



SIGNALHAWK™ SPECTRUM ANALYZER

MODEL SH-36S: 100 KHZ TO 3.6 GHZ

High Performance in a Hand-Held Spectrum Analyzer:

- Fast, Accurate, and Sensitive: -135 dBm Noise Floor
- Large High-Resolution Display: Full Color, Indoor/Outdoor Viewable
- Easy-to-Use: Intuitive Menus, One-Button Setup, and On-Board Help
- Long Battery Life: 5.5 Hours per Charge, Field Replaceable Battery
- Rugged: Drop Tested per Military and European Standards
- USB Connectivity: USB Drive Stores 90,000 Traces

Worldwide Applications: Cellular, PCS, DCS, 2 G, 3 G, CDMA, cdmaOne, CDMA 2000, 1x, 1x EV-DO, GSM, GPRS, EDGE, UMTS, HSDPA, W-CDMA, TDMA, AMPS as well as 802.11, Bluetooth, Broadcast, Emergency, Fire, GPS, HDTV, IBOC, Microwave, NPSPAC, Paging, Police, Private, Project 25, Public Safety, Tactical Military, Telematics, Tetra, Trunking, Utilities, WLAN and WLL.

Spectrum Analysis: Analyzes radio frequency spectrum. Measures intended and interfering signals. Allows setup of parameters such as frequency, amplitude, and markers. Graphically displays signal amplitude vs. frequency and saves traces.



Performance Specifications:

Frequency Range	100 kHz to 3.6 GHz
Frequency Resolution	1 Hz
Frequency Uncertainty	± 1 ppm
Reference Aging	± 1 ppm / year
Temperature Drift	± 1 ppm / °C
Spectral Purity	-85 dBc @ 30 kHz
Sweep Time	2 s, full span; 1 ms, zero span
Resolution Bandwidth	100 Hz to 1 MHz RBW
Video Bandwidth	10 Hz to 300 kHz VBW
Amplitude Accuracy	± 1.0 dB typ, ± 1.5 dB max
Dynamic Range	66 dB, intermod-free
Noise Floor	-135 dBm DANL
Attenuator	0, 10, 20, or 30 dB; internal
Pre-Amplifier	+24 dB gain, internal

Display	8.4", SVGA, 800 x 600 pixels
Data Points	705 displayed
Single Button Measurement	OBW, Channel Power, ACPR, Field STR., AM/FM Demod, C/I
Power Meter	External Sensors, Optional
Win CE Viewers	Word, Excel, PPT, PDF, Image
Battery	5.5 hour, field replaceable
Drop Test	1 meter per EN 61010-1
Transit Drop Test	10 drops per MIL-PRF-28800F
CE Compliant	YES
RF Input, N(F)	+20 dBm (100 mW) max
USB Connectivity	PC; USB drive and accessories
Size	11.5" x 10.5" x 3.8"
Weight	7.8 lbs (3.5 kg) with battery



Power Meter Option: SignalHawk™ is compatible with Models 5012, 5010B, 5011 and 5011-EF external power sensors. These sensors provide ± 5% (± 0.2 dB) forward average power accuracy. Other measurements include reflected power, VSWR, return loss (dB), peak power, burst average power, crest factor, and CCDF.



RF Measurement and Management in Your World



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Standard Accessories:

Model	Description
7002A220-1	Soft Carry Case
920-SH36-OPS	Operators Manual
920-SH36-REF	Reference Card
5A2653-10	USB Cable, 10 ft, USB A (M) to USB B (M)
5A2264-09-MF-10	RS-232 Cable, 10 ft, 9-pin, (M) to (F)
5A2743-1	AC Adapter/Charger
4421-055	AC Line Cord for AC Adapter/Charger
5A2238-3	Car Adapter/Charger
5A2720-2	Internal Li-Ion Battery, Field Replaceable
7002A210	PC Tool Software and User Manual CD
5A2745-1	USB Drive 256 MB, Win CE Compatible
5A2746-1	Headphones
7002A221	Connector Cover

Spare standard accessories are available as optional accessories.

