Protek 7830

Specification

Frequency	Range	100kHz to 2900MHz
	Resolution	3.125KHz (Multiple of 3.125KHz)
	Accuracy	TXO: ±3PPM
		Display: ±1.5PPM
	Modulation Bandwidth	Wide FM: Apprx. 180kHz(-6dB)
		Narrow FM: Apprx 12.5kHz/ AM / SSB: Apprx 2.4kHz (- 6dB)
	Step Range	AM/SSB:2.5KHz fixed. FM:6.25KHz
	Frequency Selection	Start, Stop, Center span setup
Amplitude	Measurement Range	-20dBm to -110dBm
	Average Noise Level	Wide FM: -100dBm Narrow FM / AM / SSB: -110dBm
	Amplitude Units	dBm, dBmV, dBuV
	Reference Level Accuracy	Typical 1.5dB (@20℃ to 25℃)
	Reference Level Ranges	+20dBm to -90dBm
	Log Scale	0.2 dB/DIV min. in 0.25 dB Steps (5 Display Division)
	Internal Atten	Max 35dB (Step: Min 1dB)
Sweep	Speed	500msec to 2000msec
	Trigger Source	Narrow FM / Wide FM / AM / SSB
	Trigger Mode	Free Run / Single Run / Continous Wave / Squelch Run
	Trigger Level	TTL Level
	Marker Modes	Marker / Delta Marker / Peak Search / Marker to Center / Channel Power
Memory	Trace Storage	Max 100 Waveforms
	Setup Storage	100 States
Display	Type	Mono STN LCD
	Display Resolution	192 x 192 pixels
	LCD BackLight	ON /OFF / AUTO
Input	RF Input Connector	N Type Female, 50 ohms
	Maximum Input Power	Max +10dBm, 5V RMS
Frequency Counter	Range	10MHz to 2900MHz
	RF Input Connector	BNC Type Female, 50 ohms (Standard)
General Specification	Operation Temperature	0 ℃ to 40 ℃
	Humidity	35 RH to 85 RH
	Storage Temperature	10℃ to 50℃
Power	Power Source	AA Type Ni-MH Rechargeable Battery x 6pcs
	Power Adaptor	SMPS Type AC Adapter DC 12V Car-adapter DC 12V
	Auto Power	OFF / 5sec / 10sec / 20sec / 30sec
Dimension & Weight	Size	102(W) X 229(H) X 45(D) mm
	Weight	Aprx. 2.2lbm / 700grams (Except Antenna)
Other	Speaker	0.5W into 8 ohms Speaker
	Antenna	Dipole Antenna (Receive Only)
	RS-232 Interface	9600 bps, 19200 bps, 38400 bps, 57600 bps, and 115200 bps
		8-pin MINI-DIN Connector

Standard Accessories

Antenna (Receive Only), AA Type Ni-MH Rechargeable Batteries (1.2 2,500mAH), Coaxial Cable, RS-232 Cable, Carrying Case, Carrying Strap, Earphone, Manual, Software for PC Application.

Optional Accessories

Matching Pad (75 to 50), F-BNC Adaptor, AC Adaptor, Car Adaptor, AA Type Ni-MH Batteries (1.2V 2,500mAH) Mini Printer Cable, Block Voltage Unit



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HEADQUARTERS



Protek 7830

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Since its foundation in 1972, Protek has continued to invest in the research and development of quality test and measuring equipment. As a result, we have achieved great success with the design and production of various innovative test instruments, all utilizing our own technology. Now, Protek is regarded as one of the best in the field of the general-purpose test and measuring instruments. As such, the end-user can select from a variety of Protek products including general-purpose test equipment, educational instruments, automotive and RF testers. At all times, we stress superior quality and intolerance to error.

Applications

▶ Field wireless Equipment Installation and Maintenance

General field use for Communications Installation

▶ Cable Installation and Maintenance

▶ Tapping, Hidden Camera Detection

Jammer (for hospital, theater and military) Performance Test

Satellite Antenna Installation and Maintenance

▶ RFID Tag RF Strength Measurment



 Protek7830 Plus Handheld Spectrum Analyzer is the compact, lightweight, portable, and cost-effective equipment with various measurement functions such as Marker, Delta Marker, Peak Search, Channel Power measurement etc So, it is the idea tool for field RF technicians to test, install and maintain Wireless Mobile Telecommunications Systems Cable Systems, Satellite Antennas, RFID and Jammer Systems etc.

