in wireless field measurement equipment.



SPOT is the Smart Portable Optimization Tool. The hand-held type drive test tool [SPOT] is highly suitable for measurement both indoor & outdoor with your on-hand smart phone.

SPOT provides you to show the real-time measurement, displays all RF and signaling data.

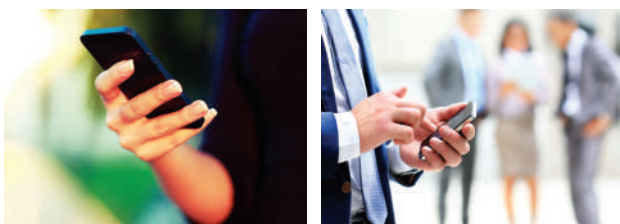
Log files are compatibility with Actix, WAS, Netimizer and Link Master tools for post-processing.

## Features

- Enhanced mobility with smart phone Application using DM solution.
  - Outdoor, in-building, subway, park, mountain, etc. where is difficult to use laptop.
- LTE(CA), WCDMA/HSPA, CDMA/EVDO, GSM/GPRS and Wi-Fi measurement.
- Handy in-building measurement.
  - Real time route drawing supported during measurement for in-building test
- Remote call test control and auto log file uploading to the server.
  - Set the call test plan in WAS(Web Analysis Server) and auto call testing.
- Easy analysis and reporting functions
  - Immediately analysis and reporting after measurement.

## Functions

- Network protocol support. (LTE (CA), WCDMA, CDMA/EV-D0, GSM/GPRS, Wi-Fi)
- Real time RF monitoring. (Graph, Table, Map trace..)
- Device support : Android smart phone (Samsung, LGE, Sony..)
- Outdoor, in-building and subway call testing.
- Auto call test function. (Voice (VoLTE), FTP, HTTP, VOD, Ping)
- Layer3 (RRC) message monitoring and recording
- Data packet message monitoring and recording
- Map support (Google / Baidu)
- Map drawing and image loading (In-building and subway)
- Auto report and log file replay function
- Support analysis tool. (Pharos DMA, WAS(Web Analyzer Server), Actix)



### Support Parameters

#### • LTE

- LTE, LTE-A, CA support.
- RSRP, RSSI, RSRQ, SINR, TX power.
- EARFCN, PCI, Bandwidth, Frequency, eNB ID, ECI, Local Cell ID, TAC
- MNC, MCC, IP address, EMM state, EMM sub state
- AGC mode, Duplex mode, RACH type, RACH mode
- LTE-TDD parameter - Frame assignment, Frame structure pattern
- CQI, BLER, RB, RI, MSC, Modulation,
- Throughput, DL/UL channel info.
- Timing Adv., Neighbor cell information
- RRC (Layer 3) Message.

#### • WCDMA

- RSCP, RSSI, Ec/Io, TX power
- UARFCN, PSC, RRC State, Cell ID, LAC, RAC
- MCC, MNC, IP address, System mode.
- AGC Mode, DRX, BLER, Max TX FER, Throughput
- RRC (Layer 3) message.

#### • CDMA

- RSSI, Ec/Io, TX Power, TX Adj, SINR,
- Center Freq, PN, Freq, Band class,
- Access, Session, Connect, Idle, Route, HDR hybrid
- DRC index, PER, BS ID, SID, NID, System mode, PN list(CDMA, EVDO)
- CAI message.

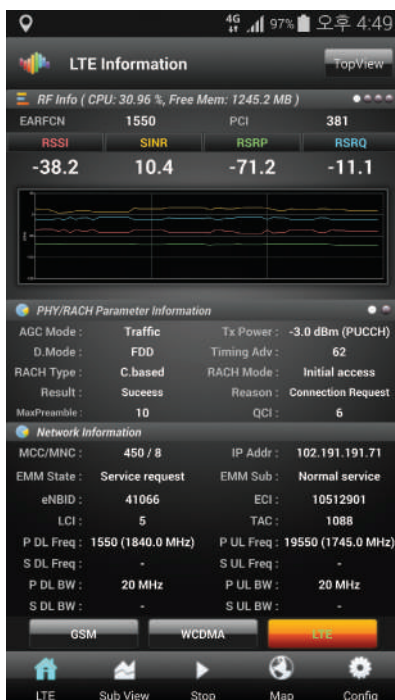
#### • GSM

- Rx, SNR, C1, C2, BCCH ARFCN, PBCCH ARFCN
- Channel state, FN, BSIC, C31, C32
- MCC, MNC, Cell ID, IP address, LAC, Band
- Neighbor cell, Surround cell info. GPRS info.
- RRC (Layer 3) message.

#### • Common

- Throughput (DL/UL information).
- Call test setup time. (Voice, FTP, HTTP, VOD)
- Ping round trip time.

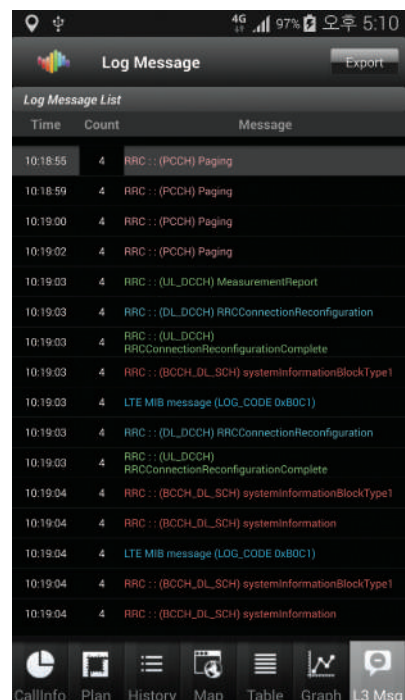
### SPOT View



Main View



Map View



RRC View