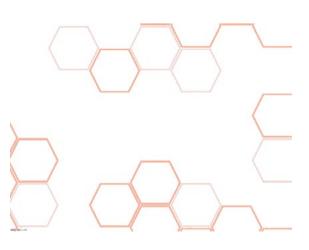
Transcom Instruments Product Brochure

# TRANSCOM INSTRUMENTS Product Brochure







### SiteHawk Handheld Cable & Antenna Analyzer



### **Overview**

SiteHawk is the world first hand-held intelligent cable and antenna analyzer powered by Android operating system and high-resolution touch screen. It is small, lightweight and easy to carry. SiteHawk can be used for testing the matching of the cable and antenna system, accurately evaluating system performance by measuring return loss, voltage standing wave ratio, cable loss and other parameters, and measuring the RF power with the optional ThruLine power sensor.

SiteHawk is preferred for system installation, maintenance and fault location in the mobile communication system, national defense communication and broadcast industry. Meanwhile, SiteHawk can be applied in cable production and inspection, ship communication testing, public communication security, semiconductor production and calibration and other RF related area. Use of easy-to-operate full-screen touch HMI guarantees its high-precision and repeatable tests can be performed to meet various communication test needs.

### **Key Facts**

• Support wider range of test frequency, i.e. 300kHz-6000MHz, and cover most of application spectrum

• The world smallest and lightest (0.9kg) instrument allows one-hand operation

• High measurement speed, up to 1ms/point and immediate display of measurement result

• Maximum 1500 meters DTF Range, SiteHawk is suitable for error checking and troubleshooting of long-distance cable system

• Built-in battery can be constantly operating for 10 hours, and additional portable battery can be applied to further extend battery capacity

• High frequency resolution (1kHz), simultaneous sweeping of 3201 data points at the same time, and high frequency accuracy:  $2.5 \times 10^{-6}$ 

• HD color LCD screen, visible in sunlight and suitable for field work

• Built-in 16GB memory: measurement data can be shared via the WIFI cloud or recorded in the USB flash disk

### Innovative Features & Benefits



### **Excellent engineering instrument**

- Industrial grade design
- Engineering accessories
- Ergonomic instrument
- Powerful battery capability

### Intelligent platform and cloud application

- Android operating system
- Mass applications
- Data synchronization and cloud analysis
- GPS positioning function

#### Field testing functions

- Reflection characteristic measurement
- Single-port cable loss measurement
- DTF measurement

#### **Flexible test solutions**

- Feeder and antenna system maintenance/installation
- RF power measurement
- Indoor distribution test
- Semiconductor calibration load/RF cable test
- Trace background analysis

## Solution Highlights





#### **Excellent engineering instrument**

SiteHawk' s excellent ergonomic design provides the constant guarantee for field operators in routine maintenance and in-depth fault analysis. Accurate measurement results can be obtained in a short time under any condition.

• Industrial grade design

By using integrated ergonomic design, SiteHawk is dust and water proof, and supports stable measurement in harsh environment. Temperature stability is up to 0.01dB/°C. SiteHawk is the smallest and lightest cable and antenna analyzer in the world, with the weight of only 0.9Kg including the battery.

• Engineering accessories

SiteHawk is provided with waterproof suitcase and portable soft bag, where the host and all accessories can be assembled to facilitate carrying.

• Ergonomic design

SiteHawk has anti-slip rubber protective cover helps to be held more comfortably. With build-in gravity sensor, SiteHawk can be easily operated as a regular cellphone that provide convenient testing environment.

#### • Powerful battery capability

SiteHawk built-in battery supports 10 hours continuous operation. With external portable charger or battery, SiteHawk provides user a long and stable working environment.



