

## **Model 2640**

2.0GHz Handheld RF Field Strength Meter

## **Data Sheet**



## Model 2640 2.0GHz Handheld RF Field Strength Meter

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
- I00KHz 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

## **B&K Precision Corporation**

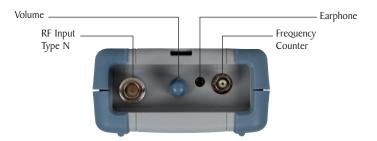
22820 Savi Ranch Parkway, Yorba Linda, CA 92887 Tel: 714-921-9095, Fax: 714-921-6422 www.bkprecision.com

# www.valuetronics.com

### Features

**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

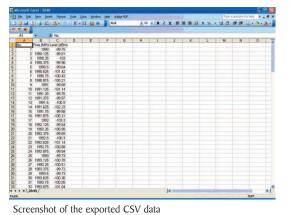
- Frequency range: 35 MHz to 2,000 MHz
- No. of digits: 7 digits
- Resolution: | kHz

#### 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



2640 Frequency 100 kHz to 2,000MHz Frequency Range Resolution Min. 6.25KHz Multiples TXO: ± 3 PPM / Display: ± 1.5 PPM Accuracy W-FM / N-FM Wide FM : Approx. 180KHz @-6 dB Narrow FM : Approx. 12.5KHz @-6 dB / AM / SSB AM/SSB : Approx. 2.4KHz @-6 dB AM, SSB, Narrow FM: 6.25KHz, 12.5KHz Step Range Wide FM: 6.25~125kHz (Multiple of 6.25 kHz) 125~2500KHz (Multiple of 125KHz) Span Range AM, SSB, Narrow FM : 1MHz, 2MHz Wide FM : I~20MHz (Multiple of IMHz) 20~400MHz (Multiple of 20MHz) Frequency Selection Mode Center, Start/ Stop, Span Amplitude Measurement Range -45 dBm to -110 dBm Average noise Level Wide FM : -100 dBm Max. Narrow FM : -110 dBm Max. AM/SSB : -100 dBm Max. Amplitude Units dBm, dBmV, dBuV ±3.0 dB @ under 600KHz Reference Level Accuracy ±2.0 dB @ over 600KHz 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 10 dB Internal Attn Accuracy ±1.0 dB (@25) Sweep Min. 500 msec Speed Trigger Source Narrow FM / Wide FM / AM / SSB Trigger Mode Free Run /Single Run /Continuous /Wave Squelch Run TTL Level Trigger Level Marker Mode Marker / Delta Marker Memory Trace & Setup Storage Max 100 Waveforms and 100 States Display Mono STN LCD Type Display Resolution 192 Pixels X 192 Pixels On / Off LCD Light Frequency Counter 35MHz to 2,000MHz Frequency Range 7 Digits Resolution ±50 PPM ±1 COUNT Accuracy l sec Sampling Time Input Sensitivity 35MHz to 2,000MHz : 150 mVrms 20MHz to 1,000MHz : 100 mVrms Input Impedance 500 Max. Input Voltage 5 Vrms Max. Spectrum Input Port RF Input Connector N type Female,  $50\Omega$ Max Input Level Max. +10 dBm, 5Vrms **Operation Environment** 0° C to 40° C Operating Temperature Humidity 35% RH to 85% RHP 10° C to 50° C Storage Temperature Power Source Battery Power Source AA Type Ni-MH Rechargeable Battery × 6 PCS AA Type 1.2 V, 2,700 mAh Rechargeable Nickel Battery Specification Metal Hydride Battery SMPS Type AC Adapter (DC 12 V Output) Adapter 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) **One Year Warranty** Accessories

**Specifications** 

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

model