

YELLOWFIN™-LTE

4G LTE ANALYZER



YELLOWFIN™ LTE analyzer is shown with optional Direction Finding Antenna installed.

YELLOWFIN™ LTE analyzer is the world's first truly portable calibrated, demodulating LTE test receiver. This handheld unit utilizes the Samsung Q1 Ultra tablet UMPC as an interface in conjunction with Berkeley's precision receiver technology for complete spectrum analysis as well as LTE physical layer demodulation. The receiver sweeps the 700 MHz to 2.2 GHz or 2.0 GHz to 5.9 GHz spectrums (choose model) to within ± 1.5 dB accuracy measuring both primary & secondary synchronization signals for RSSI, Signal Quality/CINR and Multipath. **YELLOWFIN™** LTE spectrum analysis also performs interference detection, channel clearing with trigger/synchronization modes for LTE signal frequency analysis. LTE demodulates the physical layer for Identity, Cell Identity Group, Cell Identity, Extended CP, BS Antenna Count and PBCH Channel. The optional DF (Direction Finding) Antenna allows engineers to pinpoint sources of LTE interference, rogue base stations and even nearby hackers. An internal 12-channel/satellite GPS receiver allows for geo-coded site surveys and drive-studies using optional mapping software.

LTE
700 MHz - 2.2 GHz
or
2.0 - 5.9 GHz

FREQUENCY ANALYSIS
SPECTRUM ANALYSIS
SIGNAL FREQUENCY/QUALITY
INTERFERENCE DETECTION

Spectrum Analysis:

(Primary Synchronization Signal)

- RSSI
- Quality/CINR
- Multipath

(Secondary Synchronization Signal)

- RSSI
- Quality/CINR

Demodulation:

(PHY Layer)

- Identity
- Cell Identity Group
- Cell Identity
- FDD/TDD System
- Normal/Extended CP
- Number of BS Transmit Antennas
- PBCH Channel

Call us today for more information:

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 **BERKELEY
VARITRONICS
SYSTEMS®**

Providing wireless solutions for over 35 years.

YELLOWFIN-LTE™

4G LTE ANALYZER



DEMODULATOR SPECIFICATIONS

BANDS SUPPORTED
RF SENSITIVITY (Wide Band)
RSSI (CHANNEL)
CORRELATED MULTIPATH MEASUREMENTS
CINR

MODEL C
700 MHz - 2.2 GHz
-20 to -90 dBm
-20 to -80 dBm
0 to -10 dB
0 to +20 dB

MODEL D
2.0 - 5.9 GHz

SPECTRUM ANALYZER SPECIFICATIONS

BANDS SUPPORTED
AVERAGE NOISE FLOOR (NO INPUT)
DYNAMIC RANGE
LEVEL ACCURACY
MAX INPUT (SAFE)
MAX INPUT (NO SATURATION)
REFERENCE LEVEL
DISPLAY (Tablet UMPC)
OPERATING SYSTEM (Tablet UMPC)

MODEL C
700 MHz - 2.2 GHz
< -100 dBm (reference level -70 dBm, resolution bandwidth = 50 kHz)
> 40 dB
± 1.5 dB (25° C)
+ 0 dBm
- 20 dBm
-20 to -70 dBm (10 dB steps)
see Panasonic Toughbook® specifications
Windows® XP, Vista,

MODEL D
2.0 - 5.9 GHz

TRIGGERING

USER CONTROL
PACKET/INTERFERENCE TRIGGER
TRIGGER THRESHOLD
TRIGGER DELAY

auto or manual
trigger analyzer when input power \geq threshold (20 MHz span)
user settable in dBm
user settable in mS

GENERAL SPECIFICATIONS

INTERNAL GPS RECEIVER
INPUT CONNECTOR
POWER
RUNTIME INTERNAL BATTERY
RECHARGE TIME

12-channel/satellite GPS receiver
SMA Female, 50 Ohm
Li-PO, AC or DC
> 3 hours
< 3 hours

PHYSICAL SPECIFICATIONS

WEIGHT
DIMENSIONS

5 lbs.
1.5"H x 7.5"W x 5"L (water resistant, high impact ABS plastic case)

Recommended Tablet Specifications

Manufacturer: Panasonic Toughbook CF-U1
CPU: Intel Atom 1.33 GHz
LCD: 5.6" WSVGA (daylight viewable)
OS: Windows XP UMPC Tablet Edition
VRAM: Shared
Memory: 1GB DDR 400
SSD: 16 GB Solid State Drive
Wired: 100MB LAN
Battery: 9 hour runtime (dual battery system)
Weight: 3 lbs.
Dimensions: 2.2"H x 7.2"W x 5.9"L



Toughbook tablet serves as the touch-screen interface for the Yellowfin LTE receiver.



BVS' calibrated receiver module is accurate to within ± 1.5 dB, contains a GPS receiver & rechargeable battery system.