#### Intelligent platform and cloud application

SiteHawk is powered by Android operating system. Its operation interface is simple and user-friendly. Various kinds of professional software can be installed to expand the instrument performance. SiteHawk also supports external storage devices, Bluetooth communication and WIFI communication. Data can be flexibly shared via the built-in large-capacity memory and Internet "cloud" application. Data and cloud server can be synchronized and analyzed. With the built-in GPS function, location information can be recorded and tested, achieving the truly "integrated" test.

#### • Android operating system

SiteHawk is powered by Android system and has a full-screen touch interface. User-friendly interface is easy to operate and supports intelligent operations such as stretching.

#### •Mass applications.

SiteHawk can be installed with multiple professional APPs to achieve various test functions and enhance the extension performance.

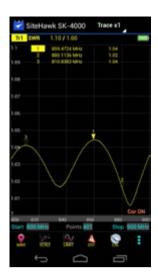
#### • Data synchronization and cloud analysis

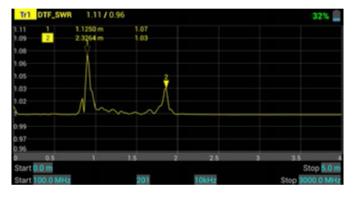
With16GB memory, SiteHawk is able to save thousands of screenshots or traces. Test records can be transmitted by Bluetooth, USB or WIFI cloud to synchronize and analyze data.

#### • GPS positioning function

GPS option allows test and evaluation become visible. By recording the longitude, latitude, altitude and other location information, wrong analysis and measurement missing of positioning records of the measurement site can be avoided, which ensuring the integrity of engineering test.







#### **Field testing functions**

SiteHawk has all functions of field test: cable loss measurement, VSWR measurement, return loss measurement, DTF VSWR measurement and DTF return loss measurement.

#### • Reflection characteristic measurement

SiteHawk can be used for measuring reflection characteristic parameters based on frequency-domain reflection. Reflection characteristic parameters indicate specific matching of the antenna, feeder and other passive devices/systems. Highaccuracy measurement results are shown in the VSWR or return loss form.

#### • Single-port cable loss measurement

The cable insertion loss of the RF system has significant influence on power transmission characteristics. Poor cable loss also affects the overall matching of the antenna system. SiteHawk supports single-power cable loss measurement. With the built-in cable list, true results can be automatically calculated according to the rated attenuation of each cable, which is conducive to overall evaluation of the RF system.

### • DTF VSWR/return loss measurement

The DTF test is carried out to determine the specific positions of nonconforming cables, components and connectors of the cable system, in the form of VSWR or return loss change along with the distance, in order to eliminate faults and risks.

#### Flexible test solutions

SiteHawk can be widely applied in various RF measurement occasions. It can also provide flexible test solutions when combined with other RF test instruments.

#### • Feeder and antenna system maintenance/installation.

When impedance of the antenna, feeder and other passive devices are not matched with each other or the impedance of the feeder and transmitter are not matched with each other, reflection will be caused as a result of high-frequency energy. In the case of poor return loss/VSWR, the transmitter will be damaged, the coverage area of the base station will be reduced, the call drop rate and blockage will be increased, and the data traffic rate will be decreased. SiteHawk is able to reflect actual results of antenna and feeder VSWR/return loss measurement, to facilitate prompt processing.

#### • RF power measurement

For the antenna and feeder system, SiteHawk supports accurate measurement of RF power with the optional RF power meter. The actual RF energy in the current position of the system can be accurately obtained by means of through type power measurement, to evaluate actual operation of the system.

(Power sensors include Bird 7020, 7022, 5012D, 5014, 5015, 5015-EF, 5016D, 5017D, 5018D and 5019D).

#### Indoor distribution test

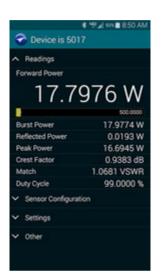
For the indoor distribution system, SiteHawk can examine the reception and transmission states when combined with SpecMini spectrum analyzer. The built-in signal source of SiteHawk can be used as a substitute of indoor distribution RF signal source. At the same time, relevant parameters such as the terminal channel power can be measured by the spectrum analyzer. SiteHawk is able to locate and measure faults of the indoor distribution system to effectively solve the problem of indoor distribution layout.

