YELLOWFIN™ Mobile WiMAX analyzer is the world's first truly portable calibrated, demodulating WiMAX 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 WiMAX packet demodulation. The receiver sweeps the 2.0 - 5.9 GHz spectrums to within ±1.5 dB accuracy. YELLOWFIN™ performs full spectrum analysis allowing RF engineers to see the whole wireless network picture. Features include power triggers, peak hold/search, markers and multiple waveform traces. WiMAX 802.16e packet analysis includes RSSI measurements, Cell ID & Segment information, multipath analysis and CINR (Carrier-to-Interference-plus-Noise-Ratios) on a preamble basis. The optional DF (Direction Finding) Antenna allows engineers to pinpoint sources of WiMAX 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.

YellowFin™ comes shipped in this protective hard carrying case with handle and wheels.
### Tablet PC WiMAX Packet/Spectrum Analyzer

#### DEMODULATOR SPECIFICATIONS
- **BANDS SUPPORTED**: 2.3 - 3.8 GHz
- **RF SENSITIVITY (Wide Band)**: -20 to -90 dBm
- **ID CELL & SEGMENT**:
- **RSSI (CHANNEL)**: -20 to -80 dBm
- **CORRELATED MULTIPATH MEASUREMENTS**: 0 to -10 dB
- **CINR**: 0 to +20 dB

#### SPECTRUM ANALYZER SPECIFICATIONS
- **BANDS SUPPORTED**: 2.0 - 5.9 GHz
- **AVERAGE NOISE FLOOR (NO INPUT)**: < -100 dBm (reference level -70 dBm, resolution bandwidth = 50 kHz)
- **DYNAMIC RANGE**: > 40 dB
- **LEVEL ACCURACY**: ± 1.5 dB (25º C)
- **MAX INPUT (SAFE)**: + 0 dBm
- **MAX INPUT (NO SATURATION)**: - 20 dBm
- **REFERENCE LEVEL**: -20 to -70 dBm (10 dB steps)
- **DISPLAY (Tablet UMPC)**: see Samsung Q1 specifications
- **OPERATING SYSTEM (Tablet UMPC)**: Windows® XP

#### TRIGGERING
- **USER CONTROL**: auto or manual
- **PACKET/INTERFERENCE TRIGGER**: trigger analyzer when input power > threshold (20 MHz span)
- **TRIGGER THRESHOLD**: user settable in dBm
- **TRIGGER DELAY**: user settable in mS

#### GENERAL SPECIFICATIONS
- **INTERNAL GPS RECEIVER**: 12-channel/satellite GPS receiver
- **INPUT CONNECTOR**: SMA Female, 50 Ohm
- **POWER**: Li-PO, AC or DC
- **RUNTIME INTERNAL BATTERY**: > 3 hours
- **RECHARGE TIME**: < 3 hours

#### PHYSICAL SPECIFICATIONS
- **WEIGHT**: 5 lbs.
- **DIMENSIONS**: 1.5”H x 7.5”W x 5”L (water resistant, high impact ABS plastic case)

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**Tablet Specifications**

- **Manufacturer**: Samsung (Q1 Ultra)
- **CPU**: Intel Pentium 1.33 GHz
- **LCD**: 7” WVGA
- **Operating System**: Windows XP UMPC Tablet Edition
- **VRAM**: Shared
- **Memory**: 1GB DDR 400
- **HDD**: 80 GB (4200 RPM)
- **ODD**: None
- **Wired**: 100MB LAN
- **Built-In Wireless**: 802.11g+BT
- **Weight**: 3 lb.
- **Dimensions**: 1”H x 5”W x 9”L

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Berkeley’s calibrated receiver module is accurate to within ± 1.5 dB, contains a GPS receiver and rechargeable battery system.