Optional Accessories:

Model	Description
7002A225-1	Hard Transit Case, Watertight, Crushproof, Dustproof
920-7002A300	User Manual
USB-MOUSE	USB Mouse, Ultra-Portable, Optical
USB-HUB	USB Hub, 4-Port, Micro
ANT-100	Field Strength Antenna, 136 to 221 MHz, SMA(M)
ANT-400	Field Strength Antenna, 400 to 512 MHz, SMA(M)
ANT-800	Field Strength Antenna, 824 to 894 MHz, SMA(M)
ANT-900	Field Strength Antenna, 890 to 960 MHz, SMA(M)
ANT-1800	Field Strength Antenna, 1710 to 1880 MHz, SMA(M)
ANT-1900	Field Strength Antenna, 1850 to 1990 MHz, SMA(M)
ANT-2400	Field Strength Antenna, 2400 to 2500 MHz, SMA(M)
100-SA-MFN-40	Attenuator, 100 W, 40 dB, N(M) to N(F), 2.4 GHz
50-A-MFN-30	Attenuator, 50 W, 30 dB, N(M) to N(F), 4 GHz
25-A-MFN-30	Attenuator, 25 W, 30 dB, N(M) to N(F), 4 GHz
10-A-MFN-30	Attenuator, 10 W, 30 dB, N(M) to N(F), 4 GHz
5-A-MFN-20	Attenuator, 5 W, 20 dB, N(M) to N(F), 4 GHz
2-A-MFN-20	Attenuator, 2 W, 20 dB, N(M) to N(F), 4 GHz

Note: See user manual for complete specifications.

Optional External Power Sensors:

Model	Description
5012	Wideband Power Sensor, 350 MHz to 4 GHz, 150 mW to 150 W Avg, 400 W Peak. Measures forward and reflected average, VSWR, return loss (dB), peak, burst average, crest factor and CCDF. Forward average power accuracy is 4% (0.2 dB).
5010B	Directional Power Sensor, 2 to 2700 MHz, 100 mW to 10 kW, requires elements. Measures forward and reflected average, VSWR, return loss (dB), and peak. Forward average power accuracy is 5% (0.2 dB).
5011	Terminating Power Sensor, 40 MHz to 4 GHz, 10µW to 10 mW (-20 dBm to +10 dBm). Measures forward average power. Accuracy is 5% (0.2 dB).
5011-EF	Terminating Power Sensor, 40 MHz to 12 GHz, 10µW to 10 mW (-20 to +10 dBm) Measures forward average power. Accuracy is 5% (0.2 dB).

Optional Test Cables and Adapters:

Model	Description
TC-MNFN-1.5	Test Cable, 1.5 m, N(M) to N(F)
TC-MNFN-3.0	Test Cable, 3.0 m, N(M) to N(F)
TC-MNMN-1.5	Test Cable, 1.5 m, N(M) to N(M)
TC-MNMN-3.0	Test Cable, 3.0 m, N(M) to N(M)
TC-MNFE-1.5	Test Cable, 1.5 m, N(M) to 7/16 DIN(F)
TC-MNFE-3.0	Test Cable, 3.0 m, N(M) to 7/16 DIN(F)
TC-MNME-1.5	Test Cable, 1.5 m, N(M) to 7/16 DIN(M)
TC-MNME-3.0	Test Cable, 3.0 m, N(M) to 7/16 DIN(M)
PA-MNME	Adapter, N(M) to 7/16 DIN(M)
PA-FNME	Adapter, N(F) to 7/16 DIN(M)
PA-MNFE	Adapter, N(M) to 7/16 DIN(F)
PA-FNFE	Adapter, N(F) to 7/16 DIN(F)
4240-550	Adapter Kit, 7/16 DIN
4240-500-1	Adapter, N(F) to N(F)
4240-500-6	Adapter, N(M) to N(M)
4240-500-10	Adapter, N(M) to SMA(F)

Recommend N(M) to SMA(F) adapter (model 4240-500-10) for field strength antennas.
Note: See user manual for complete specifications.