• Semiconductor calibration load/RF cable test.

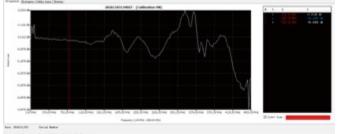
If the impedance of the cable system does not match in the semiconductor calibration process, the transmitter output and semiconductor production quality will be affected. SiteHawk can be applied to rapidly and accurately evaluate the RF cable and load.

#### • Trace background analysis

SiteHawk has the powerful function of field test. SiteHawk software in PC supports playback and analysis of test curves saved in the S1P format, with no upper limit of traces on one screen. Using SiteHawk, the laboratory-level accurate analysis can be truly achieved.







## Specifications

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Prequency and any set of the set of th		SK-200-TC	300kHz-200MHz
jacon (2000)     Hitr.4500HP       prequency Accuracy     25.5 1 <sup>6</sup> requency Accuracy     108m       Othothowar     6.4000, SK-6000     6.40m       Action (2000)     6.40m     6.40m       Refer Amplitude Accuracy     1580 to 1580     6.40m       Massement Speed     16.201     5.40m       Measurement Speed     1000 SK-600,		SK-4000-TC	85MHz-4000MHz
requency Acturaty12.5 10°	Frequency Range	SK-4500-TC	1MHz-4500MHz
Output PowerSk4000, Sk-8000 - SdBm		SK-6000-TC	20MHz-6000MHz
Output Power     Sic 20     - SdBn       Sic 20     - SdBn     - SdBn       Reflect Amplitude Accuracy     - SdB to 3 dB     - SdB to -1586     - SdB to -258B     -	Frequency Accuracy	±2.5× 10 <sup>-6</sup>	
jk200     -568n       ARGRetAmplitude Accuracy     -1548 to 458 to 1548 to 4548       Agebra 258 to -1548     -4.04       Tace Noise Magnitude (IFBW 1kHz)     0.0248 rms       Measurement Speed     1014/3 - JUN       Targerature Stabability     0.0348 rms       Targerature Stabability     0.018/8 - JUN       Targerature Stabability     0.018/8 rms       Resourcement Range     0.018/8 rms       Resourcement Range     0.018 rms       Stabability     0.018 rms       VSW Resourcement Range     0.018 rms       Calse Stabability     0.018 rms       VSW Resourcement Range     0.018 rms       Calse Stabability     0.018 rms       VSW Resourcement Range     0.018 rms       Calse Stabability     0.10 so 500 rms       Stabability     0.10 so 500 rms       Calse Connector Impedance     Norsourcement Stabability       Cannector Impedance     Norsourcement Stabability       Range Connector Impedance     Norsourcement Stabability       Range Connector Impedance     Stabability       Range Connector Impedance     Stabability       Rang		SK-4000, SK-4500, SK-6000	-10dBm
Refet Amplitude Acuracy     -568 to -1568     1.58       -568 to -2568     4.08       Tace Noise Magnitude(IFBW 1kH2)     0.248 ms       Measurement Speed     150 - 320 ms       Masurement Speed     0.104/ F       Tampenture Stabalility     0.104/ F       Outday F     0.248/ C       Resolution     0.104/ F       Resolution     0.104/ F       Resolution     0.104/ F       VSW Measurement Range     0.104 - U       Calou Southeasurement Range     0.105 - U       Calou Southeasurement Range     0.105 - U       Canonetor Impedante     N=V=V=V=V       Calou Southeasurement Range     0.100 - U       Calou Southeasurement Range     0.100 - U       Canonetor Impedante     N=V=V=V=V       Calou Southeasurement Range     0.100 - U       Canonetor Impedante     N=V=V=V=V       Canonetor Impedante     N=V=V=V=V	Output Power	SK-200	-5dBm
