SiteHawk™
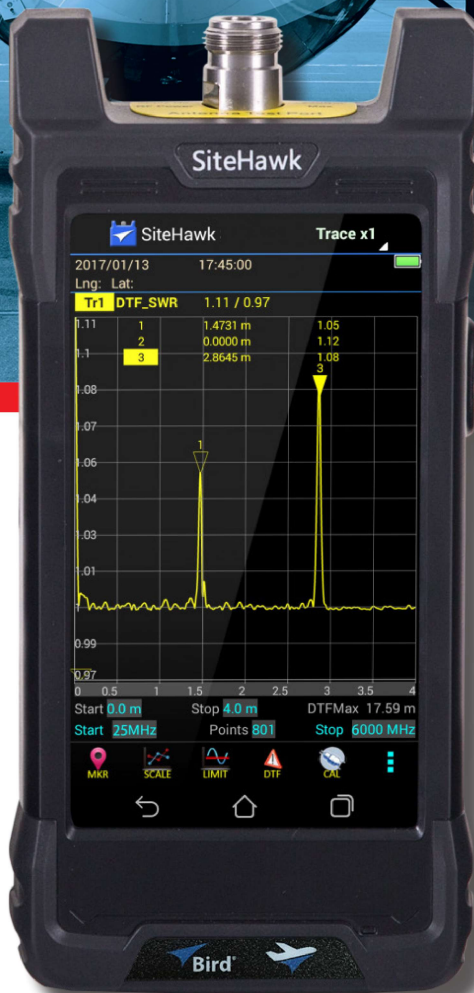# **AVIATION**
TEST KIT

QUICKLY DIAGNOSE & RESOLVE COMMUNICATION SYSTEM PROBLEMS

Bird's SiteHawk™ Aviation Test Kit is the result of combining the proven antenna and cable testing functionality of the SiteHawk handheld analyzer, Bird's wideband power sensor – designed specifically to fit avionics power measurement needs, and all necessary adapters and cabling into a single rugged case. In addition, Bird's easy to use aviation testing software will allow anyone on the maintenance team to test and verify all the radio systems in your fleet.
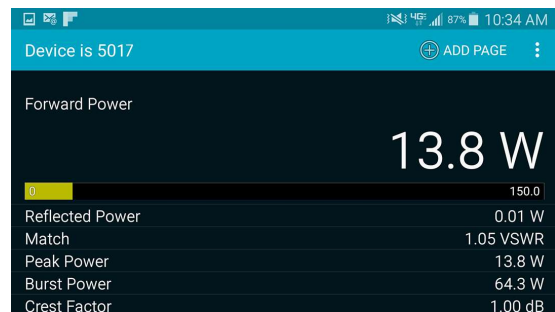
Distributed By:

BARFIELD

SITEHAWK-AV SPECIFICATIONS

Frequency Range	1 MHz - 6000 MHz
Frequency Accuracy	±2.5×10-6
Frequency Resolution Setting	1 kHz
Output Power	-10dBm, Typical
Reflect Amplitude Accuracy **–15 dB to 0 dB** **–25 dB to –15 dB** **–35 dB to –25 dB**	±0.4 dB ±1.5 dB ±4.0 dB
Trace Noise Magnitude (IFBW 1kHz)	0.02 dB rms
Measurement Speed	1ms / data point
Measurement Points	51 to 3201
Measure Bandwidth	100 Hz to 30kHz
Temperature Stability	0.01 dB/°F (0.02 dB/°C)
Return Loss Measurement Range **Resolution**	0 dB to -60 dB 0.01 dB
VSWR Measurement Range	1.0 to 65.0
Cable Loss Measurement Range	0 dB to 30 dB
DTF Range	0 to 5000 (ft) (0 to 1500 (m))
Test Port Connector **Impedance**	N-type, Female 50 ohms
Connector	Micro USB B, USB 2.0
Dimensions (LxWxH)	7.7 x 3.6 x 2.4 in. (195 x 90 x 60 mm)
Weight	1.98 lbs. (0.9 kg)
Maximum Input Voltage	50 V
Operating Temperature	14° to 131° F (–10° to +55° C)
Storage Temperature	–40° to 176° F (–40° to +80° C)
Battery Charging Temperature	32° to 95° F (0 to +35° C)
Storage Compacity	Thousands of Trace and Setups
Immunity to Interfering Signals	+13dBm
CE **EMC** **Safety**	Standard EN 61326-1:2006 Standard EN 71010-1:2001
Battery **SK-4500-TC**	Lithium-ion rechargeable 10 Hrs Typical Operating Time
Battery Charge Time	5 Hrs Full Charge
Power Measurement	Yes
Compatible With	For a complete list of compatible sensors see Bird's RF Meter Page http://bit.ly/rfmeterapp2

