

Analyzer

Handheld Spectrum Analyzer / Tracking Generator

■ Protek 7830+G632



Protek 7830 (2.9GHz)

Protek 7830 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 ideal for RF field technicians to test, install and maintain Wireless Mobile Telecommunication Systems, Cable Systems, Satellite Antennas, RFID and Jammer Systems etc.



Handheld Spectrum Analyzer **Protek 7830**



Tracking Generator **Protek G632**



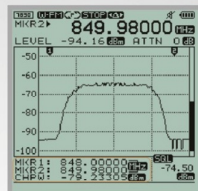
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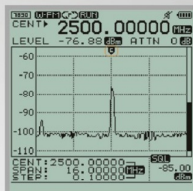
Various Waveforms

Channel Power



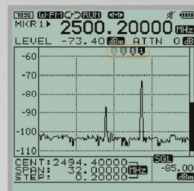
The Channel power Measurement Function is for determining the power in a transmission channel specified by the user. In the case of CDMA with 849.98MHz channel width at 1.25MHz from the carrier.

Continuous Wave



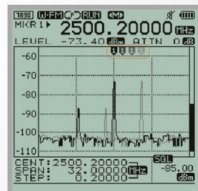
Protek 7830 has a CW Measurement in the range from 100kHz to 2.9GHz. It helps to test signal strength and density including the signal level.

Peak Search



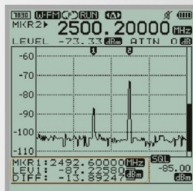
This function detects a peak for each sweep, and always moves the marker to that peak. The marker is always displayed on the peak.

Marker to Center



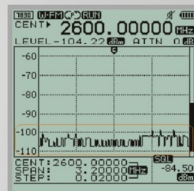
This function sets the marker at peak within the search range, and the marker frequency (at the peak point) is then set to center frequency.

Delta Marker



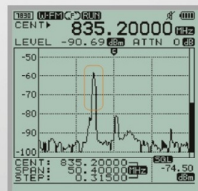
The Delta Marker is displayed on the same position as that of the normal marker. The frequency and level value of this marker are relative to those of the normal marker.

Noise Level



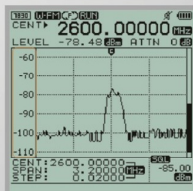
Protek 7830 supports -110dBm of low displayed average noise level. Noise is extremely important for measurements on frequency-processing equipment or when searching for interference signals.

Mobile Phone Signal



Protek 7830 enhances to measure wireless communication signals such as CDMA, GSM, Cellular phone and cordless phone.

Dynamic Range



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

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)
- 100 Saves and loads for waveforms and settings
- Marker / Delta Marker / Squelch Adjustment Functions
- Peak Search Function
- Marker to Center Function
- Channel Power Measurement Function
- RS-232 Interface

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

	MODEL	7830	G632(7830)
Frequency	Range	100kHz to 2900MHz	30MHz to 2.9GHz
	Resolution	Min. 6.25kHz (Multiple of 6.25kHz)	
	Accuracy	TXO : ± 3 PPM Display : ± 1.5 PPM	
	Modulation Bandwidth	Wide FM : Apprx. 180kHz (-6dB) Narrow FM : Apprx 12.5kHz / AM / SSB: Appex 2.4kHz (-6dB)	
	Step Range	6.25kHz	
	Frequency Selection	Start, Stop, Center span setup	
Amplitude	Measurement Range	-20dBm to -110dBm	-55dBm to -65dBm / 5dB steps
	Average Noise Level	Wide FM / AM / SSB : -100dBm Narrow FM: -110dBm	
	Amplitude Units	dBm, dBmV, dBuV	dBm
	Reference Level Accuracy	Wide FM/AM/SSB Typical ± 1.5 dB (20°C ~ 30°C) Narrow FM Typical ± 1.5 dB (25°C)	± 2.0 dB (Typical-95%) (@20°C to 30°C)
	Reference Level Ranges	0dBm to -80dBm	
	Log Scale	0.2dB/div Min. In 0.25dB Steps (5 Display Division)	
Sweep	Internal Atten	10dB, 20dB, 30dB, 35dB	
	Speed	Min. 500msec	
	Trigger Source	Narrow FM / Wide FM / AM / SSB	
	Trigger Mode	Free Run / Single Run / Continuous Wave / Squelch Run	
	Trigger Level	TTL Level	
	Marker Modes	Marker / Delta Marker / Peak Search / Marker to Center / Channel Power	
Memory	Trace Storage/Setup Storage	Max 100 Waveforms and 100 States	
Display	Type	Mono STN LCD	
	Display Resolution	192 X 192 pixels	
Input	LCD Backlight	ON / OFF	
	RF Input Connector	N Type Female, 50ohms	N Type Connector
Frequency	Maximum Input Power	Max + 10dBm, 5V RMS	
	Range	35MHz to 2900MHz	
General Specification	RF Input Connector	BNC Type Female, 50ohms (Standard)	
	Operation Temperature	0°C to 40°C	0°C to 40°C
	Humidity	35RH to 85RH	35RH to 85RH
	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-adaptor DC 12V	SMPS Type AC Adapter DC 12V
Dimension & Weight	Auto Power	OFF / 5min / 10min / 20min / 30min	
	Size	102(W) X 229(H) X 45(D)mm	60 X 135 X 40mm
	Weight	Aprx. 2.2 lmb / 700grams (Except Antenna)	about 200g
	Speaker	0.5W into 8 ohms Speaker	
Other	Antenna	Dipole Antenna (Receive Only)	
	RS-232C Interface	9600bps, 19200bps, 38400bps, 57600bps, and 115200bps 8-pin MINI-DIN Connector	RS-232