idea     -368 or 236     4.08       Tace Noise Magnitude(IFBW 14k2)     0.248 rms		-15dB to 0 dB	0.4dB
Index loss Magnitude (IFBW 14Hz)0.02dB rmsMeasurement Speed1ms/data point.Measurement Points51 to 3201Temperature Stabelility0.01dB/ FOutB// F0.01dB/ FReturn Loss Measurement Range0.01dB	Reflect Amplitude Accuracy	-25dB to -15dB	1.5dB
Measurement Speed     Ims/data point.       Measurement Points     51 to 3201       Temperature Stabaility     0.01d8/ F       0.02d8/C     0.02d8/C       Return Loss Measurement Range     0.81 to 50.0018       Stabaility     0.01d8       VSWR Measurement Range     0.01d8       Cable Loss Measurement Range     0.01d8       Cable Loss Measurement Range     0.01d8       Temperature Stabaility     0.01d8       Temperature Stabaility     0.01d8       Cable Loss Measurement Range     0.01d8       Cable Loss Measurement Range     0.10 d8 to 30 d8       Temperature Stabaility     0.10 S500(ff)       Test Port Connector Impedance     N-type-Enable S0 ohms       Connector     Micro USB B.USB 2.0       Connector Impedance     N-type-Enable S0 ohms       Recommended Calibration Interval     3 year       Dimensions(LxWxH)     SK-4000-TC, SK-200-TC     122-33-81-91(m) 135-530 x-60(m) 195-530 x-60(m)       Weight     Nature     3 year     12-3-33-81-91(m) 195-530 x-60(m)       Maximur Input Voltage     54/     131-F     12-3-33-81-91(m) 195-530 x-60(m)		-35dB to -25dB	4.0dB
Heasurement Points     51 5201       Temperature Stability     0.000/F       Resurement Range     0.000/G       Resolution     0.000/G       Resolution     0.000/G       VSM Measurement Range     0.000/G       Cable Someasurement Range     0.000/G       TF Range     0.000/G       Cable Someasurement Range     0.000/G       Resource Someasurement Range     0.000/G       Resource Someasurement Range     0.000/G       S	Trace Noise Magnitude(IFBW 1kHz)	0.02dB rms	
Buildy F       Codd/C       Return Loss Measurement Range     0.804-C       Resolution     0.018       VSWR Measurement Range     0.10 6 5.0       Cable Loss Measurement Range     0.80 8.0       DTF Range     0.80 8.0       DTF Range     0.80 8.0       Connector Impedance     N-type.Female 50 ohms       Connector Impedance     N-type.Female 50 ohms       Languages     Micro USB NJS B.2.0       Recommended Calibration Interval     Sc200r.C, Sc4.0000-TC     Micro USB NJS B.2.0       Magnement Calibration Interval     Sc300r.C, Sc4.0000-TC     Wiss Dys D.2.1       Recommended Calibration Interval     Sc4.000-TC, Sc4.0000-TC     Wiss Dys D.2.1       Minour Subs NUSB NUSB LOS D.0     Sc4.000-TC, Sc4.0000-TC     Sc5.000-TC       Maintin Input Voltage     Sc4.000-TC, Sc4.000-TC     Sc5.00-TC	Measurement Speed	1ms/data point.	
