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Data Sheet

August 15, 2026

BIRD

Bird SH-36S SignalHawk Spectrum Analyzer

Bird Modular Instrument Chassis. Frequency Range: ** 100 kHz - 3.6 GHz, Dynamic Range: ** 66 dB.



MODEL

Bird SH-36S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SH-36S

LISTING

<https://aumictechlabs.com/products/sh-36s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Bird SH-36S is a versatile spectrum analyzer designed for RF and wireless system installation and maintenance. This compact instrument offers a range of functionalities for analyzing radio frequency spectrum, measuring intended and interfering signals, and diagnosing system performance issues. It is suitable for various applications including cellular, PCS, DCS, 2G, 3G, and 4G technologies. Technical Specifications * Model Name: SH-36S Frequency Range: 100 kHz - 3.6 GHz Noise Floor: -135 dBm Dynamic Range: 66 dB Amplitude Range: +20 dBm (100 mW) max. for Spectrum Analyzer Resolution Bandwidth (RBW): 100 Hz to 1 MHz RF Input Impedance: 50 ohms, nominal RF Input VSWR: 1.8:1 typical, 2.0:1 maximum (SH-36S-PC specifications) Max DC Input: ± 50 V Max RF Input (Damage Level): +30 dBm for 30 seconds Display: 8.4-inch Storage: USB Drive Stores 90,000 Traces Battery Life: 5.5 hours per charge, field-replaceable battery Interfaces and Connectivity * Connectivity: USB connectivity Remote Communication: TCP/IP, Windows Remote Desktop Direct Communication Method: USB Minimum Network Bandwidth for Remote Connection: 28.8 Kbps Connectors (Rack-Mount Model SH-36S-RM): * BNC(F) external trigger input * 2.1mm DC jack for external power supplies * USB Type B for PC

connection * Pass-Thru LAN Connector * Host Indicator LAN Connector * RS-232 Connector * LAN Connector * AC Power Connector Input Connector (SH-36S-PC): Precision N-F Physical Characteristics * Housing (PC/Rack Mount Models): PC/ABS housing, rubber over-mold, and shock-mounted hardware Dimensions (Rack-Mount Model): 2 RU (Rack Units) Functionality and Features * Core Functionality: Analyzes radio frequency spectrum, measures intended and interfering signals, allows setup of parameters such as frequency, amplitude, and markers. Display Features: Graphically displays signal amplitude versus frequency, saves traces. Full color, indoor/outdoor viewable display. Waterfall display. Ease of Use: Intuitive menus, one-button setup, and on-board help. Ruggedness: Drop tested per military and European standards. Measurement Capabilities: Includes measurements such as Return Loss, VSWR, Match, Cable Loss, Distance to Fault, Insertion Loss, Gain, and DC Bias Current Draw. FCC Compliance Masks: Built-in Compatibility: Compatible with external power sensors such as models 5012, 5010B, 5010T, 5011, and 5011-EF. Software and PC Interface * PC Tool: A PC tool function is available for transferring readings from the SignalHawk to a computer and back. Operating System Compatibility (for PC connection): Microsoft Windows XP, XPpro, Vista, or 7 Driver Installation: Required for each distinct SH-36S-PC or SH-36S-RM connected to the computer. Why Choose Aumictech for Bird SH-36S? At Aumictech, we specialize in supplying high-end RF test and measurement equipment. Whether you need precise spectrum analysis, reliable signal interference measurement, or efficient system diagnostics, our team ensures the Bird SH-36S delivers maximum performance for your application.

SH36S Characteristics / Specifications

PARAMETER	VALUE
Model	SH-36S
Instrument Type	Handheld spectrum analyzer
Frequency Range	100 kHz to 3.6 GHz
Frequency Resolution	1 Hz
Frequency Uncertainty	plus or minus 1 ppm
Reference Aging	plus or minus 1 ppm per year
Temperature Drift	plus or minus 1 ppm per°C Spectral Purity: -85 dBc at 30 kHz
Sweep Time	2 s full span; 1 ms zero span
Resolution Bandwidth	100 Hz to 1 MHz
Video Bandwidth	10 Hz to 300 kHz
Amplitude Accuracy	plus or minus 1.0 dB typical, plus or minus 1.5 dB maximum
Dynamic Range	66 dB intermod-free
Noise Floor	-135 dBm DANL
Internal Attenuator	0, 10, 20, or 30 dB
Pre Amplifier	+24 dB gain internal
Display	8.4 inch SVGA 800 × 600 pixels
Data Points	705 displayed
Rf Input	N female, +20 dBm (100 mW) maximum
Battery	5.5 hour, field replaceable
Size	11.5 in x 10.5 in x 3.8 in
Weight	7.8 lb (3.5 kg) with battery
Drop Test	1 meter per EN 61010-1
Transit Drop	10 drops per MIL-PRF-28800F
Usb	PC, USB drive, and accessories
Single Button Measurements	OBW, channel power, ACPR, field strength, AM/FM demod, C/I

PARAMETER	VALUE
Manufacturer	Bird Technologies
Literature	Bird SignalHawk SH-36S datasheet 616-SigHawkDS
Family	Bird SignalHawk
Documentation Type	OEM SH-36S datasheet
Brand Lineage	Bird
System Role	handheld spectrum analyzer
Bandwidth	100 Hz to 1 MHz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
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Brand Lineage	Bird
System Role	handheld spectrum analyzer

Notes

From Bird SignalHawk SH-36S datasheet (100 kHz-3.6 GHz, 1 Hz, plus or minus 1 ppm, -135 dBm DANL, 66 dB, 8.4 inch SVGA, 5.5 h, 7.8 lb, N(F) +20 dBm). Power-sensor option accuracy is on the 5010/5011/5012 accessory table.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.