



Bird Technologies®

# SiteHawk Analyzer

## SK-4000-TC

- ▶ Easy to operate and field ready for first-time, occasional and experienced users.
- ▶ FDR (Frequency Domain Reflectometry) measurement method results in a highly reliable assessment of the health of critical components in your system; ultimately providing a “heads-up” before a failure occurs.
- ▶ Fault location or DTF mode indicates VSWR or Return Loss levels at each point along the cable and antenna system length.
- ▶ Cable Loss function measures insertion loss of the cable system over a given frequency range.
- ▶ One unit covers the entire 85-4000 MHz range!
- ▶ USB communication port for connection to storage device and battery charging.
- ▶ Color display is clearly visible in direct sunlight.

### MEASUREMENT CAPABILITY

Fast swept measurement.

Seven user-selectable trace capture options:  
51,101,201,401,801,1601 or 3201 data points per sweep.

Adjustable pass/fail limit with visual indicator.

16GB of internal flash memory for storing thousands of traces and setups.

X and Y scales and units are user adjustable.

Six markers for either direct or difference measurements.

Can also measure relative to limit line or recalled trace.

Measurement hold to temporarily store a trace.

Frequency can be set using either Start/Stop or Center/Span frequencies.

Measurement can be Return Loss [dB], Cable Loss [dB],  
VSWR [ratio],DTF VSWR[ratio] or DTF Return Loss [dB].

Measurement units can be Return Loss [dB] or VSWR [ratio].

### APPLICATIONS

Worldwide Cellular, PCS/DCS, CDMA, GSM, LTE Protocols,  
3G, Broadcast, Government, Tactical Military, Microwave,  
Paging, Public Safety, Trunking, WLAN, TETRA, WLL.

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### SPECIFICATIONS

<b>Frequency Range</b>	85 to 4000 MHz
<b>Frequency Accuracy</b>	$\pm 2.5 \times 10^{-6}$
<b>Frequency Resolution</b>	1kHz
<b>Output Power</b>	-10dBm
<b>Reflect Amplitude Accuracy</b>	
-15 dB to 0 dB	0.4 dB
-25 dB to -15 dB	1.5 dB
-35 dB to -25 dB	4.0 dB
<b>Trace Noise Magnitude (IFBW 1kHz)</b>	0.02 dB rms
<b>Measurement Speed</b>	0.25 ms / data point
<b>Measurement Points</b>	51 to 3201
<b>Measure Bandwidth</b>	100 Hz to 30kHz
<b>Temperature Stability</b>	0.01 dB/°F 0.02 dB/°C
<b>Return Loss Measurement Range</b>	0 dB to -60 dB
<b>Resolution</b>	0.01 dB
<b>VSWR Measurement Range</b>	1.0 to 65.0
<b>Cable Loss Measurement Range</b>	0 dB to 30 dB
<b>DTF Range</b>	0 to 5000 (ft) 0 to 1500 (m)
<b>Test Port Connector Impedance</b>	N-type, Female 50 ohms
<b>Connector</b>	Micro USB B, USB 2.0
<b>Languages</b>	English, Chinese
<b>Recommended Calibration Interval</b>	1 year

<b>Dimensions ( LxWxH )</b>	7.2 x 3.8 x 1.9 (in) 182 x 95 x 46.5 (mm)
<b>Weight</b>	1.98 (lbs) 0.9 (kg)
<b>Maximum Input Voltage</b>	50V
<b>Operates In Temperature</b>	14°F to 131°F -10°C to +55°C
<b>Storage Temperature</b>	-40°F to 176°F -40°C to +80°C
<b>Battery Charging Temperature</b>	32°F to 95°F 0°C to +35°C
<b>Altitude</b>	Up to 5000 (ft) Up to 1500 (m)
<b>Humidity</b>	95±5° max (non-condensing)
<b>Power Measurement</b>	No
<b>Storage Capacity</b>	Thousands of Traces and Setups
<b>Immunity to Interfering Signals</b>	+13dBm
<b>CE</b>	EMC – Standard EN 61326-1 :2006 Safety – Standard EN 61010-1 :2001 RoHS – Directive 2011/65/EU
<b>Battery</b>	Lithium-ion rechargeable 4 Hrs Typical Operating Time
<b>Battery Charge Time</b>	8 Hrs for Full Charge



### STANDARD ACCESSORIES PROVIDED

<b>5B2229-510H-3</b>	AC Adapter (5 Vdc Output)
<b>7002A228-1</b>	Hard Carrying Case
<b>5B2653-3R5NL4</b>	USB Interface Cable, Power, 1 meter long
<b>5A2970-16-60C</b>	RF Cable, 1.5 meter long
<b>920-SK-4000</b>	Instruction Manual
<b>7002A219-1</b>	Soft Carrying Case
<b>5A2745</b>	USB Drive
<b>5B2653-0R4NL5</b>	USB Interface Cable, 15 cm long
<b>5A5002-6</b>	International Adapter

### OPTIONAL ACCESSORIES

<b>CAL-MN-C</b>	Calibration Combo
<b>PA-MNFE</b>	Adapter, N(m) to 7-16 DIN(f)



30303 Aurora Rd. | Solon, OH 44139 | 866.695.4569 | [www.bird-technologies.com](http://www.bird-technologies.com)

