

## Protek-7830

Spectrum Analyzer

100kHz to 2.9GHz (handheld)



Protek 3290 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 /SSB signals
- Sweep modes (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 Function
- Peak Search Function

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立益通訊有限公司

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- Marker To Center Function
- Channel Power Measurement Function
- RS-232 Interface
- User-friendly Icon Display

### Applications

- Field Wireless Equipment Installation and Maintenance
  - General field use for Communications Installation and Maintenance
  - Cable installation and Maintenance
  - RFID Tag RF Strength Measurement
  - Jammer (for hospital, theater and military) Performance Test
  - Satellite Antenna installation and Maintenance
  - Tapping, Hidden Camera Detection

### Specifications

<b>Frequency</b>	Range	100 kHz to 2900 MHz
	Resolution	3.125 kHz (Multiple of 5 kHz)
	Accuracy	TXO : $\pm 3$ PPM Display : $\pm 1.5$ PPM



	Modulation	Wide FM : Apprx. 180 kHz(-6dB)
	Bandwidth	Narrow FM : Apprx 12.5 kHz/ AM / SSB: Apprx 2.4 kHz(-6dB)
	Step Range	6.25 kHz
	Frequency Selection	Start, Stop, Center span setup
<b>Amplitude</b>	Measurement Range	-20dBm to -110dBm
	Average Noise Level	Wide FM : -100dBm
		Narrow FM / AM / SSB:-110dBm
	Amplitude Units	dBm, dBmV, dBuV
	Reference Level	Wide FM / AM / SSB Typical 1.5dB(20°C ~30°C)
	Accuracy	Narrow FM Typical 1.5dB(25°C)
	Reference Level	120dBm to -90dBm
	Ranges	
	Log Scale	0.2 dB/div Min. in 0.25 dB Steps(5 Display Division)
Internal Atten	10dB, 20dB, 30dB, 35dB	
<b>Sweep</b>	Speed	min.500 msec
	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 and 100 States
	Setup Storage	
Display	Type	Mono STN LCD
	Display Resolution	192 x 192 pixels
	LCD BackLight	ON/ OFF
	RF Input Connector	N Type Female, 50 ohms
Input	Maximum Input	Max +10dBm, 5V RMS
	Power	
Frequency	Range	35MHz ~ 2900MHz
Counter	RF Input Connector	BNC Type Female, 50 ohms (Standard)
General	Operation	0°C to 40°C
	Temperature	
Specification	Humidity	35 RH to 85 RH
	Storage Temperature	10°C to 50°C
Power	Power Source	AA Type Ni-MH Rechargeable Battery x 6pcs
	Power Adaptor	SMPS Type AC Adaptor DC 12V



		Car-adapter DC 12V
	Auto Power	OFF/ 5 min/ 10 min/ 20 min/ 30 min
Dimension &	Size	102(W) x 229(H) x 45(D) mm
Weight	Weight	Aprx. 2.2lmb / 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 Accessory

- Antenna (Receive Only)
- AA Type Ni-MH Rechargeable Batteries (1.2V 2,700mAh)
- Coaxial Cable/- RS-232 Cable/- Carrying Case/- Carrying Strap/- Earphone/- Manual
- Software for PC Application



## Option Accessory

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



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