Temperature Stabalility0.02dB/CReturn Loss Measurement Range048 to-60dBResolution0.10 dBVSWR Measurement Range048 to 3 dBCable Loss Measurement Range048 to 3 dBDTF Range016 5000 (m)Tet Port Connector ImpedanceN+type/Female So dmmsConnectorNetworks K-6000 rCCDangeageMicro USB B, USB 2, 02LanguagesNetworks K-6000 rCCRecommended Calibration IntervalSerMicro USB A, USB 2, 02Ser System Ser Syste	Measurement Points	51 to 3201	
initial constraints   initial constraints     Resolution   initial constraints     VSWR Masurement Range   initial constraints     Cable Loss Measurement Range   initial constraints     Cable Loss Measurement Range   initial constraints     DTF Range   initial constraints     DTF Range   initial constraints     Cable Loss Measurement Range   initial constraints     DTF Range   initial constraints     Cashe Constraints   initial constraints     Cashe Constraints   initial constraints     Cashe Constraints   initial constraints     Canneetor Impedance   initial constraints     Recommended Calibration Interval   initial constraints     Maximum Input Voltage   initial constraints     Operates Immerstraint   initial constraints     Maximum Input Voltage   initial constraints     Operatesintemerstraint   initicon initial		0.01dB/ °F	
Resolution 0.01dB Resolution 0.01dB VSWR Measurement Range 0.01dB 0.006 Cable Loss Measurement Range 0.01dB 0.000 The Range 0.015 0.000(ft) 10 to 1500(m) Test Port Connector Impedance 0.015 0.0000 Test Port Connector Impedance 0.015 0.0000 Connector 0.0000	Temperature Stabalility	0.02dB/°C	
SWR Measurement Range10 to 65.0Cable Loss Measurement Range0 dB to 30 dBDTF Range0 to 5000(ff) 0 to 1500(m)Test Port Connector ImpedanceN-type-Fenale S0 dmsConnectorNKC00 CTS & 4000-TCMicro USB BUSB 2.0ConnectorSk-200 CTS & 4000-TCUSB Type-CUSB 3.0LanguageEnglish-Chinese,SpanishRecommende Calibration IntervalSk-200 CTS & 4000-TCJSZ 253 8.1.9 (fn) 182 295 8.465 (fmm) 27.5 (fr.200 CTS 200 CTS	Return Loss Measurement Range	0 dB to-60dB	
Able Loss Measurement Range     0 dB to 30 dB       DTF Range     0 to 5000(th) to 1500(m)       Test Port Connector Impedance     N-type,Female 50 ohms       Connector     Micro USB B,USB 2.0 SK-500-TC,SK-4000-TC     Micro USB B,USB 2.0 USB Type-C,USB 3.0       Languages     English,Chinese,Spanish     USB Type-C,USB 3.0       Recommended Calibration Interval     3 year     182×95×465(mm) 77×3.6×2.4(in) 182×95×9.465(mm) 77×3.6×2.4(in) 182×95×9.0000(mm)       Weight     198(bs) 0.9(kg)     182×95×465(mm) 77×3.6×2.4(in) 182×95×9.0000(mm)       Weight     198(bs) 0.9(kg)     182×95×465(mm) 77×3.6×2.4(in) 182×95×9.0000(mm)       Maximu Input Voltage     50V     182×95×400000(mm)       Operates In Temperature     14° to 131°F -10°C to +55°C     198       Ator to 176 °F -10°C to +55°C     -10°C to +55°C     -10°C to +55°C       Battery Charging Temperature     21° to 95° F     -10°C to +35°C	Resolution		
