

Champ Ultra-Lite™

INDOOR SIGNAL STRENGTH METER

The Champ Ultra-Lite™ is a lightweight, hand held receiver that's ideal for quick indoor sweeps by propagators.

FEATURES:

- 2 line x 16 character STN LCD
- Exceptional sensitivity: Typically -118 dBm
- Wide dynamic range: (>90 dB)
- Optional IF bandwidths: From 4 to 30 kHz
- Fully synthesized tuning
- Temperature compensated quarts accuracy
- Accurate 8-bit A/D measurement accuracy
- Long run-time
- Dragonfly battery pack allows extended operation of 8+ hours.



The Champ Ultra-Lite is convenient for finding indoor RF “shadows” in microcell applications, or for mobile studies to detect RF leakage and propagation coverage. The rugged ABS plastic case is ergonomically designed to allow one handed operation, with additional provision for vehicular or wall mount.

The Champ Ultra-Lite with Dragonfly battery pack that allows for >8 hours of continual operation is shown at right.



The Champ Ultra-Lite is available in the following standard frequency models:

- **ISM • PCS • LMR • IDEN/SMR**
- **CELLULAR • ETACS**
- **PAGING • IVDS • WCS**

The Champ Ultra-Lite™ is just one of many exceptional design solutions from Berkeley Varitronics.

Call us today for more information:

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**BERKELEY
VARITRONICS
SYSTEMS**

Champ Ultra-Lite™ SIGNAL STRENGTH METER

SPECIFICATIONS

DISPLAY	2 x 16 alphanumeric STN LCD
TUNING RANGE	20-40 MHz tuning range of band
BANDS SUPPORTED	ISM: 2.400-2.485 GHz 900-930 MHz PCS: Uplink (Blocks A through F) 1850-1910 MHz Downlink (Blocks A through F) 1930-1995 MHz LMR: 805-825 MHz IDEN/SMR: 850-870 MHz Cellular: 824-848 MHz 868-896 MHz ETACS: 872-905 MHz 915-950 MHz Paging: 145-165 MHz 450-465 MHz 928-941 MHz IVDS: 218-219 MHz
SENSITIVITY	-115 to -35 dB \pm 1.5dB (10 kHz IF bandwidth, for 12 dB SINAD)

ADJ. CHAN. REJECTION > 50 dB @ 30 kHz bandwidth

MEASUREMENT ACCURACY \pm 1.5 dB

MEASUREMENT SPEED 20/sec (Each measurement consists of 32 averaged samples)

CHANNEL SCAN RATE 20 channels/second

GENERAL SPECIFICATIONS

Dual Conversion:	83 MHz first IF, 455 kHz second IF
IF Bandwidth:	12.5 kHz (standard)
Stability:	\pm 2.5 PPM from freezing to 120°F
Phase Noise:	> 80 dBc @ 1 kHz offset
Antenna:	TNC 50 Ω whip
Controls:	3 button keypad
Warmup Time:	< 1 minute
Power:	Dragonfly external battery pack (supplied), or internal 9 Volt battery, 560 mAH (run time > 5 hrs.)
Weight:	1.5 pounds
Dimensions:	6" L x 4" W x 3" D

INCLUDES

Antenna:	Right angle TNC 50 Ω whip antenna
Case:	Yellow ABS plastic case
Mount:	Wall mount kit

OPTIONS

IF Bandwidth:	4kHz, 10 kHz, 25 kHz, 30 kHz
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Other custom frequencies are available upon request.