

## Features

- 100kHz to 2,900MHz measurement range(3290N only)
- Measures and demodulates W-FM / N-FM / AM / SSB signals
- PLL tuning system for precise frequency tuning
- Built-in Frequency Counter and speaker
- LED Backlight LCD (192X192 dots)
- RS-232C for PC interface and printer(8 pin mini Din)
- Menu driven for various function
- 3 Types of Sweep modes (Free run/Single run/Squelch run)
- Save and recall: 100 Waveforms and 100 states
- dBm/dB $\mu$ V/dBmV/Display

## Standard Accessories

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

## Optional Accessories

- Matching Pad(75 to 50)
- F-BNC Adaptor

## Specifications

MODEL		3290N	3201N
Frequency	Range	100kHz to 2900MHz	100kHz to 2000MHz
	Resolution	6.25kHz(Multiple of 6.25kHz)	
	Accuracy	TXO: $\pm 3$ PPM Display: $\pm 1.5$ PPM	
	Modulation Bandwidth	Wide FM: Approx. 180kHz(-6dB) Narrow FM: Approx 12.5kHz(-6dB)	AM/SSB: Approx 2.4kHz(-6dB)
	Step Range	6.25kHz, 12.5kHz	
	Frequency Selection	Start, Stop, Center span setup	
Amplitude	Measurement Range	-45dBm to -110dBm	
	Average Noise Level	Wide FM/AM/SSB: -100dBm Narrow FM: -110dBm	
	Amplitude Units	dBm, dBmV, dBuV	
	Reference Level Accuracy	Wide FM Typical $\pm 2.0$ dB(20°C ~ 30°C), Narrow FM Typical $\pm 2.0$ dB(25°C)	
	Reference Level Ranges	0dBm ~ -80dBm	
	Log Scale	0.2dB/div Min. in 0.25dB Steps(5 Display Division)	
	Internal Atten	10dB	
Sweep	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/ Squelch Marker	
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	
Input	RF Input Connector	N Type Female, 50ohms	
	Maximum Input Power	Max +10dBm, 5V RMS	
Frequency	Range	35MHz ~ 2900MHz	35MHz to 2000MHz
	RF Input Connector	BNC Type Female, 50ohms(Standard)	
General Specification	Operation Temperature	0°C to 40°C	
	Humidity	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	
	Auto Power	OFF/ 5min/ 10min/ 20min/ 30min	
Dimension & Weight	Size	102(W) X 229(H) X 45(D)mm	
	Weight	Aprx. 2.2 lbs/ 700grams(Except Antenna)	
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	