

Best Product

Protek

Handheld  
**Spectrum Analyzer** 2.9GHz  
with Tracking Generator



7830 + G632



RF Field  
**Strength Analyzer**  
2.0GHz / 2.9GHz



3290N / 3201N



# Protek 7830 / G632(7830) / 3290N / 3201N

Handheld Spectrum Analyzer(Tracking Generator)  
RF Field Strength Analyzer

## 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



## Specifications

MODEL	7830	3290N	3201N	G632(7830)	
Frequency	Range	100kHz to 2900MHz		100kHz to 2000MHz	30MHz to 2.9GHz
	Resolution	3,125kHz (Multiple of 3,125kHz)			
	Accuracy	TXO: $\pm 3$ PPM Display: $\pm 1,5$ 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			
	Measurement Range	-20dBm to -110dBm	-45dBm to -110dBm		-55dBm to -65dBm / 5dB steps
Amplitude	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 $\pm 1,5$ dB( 20°C~30°C) Narrow FM Typical $\pm 1,5$ dB(25°C)	Wide FM / AM / SSB Typical $\pm 2,0$ dB (20°C to 30°C) Narrow FM Typical $\pm 2,0$ dB (25°C)		$\pm 2,0$ dB (Typical-95%) (@20°C to 30°C)
	Reference Level Ranges	120dBm to -90dBm			
	Log Scale	0,2dB/div Min, In 0,25dB Steps (5 Display Division)			
	Internal Atten	10dB, 20dB, 30dB, 35dB	10dB		
	Speed	Min,500msec			
Sweep	Trigger Source	Narrow FM / Wide FM / AM / SSB			
	Trigger Mode	Free Run / Single Run / Continuous Wave / Squelch Run			
	Trigger Level	TTL Level			
Memory	Marker Modes	Marker / Delta Marker / Peak Search / Marker to Center / Channel Power	Marker / Delta Marker / Single Power Meter / Multi Power Meter		
	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		35MHz to 2000MHz	
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
Other	Speaker	0,5W into 8 ohms Speaker			
	Antenna	Dipole Antenna (Receive Only)			
	RS-232C Interface	9600bps, 19200bps, 38400bps, 57600bps, and 115200bps 8-pin MINI-DIN Connector			RS-232