WIDEBAND POWER SENSOR SPECIFICATIONS

Frequency Range	25 MHz-1.0 GHz / 500 mW-500 Watts
Connector	N Female (Both)
Power Supply USB Port DC Input Connector	 Less than one low-power USB load 7-18 VDC at less than 0.1A
Impedance	50 Ohms (nominal)
Weight	1.2 lb. maximum
Dimensions HxWxD **[inches (mm)]**	4.8" x 4.6" x 1.3" (122 mm x 117 mm x 33 mm)
Data Logging	Requires 5000-XT, VPM3 or Bird RF Meter App
Operating Temps °C(°F)	-10° to 50°C (+14° to + 122°F)
Storage Temps °C(°F)	-40° to + 80°C (-40° to +176°F)
Mechanical Shock & Vibration	IAQ MIL-PRF-28800F class 3
CE	EMC EN 61326-1-2006
Power Range	500mW - 500 Watts Avg / 1300 Watts Peak
Insertion VSWR	<1.05
Insertion Loss	<0.05 dB
Directivity	28 dB up to 100 MHz, 30 dB from 100 to 1300 MHz
Interface	
DPM	DB9 proprietary interface
PC Interface (1)	RS-232, 9600 Baud, no parity, 8 data bits, 1 stop bit, DB9
PC Interface (2)	USB 2.0 Type B

Device is 5017   ADD PAGE

Forward Power

13.8 W

0	150.0
Reflected Power	0.01 W
Match	1.05 VSWR
Peak Power	13.8 W
Burst Power	64.3 W
Crest Factor	1.00 dB

- Includes Bird RF Meter App.
- Units cover frequency ranges of 1-6000 MHz.
- USB communication port for connection to storage device and battery charging.

CALIBRATION COMBO SPECIFICATIONS

Frequency	DC - 6 GHz
Resistance	50 Ohm
Average Power	≤ 1 W
Connectors	N (m)
Load Return Loss	≤ –38 dB
Load VSWR	≤ 1.025
Open Phase Deviation	≤ ± 0.6°
Short Phase Deviation	≤ ± 0.6°
Operating Temperature	49° to 95° F (15° to 35° C)
Storage Temperature	–40° to 167° F (–40° to 75° C)

TERMINATION SPECIFICATIONS

Power Rating	25 W
Frequency Range	DC - 4 GHz
VSWR DC - 1 GHz	1.10:1 max.
VSWR 1 GHz - 4 GHz	1.15:1 max.
Impedance	50 Ohms, Nominal
Temperature Range	-40° to +40° C (-40° to 104° F)
Product Type	Dry (Convection-Cooled)
Operating Position	Any
Connector	N-type, male
Finish	Black Anodized
Dimensions	4.7" L x 2.3" Dia.(119.4 x 58.5 mm)
Weight	7 oz. (198g)

Quickly and easily connect to all of your aircraft's RF Systems to verify cables and antenna.

HARD CASE SPECIFICATIONS

Exterior (L x W x D)	15.27 x 12.13 x 6.69 (38.8 x 30.8 x 17 cm)
Body	Polypropylene
Temperature Range	–40° to +99° C (–40° to 210° F)
Weight Without Foam	4.5 lbs
Certifications	IP67, MIL-STD, 810F, 512.4, Drop Tested Per MIL-STD-3010C Method 5007

ADAPTER KIT SPECIFICATIONS

Exterior (L x W x D)	6.5 x 4.63 x 1.69 (165.1 x 117.6 x 42.9 mm)
Connectors	(1) Male, (1) Female, Type N (1) Male, (1) Female, Type BNC (1) Male, (1) Female, Type TNC (1) Male, (1) Female, Type UHF (1) Male, (1) Female, Type SMA (5) 50 Ohm couplers

STANDARD ACCESSORIES PROVIDED

SK-TP-112	Stylus
SK05T-1200300Z	AC Adapter (12 Vdc Ouput)
5000-035	Hard Carrying Case
4240-500-23	Adapter, N(m) – SMA(m)
4240-500-10	Adapter, N(m) – SMA(f)
4240-443	Adapter, Avionics
4240-444	Adapter, Avionics
5A2970-16-120B	RF Cable, 10 feet long
5A2745-1	USB Drive
SK-CONN-OTG-2	USB Adapter

Clearly confirm whether antenna and/or cable lines require replacement with on-screen indicators.