

The Champ

POWERFUL, PORTABLE SIGNAL STRENGTH METER

This compact (less than 5 lbs.) hand-held, battery-powered meter is packed with exceptional capabilities. Select from models covering a wide range of frequencies.

FEATURES:

- High measurement rate, more than twice that of Dr. Lee's recommended 40λ .
- Internal eight channel differential Global Positioning System (GPS)
- Fast charge circuit (<2 hours)
- PCMCIA memory system for post processing data
- Capability to input X/Y coordinates from a floor plan
- Odometer input for correlation to footage during drive-around studies
- Weighs less than 5 pounds

The Champ is convenient for finding RF "shadows" in indoor wireless systems for drive-around studies to detect RF leakage and propagation coverage. The PCMCIA memory system stores data for post processing.

POST PROCESSING

Data from The Champ measurements are saved to a 2 Mbyte PCMCIA battery backed-up card and to an RS-232 serial port for direct storage to a PC (up to 38K baud, selectable). The PCMCIA card data can be down-loaded to a PC using supplied PC software. Serial output may be binary (compressed) for later conversion or in an ASCII comma delimited format.



The Champ data can be imported directly into third-party software including spread sheets, such as EXCEL or propagation analysis software such as TEC's WIZARD (shown below) or MLJ's Path Pro.



The Champ comes in a durable jacket that keeps the case clean, provides protection in any weather conditions. Convenient shoulder strap for easy carrying.



Available Frequencies:

- PCS ■ Cellular ■ LMR ■ IVDS ■ SMR
- AMPS ■ ETACS ■ PACS ■ Paging

Available from stock.

The Champ is just one of many exceptional design solutions from Berkeley Varitronics. Call us today for more information:

(732) 548-3737 / Fax: (732) 548-3404

Internet: <http://www.bvsystems.com>

E-mail: info@bvsystems.com

**BERKELEY
VARITRONICS
SYSTEMS**

The Champ 100 MHz to 2 GHz Receiver

SPECIFICATIONS

DISPLAY 64 X 240 pixel Graphic Backlighted Electro-luminescence LCD (Super Twist)

TUNING RANGE 20-40 MHz tuning range of band

BANDS SUPPORTED ISM: 900-932 MHz
PCS: 1850-1910 or 1930-1995 MHz
LMR: 805-825 or 850-870 MHz
Cellular: 824-848 or 868-896 MHz tunable in 30 kHz steps
ETACS: 872-905 or 915-950 MHz
Paging: 145-165 or 450-465 or 928-941 MHz
IVDS: 218-219 MHz

SENSITIVITY -118 to -30 dB \pm 1 dB (@ 10 KHz IF Bandwidth)
Adj. Chan. Rejection: > 50 dB @ 30 KHz

RSSI MEASUREMENTS	msec/chan	chan/sec
RSSI Measurement:	15	50
Fast Scan (Scan RX Band):	15	66

GENERAL SPECIFICATIONS

Dual Conversion: 83 MHz first IF, 455 KHz second IF
IF Bandwidth: 4 KHz, 10 KHz, 25 KHz or 30 KHz available (@ 5dB)
Stability: \pm 2.5 PPM from freezing to 120°F
Phase Noise: > 80 DBC @ 1 KHz
Antenna: TNC 50 ohms
Controls: 20 spillproof button keypad
Warm Up Time: < 3 minutes
Power: (1) Internal 12 Volt Ni-Cad batteries 1.8 A.H.
Internal battery run time > 8 hours
(2) External car cigarette lighter 12-16 VDC @ 200 mA
(3) External DC transformer 16V @ 500 mA, 120 or 240 VAC auto switching
Serial Port: RS232, 9600 baud, 8 bit. no parity, 1 stop bit
Weight: 5 lbs.
Dimensions: 3.5" H x 6" W x 7.75" L
Approvals: UL, CSA

INCLUDES

Antenna: Right angle TNC 50 ohm
Case: Black vinyl foam lined carrying case with shoulder strap
Car Lighter Adapter: 12-16 VDC @ 200 mA
Charger: Battery charger with fast charge circuit (< 2 hours full charge)
PC Software: 3-1/2" Diskette MS DOS - commented source code provided
GPS: Internal 8 Channel Differential GPS Navigation with active antenna

OPTIONS

PCMCIA: Mass (Non-Volatile) Storage RAM Cards (128 k to 2 MBytes)
Printer: Seiko, Inc. DPU-411 or DPU-411 Type II, with cable
IF Bandwidth: 4 KHz, 10 KHz, 25 KHz, 30 KHz
BER Demodulation: Bit, byte, packet and burst error counts (certain models only)