



Abbreviated Specifications

Frequency

Frequency Range: 1Hz to 4.4GHz (RF Preamp Off); 500KHz to 4.4GHz (RF Preamp On)

Internal Frequency Reference Accuracy: ± 1 ppm

Counter Accuracy: 1Hz + timebase error

Resolution Bandwidth: 0.1Hz to 250KHz and 5MHz

Amplitude (RBW ≤ 100 KHz)

Range: +10dBm to Displayed Average Noise Level (DANL)

Absolute Accuracy: ± 1.5 dB (0dBm to DANL); ± 2.0 dB (+10dBm to >0dBm)

Displayed Average Noise Level: (dBm/Hz with 0dB input attenuation)

Frequency	RF Preamp Off	RF Preamp On
10Hz	-124 dBm	NA
100Hz to 10KHz	-130 dBm	NA
10KHz to 500KHz	-142 dBm	NA
500KHz to 10MHz	-142 dBm	-153 dBm
10MHz to 100MHz	-148 dBm	-161 dBm
100MHz to 1GHz	-144 dBm	-158 dBm
1GHz to 2.6GHz	-139 dBm	-151 dBm
2.6GHz to 3.3GHz	-135 dBm	-151 dBm
3.3GHz to 4.4GHz	-128 dBm	-134 dBm



Measuring Receiver

Operating Frequency 150KHz to 4.4GHz

FM Accuracy $\pm 1\%$ typical

AM Accuracy $\pm 1\%$ typical

Synchronous Level Detector ± 0.25 dBc ([+0dBm to -125dBm, 150KHz to 1GHz] and [+0dBm to -115dBm, 1GHz to 4.4GHz])

Calibration Interval: 1-year

Operating Temperature

0°C to +70°C (Standard); -40°C to +85°C (Option-1)

Optional Accessories (not included)

- 1) 20dB Fixed Attenuator, Mini Circuits Part # VAT-20+
- 2) DC Block, Mini Circuits Part # BLK-89+
- 3) SMA(m) to BNC(f) Adapter, Mini Circuits part# SM-BF50+
- 4) 3GHz RF Probe, p/n P-20A (made by Auburn Technology, www.auburntec.com, phone 316-529-4520)

Signal Hound™ Sweep Time Table

Values are approximate and may change.
Firmware version 1.21 Software version 1.41

"Slow Sweep" Mode, 200 Hz - 200 KHz span					
SPAN	RBW	Sweep Time Image Suppress ON Realtime OFF	Sweep Time Image Suppress OFF Realtime OFF	Sweep Time Image Suppress ON Realtime ON	Sweep Time Image Suppress OFF Realtime ON
200 Hz	2.5 Hz	3.4 sec	1.8 sec	3.4 sec	1.6 sec
500 Hz	6.3 Hz	4.7 sec	2.4 sec	1.4 sec	0.7 sec
1 KHz	13 Hz	1.4 sec	0.7 sec	0.8 sec	0.4 sec
2 KHz	25 Hz	1.4 sec	0.7 sec	0.47 sec	0.19 sec
5 KHz	62 Hz	1.4 sec	0.7 sec	0.30 sec	94 msec
10 KHz	123 Hz	1.2 sec	0.55 sec	0.22 sec	78 msec
20 KHz	267 Hz	0.7 sec	0.35 sec	0.19 sec	60 msec
50 KHz	533 Hz	500 msec	235 msec	172 msec	47 msec
100 KHz	1.6 KHz	440 msec	220 msec	172 msec	40 msec
200 KHz	3.2 KHz	250 msec	80 msec	172 msec	40 msec

"Fast Sweep" Mode 201 KHz - 200 MHz span		
SPAN	RBW	Sweep Time ⁽¹⁾
500 KHz	6.5 KHz	125 msec
1 MHz	13 KHz	140 msec
2 MHz	25 KHz	150 msec
5 MHz	50 KHz	190 msec
10 MHz	100 KHz	270 msec
20 MHz	100 KHz	350 msec
50 MHz	100 KHz	540 msec
100 MHz	250 KHz	840 msec
200 MHz	250 KHz	1.5 sec

"Broadband" Mode		
SPAN	RBW	Sweep Time
500 MHz	5 MHz	110 msec
1 GHz	5 MHz	170 msec
Start: 150 MHz Stop: 4.4 GHz	5 MHz	660 msec
FULL SPAN ⁽²⁾	5 MHz	1.7 sec

- **Note 1:** Image suppression ON/OFF does not affect sweep time in Fast Sweep mode
- **Note 2:** Full span includes 0 - 150 MHz in "Fast Sweep" mode, 150 MHz - 4.4 GHz in "Broadband" mode.