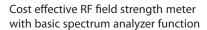


# 2.0 GHz Handheld RF Field Strength Meter

# Model 2640





The B&K Precision model 2640 is a battery operated, hand-held RF Field Strength Meter capable of measuring RF levels and electric field strength. The synthesizer-based design provides you with reliable measurements across a wide reception range of 100KHz to 2000MHz, a remarkably low noise floor of -110 dBm to detect weak signals and basic spectrum analyzer functionality. The 2640 provides field technicians and engineers with a cost-effective measurement tool for basic signal investigations at only a fraction of the cost of a full-featured conventional spectrum analyzer.

The 2640's user-friendly interface combined with convenient presets such as predefined filter settings and other special functions (e.g. squelch) commonly used in analog communication systems make the 2640 easy to use. The B&K Precision 2640 supports RS 232C serial communication and includes software that can control the instrument from a personal computer. The user can save the instrument's measurement data on the PC for further analysis.

The handheld RF Field Strength Analyzer is an ideal tool for field testing, installing and maintaining Mobile Telecommunications systems



such as Cellular and Cordless Phone, CB Paging, Paging, Cable and Satellite TV Systems as well as performing antenna site measurements and maintenance.

### **Features**

- Battery-operated portability
- 100KHz to 2GHz measurement range with a maximum display span of 400MHz
- Hand-held and battery operated portability
- Built-in 2GHz frequency counter
- Detects wide band (180KHz) and narrow band FM (12.5KHz), AM & SSB (2.4KHz) signals
- Phase-locked loop for precise frequency tuning
- Up to 160 channels may be scanned and displayed
- Audio output of the detected signal with built-in speaker
- Detachable antenna included
- Back-lit display
- Storable setups and displays
- RS-232 Interface



2222 Verus Street Suite C San Diego CA 92154 USA

Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012

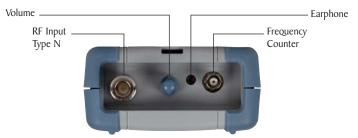
Email: sales@calright.com http://www.calright.com

The Right Source For Your Test & Measurement Needs

# Handheld RF Field Strength Meter Model 2640

## ▲ RF Field Strength Analyzer

- Spectrum: Peak Search, Marker to Center, Channel Power Function
- Internal Attenuation: The input range can be extended by enabling the internal 10 dB Attenuation function
- Sweep Mode: Single Run, Free Run, Squelch Run Selectable
- Squelch Function: The Squelch Level may be adjusted across the full dynamic range.



### ▲ Frequency Counter

The 2640's built in frequency counter is independent from the field strength analyzer and measures the signal applied to the external BNC connector

■ Frequency range: 35 MHz to 2,000 MHz

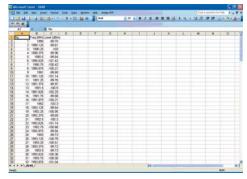
■ No. of digits: 7 digits■ Resolution: 1 kHz

#### PC Software

The included AK2640 software and interface cable allows full control of the 2640 via a PC through the RS232C interface. The software allows the saving, recalling and analyzing of current and saved waveforms. The 2640 can save up to 100 waveforms and states in to it's internal memory.



Screenshot of the AK2640 software



Screenshot of the exported CSV data



The Right Source For Your Test & Measurement Needs

and the second s	model	
	2640	
requency		
Frequency Range	100 kHz to 2,000 MHz	
Resolution	Min. 6.25 kHz Multiples	
Accuracy	± 4.5 PPM	
W-FM / N-FM	Wide FM: Approx. 180 kHz @-6 dB	
/ AM / SSB	Narrow FM: Approx. 12.5KHz @-6 dB	
	AM/SSB: Approx. 2.4 kHz @-6 dB	
Step Range	AM, SSB, Narrow FM: 6.25 kHz, 12.5 kHz	
	Wide FM: 6.25~125 kHz (Multiple of 6.25 kHz)	
	125~2500 kHz (Multiple of 125 kHz)	
Span Range	AM, SSB, Narrow FM: 1 MHz, 2 MHz	
	Wide FM: 1~20 MHz (Multiple of 1 MHz)	
E CL C M L	20~400 MHz (Multiple of 20 MHz)	
Frequency Selection Mode	Center, Start/ Stop, Span	
Amplitude	45 lp 4 110 lp	
Measurement Range	-45 dBm to -110 dBm	
Average noise Level	Wide FM: -100 dBm Max.	
	Narrow FM: -110 dBm Max.	
Amplitudo Huito	AM/SSB: -100 dBm Max.	
Amplitude Units	dBm, dBmV, dBuV	
Reference Level Accuracy	±3.0 dB (Typical) @ 400 kHz to 600 kHz	
Deference Loyal Dange	±2.0 dB @ over 600 kHz	
Reference Level Range	0 dBm to -80 dBm	
Log Scale	0.2 dB/DIV min, in 0.25 dB Span (5 Display Division)	
Internal Attn Internal Attn Accuracy	10 00	
	±1.0 dB (@25)	
Sweep	Min 500 maga	
Speed Trigger Source	Min. 500 msec Narrow FM / Wide FM / AM / SSB	
Trigger Mode	Free Run /Single Run /Continuous /Wave Squelch Run	
Trigger Level	TTL Level	
Marker Mode	Marker / Delta Marker	
Memory	Warker / Delta Warker	
Trace & Setup Storage	Max 100 Waveforms and 100 States	
Display	Max 100 Waveloring and 100 States	
Туре	Mono STN LCD	
Display Resolution	192 Pixels X 192 Pixels	
LCD Light	On / Off	
Frequency Counter	c / c	
Frequency Range	35 MHz to 2,000 MHz	
Resolution	7 Digits	
Accuracy	±50 PPM ±1 COUNT	
Sampling Time	l sec	
Input Sensitivity	35 MHz to 2,000 MHz : 150 mVrms	
1	20 MHz to 1,000 MHz : 100 mVrms	
Input Impedance	50 Ω	
Max. Input Voltage	5 Vrms Max.	
Spectrum Input Port		
RF Input Connector	N type Female, $50\Omega$	
Max Input Level	Max. +10 dBm, 5V rms	
Operation Environment	* * * * * * * * * * * * * * * * * * * *	
Operating Temperature	0° C to 40° C	
Humidity	35% RH to 85% RHP	
Storage Temperature	10° C to 50° C	
Power Source		
Battery Power Source	AA Type Ni-MH Rechargeable Battery × 6 PCS	
Battery Specification	AA Type 1.2 V, 2,700 mAh Rechargeable Nickel Metal Hydride Battery	
Adapter	SMPS Type AC Adapter (DC 12 V Output) Car-Adapter (DC 12 V Output)	
Auto Power On/Off	Off/ 5 min./ 10 min./ 20 min./30 min.	
Physical Specifications	- ,,,	
Dimension	4 "(W)×9 "(H)×1.8 "(D)	
Weight	Approx. 0.66 kg(1.45 lbs)	
	(including Antenna, except Battery)	
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#### Accessories

Supplied: Antenna (Receive Only), SMPS Type AC Adapter, Fuji-AA type NI-MH Rechargeable Battery (6 PCS, 1.2 V 2,700 mAh), Manual, Coaxial Cable, Earphone, Carrying Case, Carrying Belt, RS-232C Cable, Adapter(N-BNC), Software for PC Application

www.bkprecision.com

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