Features

- ▶ 100kHz to 2.9GHz measurement range
- ▶ Measures and demodulates W-FM /N-FM/ AM /
- Sweep mode (Free Run, Single Run, Squelch Run)
- ▶ PLL tuning system for precise frequency tuning
- ▶ 100 Saves and loads for waveforms and settings
- ▶ Enhanced Accuracy for Signal Level
- Marker / Delta Marker / Squelch Adjustment
- Peak Search Function
- Marker To Center Function
- Channel Power Measurement Function
- ▶ RS-232 Interface
- User-friendly Icon Display



Handheld Spectrum Analyzer Protek 7830

Protek is ready to provide you with good solution and good service that you need anytime and anywhere.

Level Accuracy

Frequency Range

Marker Functions

such as CDMA and WCDMA

Demodulation

Power Measurement

Save up to 100 Memories

0.5W Internal Speaker

Durable Operation Time

because it builds in Ni-MH batteries

As Light As a Feather

Protek 7830 guarantees basic accuracy typ. 1.5dB at all ranges

arieties of marker functions such as Peak Search, Marker to Center

You can use Protek 7830 when you check channel powers of

It supports demodulations of wide FM, Narrow FM, SSB and AM

It can store and recall up to 100 traced waveforms and setup

It has a 0.5W of internal speaker that can output a demodulated

It can be used for 10 hours without the power line at field service

signals for base stations that used in wireless communication

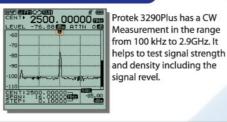
and Delta Marker will help to measure more detailed levels of signals

It has a wide band reception of 100 kHz to 2.9GHz

Channel Power

The Channel Power Measurement Function is for determining the power in a transmission channel specified by the user. n the case of CDMA with 849.98MHz channel width at 1.25MHz from the carrier.

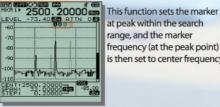
Continuous Wave

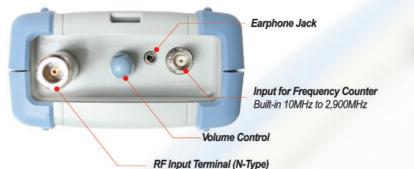


Peak Search



This function detects a peak noves the marker to that The marker is always displayed on the peak.





Protek 7830 LCD Display Bright, easy-to-read, 192 X 192 pixels, up

to 160 channels

MKR2 851.00000

Dial Knob Fast one-hand selection of menu item and freq. maker



charger (included)

Delta Marker

The Delta Marker is displayed on the same position as that of the normal marker. The frequency and level value of this marker are relative to those of the normal marker.



Noise Level

Protek 3290Plus supports -110dBm of low displayed average noise level. Noise is extremely important for measurements on frequencyprocessing equipment or when searching for interference signals.



Mobile Phone Signal

Protek 3290Plus enhances to measure wireless communication signals such as CDMA, GSM, Cellular Phone and Cordless Phone.



It only weighs about 700g without batteries



The Smallest Spectrum Analyzer Protek 3290Plus is an ultra small size of hand-held spectrum

Protek 7830 is an ultra lightweight of spectrum analyzer.



RS-232C Interface

All of functions supported on the unit can be controlled through the serial communication with RS-232C. The GUI software program will provide more powerful functions to handle the Protek 3290 Plus



Firmware Upgrade

Jser can upgrade new firmware directly through our web site after purchasing this unit. Variable applications of new field will be provided from this solution



Car Adaptor

It can be used in a car and recharged by car adaptor

for each sweep, and always

Marker to Center

at peak within the search range, and the marker requency (at the peak point) s then set to center frequency.

5 8



The Dynamic Range can be

Dynamic Range

set automatically when the frequencies are measured. And also user can set the ranges from -20dBm to -110dBm.

