



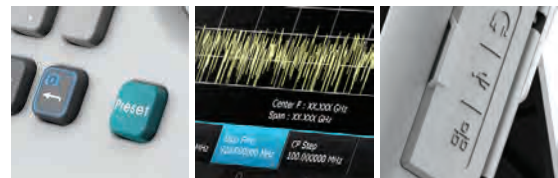
## Analyzer

TEST &  
MEASURING  
INSTRUMENTS

## 4.4GHz Handheld Spectrum Analyzer

# Protek A734

New Protek A734 handheld spectrum analyzer has been optimized for the convenience of mobility with lightweight (<2Kg), 5.7 inch sunlight readable LCD, long battery life (> 8 hours) and smart battery indicator. Comparable DANL (Displayed Average Noise Level) enables users to detect more accurately low level of signals and additional features such as phase noise measurement, audio listen, and zero span options, will lead users to take advantage of Protek A734 in more field applications than other spectrum analyzers.



## Features

Frequency Range (100kHz ~ 4.4GHz)

Zero Span

Minimum Span : 600Hz

Smart Battery Indicator

Modern Connectivity (USB, LAN)

Audio Listen

5.7 inch TFT Sun-light Readable Screen



## Specification

1	Frequency	Range	100 kHz to 4.4GHz		
		Span Mode	Center Freq + Span or Start Freq + Stop Freq ,ZERO Span		
		Span	ZERO SPAN , 600 Hz~ 4.4GHz		
		Minimum Span	600 Hz		
		Internal Frequency Reference Accuracy	±1PPM		
		Frequency Readout Accuracy	±1PPM		
		Marker Accuracy	±1PPM		
2	Amplitude	RBW	0.1Hz to 250 kHz & 5MHz(0.1, 0.2, 0.4 ,0.8, 1.6, 3.2, 6.5, 13, 25, 50, 100~)		
		Measurement Range	DANL ~ 1dB Gain Compression 1dB Gain Compression(attenuator 15dB, preamp off) +16dBm Typical, 1Hz to 150MHz +19dBm Typical, 150MHz to 4.4GHz		
		DANL	Displayed Average Noise Level : 0dB Att, 1Hz RBW		
			FREQ	Preamp OFF	Preamp ON
			10Hz	-124dBm	NA
			100Hz to 10 kHz	-130dBm	NA
			10 kHz to 500kHz	-142dBm	NA
			500 kHz to 10MHz	-142dBm	-153dBm
			10MHz to 100MHz	-148dBm	-161dBm
			100MHz to 1GHz	-144dBm	-158dBm
			1GHz to 2.6GHz	-139dBm	-151dBm
			2.6GHz to 3.3GHz	-135dBm	-151dBm
			3.3GHz to 4.4GHz	-128dBm	-134dBm
			Amplitude unit	dBm, Watt	
	Absolute Accuracy (Ref. level < 0dBm)	±1.5dB Typical			
	Absolute Accuracy (0dBm<Ref. level < 10dBm)	±1.5dB			
	Relative Accuracy (Ref. level < 0dBm)	±0.25			
	Maximum Safe Input Level ( preamp off, 15dB Att)	+20dBm			
	DC Volt	±0.2V max			
3	Sweep	Zero Span Sweep Time	10 ms to 2 sec ( ±0.1% ) All other sweep times are estimates reported after sweep completes		
		Sweep Trigger	freerun, single, external		
		External Trigger	3.3V CMOS/TTL input		
4	Display	TRACE	3 Trace		
		DETECTOR	min, max, sample , avg ( power , voltage , log )		
		Marker	5 Marker		
		Marker function	peak, next peak, marker-center frequency		
		Audio Demodulation	AM & FM		
		Type	5.7" Color TFT-LCD 640*480 pixels		
		Display Resolution	640*480 pixels		
		Feature	SunLight Readable		
		KeyPad Back Light	ON/OFF		
5	Input	RF Connector	RF Signal IN, N type Female 50 Ohm		
		BNC External Timebase	10MHz in, BNC type Female		
		BNC Share	Self test, Sync out, Sweep Trigger IN, BNC type Female		
6	General Spec	Operating Environment	-10 °C to +50 °C < 95%		
		Humidity	< 95%		
		Storage Temperature	-20 °C to +60 °C		
7	Power	Power source	Li-ion Rechargeable Battery 6Cell(normal 7.4V / 7800mA)		
		Power Adaptor	AC-DC Adaptor DC 12V/3.5A		
		External DC			
8	Dimension	Size	160(W) X 263(H) X 61(D) mm		
9	Weight		1.6 kg		
10	Other	Speaker	0.5W 8 Ohm Speaker 1Ch		
		AF out			
		Interface	Storage (USB port), LAN (RJ-45 Port)		