DTF Range 0 to 5000(ft) 0 to 1500(m)   Test Port Connector Impedance N-type,Fenale 50 ohms   Connector SK-200 TC, SK-4000 TC Micro USB B, USB 2.0   Connector SK-4000 TC, SK-6000 TC USB Type-C, USB 3.0   Ianguages English,Chinese,Spanish   Recommended Calibration Interval 3 year   Dimensions(L×W×H) SK-4000 TC, SK-2000 TC 7.2×3.8×1.9(in) 182×95×4.65(mm) 7.7×3.6×2.4(in) 182×95×4.65(mm) 182×95×4.65(m	VSWR Measurement Range		
Dir Range     Die 1500(m)       Test Port Connector Impedance     N-type,Female 50 ohms       Connector Impedance     SK-200-TC, SK-4000-TC     Micro USB B, USB 2.0       Connector Languages     English, Chinese, Spanish     USB Type-C, USB 3.0       Recommended Calibration Interval     3 year     T2×38×1.9(m)       Dimensions(L×W×H)     SK4000-TC, SK-6000-TC     T2×38×4.65(mm)       Vieght     192/VSS-VAG.55(CONC)     T2×38×4.65(mm)       Notion Interval     SK4000-TC, SK-6000-TC     T2×38×4.65(mm)       Vieght     192/VSS-VAG.55(CONC)     T2×38×4.65(mm)       Nation Input Voltage     192/VSS-VAG.55(CONC)     T2×38×4.65(mm)       Operates In Temperature     50/     T2×38×4.65(mm)       Operates In Temperature     50/     T2×59×4.65(mm)       Operates In Temperature     50/     T2×50×60(mm)       Operates In Temperature     60/V     T2×50×50(mm)       Operates In Temperature     40/V to 131°F     T2×50×50(mm)       Operates Temperature     40/V to 136°C     T2V to 155°C       Operates Temperature     50/V     T2V to 150°C       Operates Temperature     50/V	Cable Loss Measurement Range		
Test Port Connector ImpedanceN-type,Fenale S0 ohmsConnectorK-200-TC, SK-4000-TCKor USB RJ SB 2.0LanguagesK-4500-TC, SK-6000-TCJSB Type-CJ SB 3.0Recommende Calibration IntervalSyraZ <sup>2,23,8,4,19(in)</sup> SK-4000-TC, SK-200-TCZ <sup>2,33,8,4,19(in)</sup> SK-95,46,5(mm) 27,33,62,24(in)MeightSK-4000-TC, SK-6000-TCSiz Syrs,46,5(mm) 27,33,62,24(in)VielptSk-4000-TC, SK-6000-TCSiz Syrs,46,5(mm) 27,35,62,24(in)MeightSiz Syrs,46,5(mm) 27,35,62,44(in)MeightSiz Syrs,46,5(mm) 27,35,62,44(in)MeightSiz Syrs,46,5(mm) 27,35,62,44(in)MeightSiz Syrs,46,5(mm) 27,35,72,72,72,72,72,72,72,72,72,72,7	DTF Range		
ConnectorSk4500-TCKUSB Type-CUSB 3.0LaguagesEqlishChineseSpanishRecommended Calibration IntervalSysaDamashong CLAWAH)Sk4000-TC,SK-2000-TCDamashong CLAWAH)Sk4000-TC,SK-6000-TCVightSk4000-TC,SK-6000-TCMaximum Input VoltageSv5Operate IntervationSv5Operate IntervationSv5Anamage CLAWAHSv5Operate IntervationSv5Anamage CLAWAHSv5Anamage CLAWAHSv5Operate IntervationSv5Anamage CLAWAHSv5Anamage CLAWAHSv5Anama	Test Port Connector Impedance		
Induction SK-4500-TC USB Type-CUSB 3.0   Languages English,Chinese,Spanish   Recommended Calibration Interval 3yar   Dimensions(L×W×H) SK-4000-TC,SK-200-TC \$2×3.8.1.9(in) 182×95×46.5(mm) SK-4500-TC,SK-200-TC   Weight Intervention   Note Intervention   Operates In Temperature SV   Operates In Temperature 41°F to 131°F   Operates Temperature 40°F to 176°F   Operates Temperature 40°F to 176°F   Operates Temperature 40°F to 176°F   Operates Temperature 21°F to 180°C   Operates Temperature 40°F to 176°F   Operates Temperature 21°F to 180°C   Operates Temperature 40°F to 176°F   Operates Temperature 21°F to 180°C	Connector	SK-200-TC,SK-4000-TC	Micro USB B,USB 2.0
Recommended Calibration Interval 3 year   Pinensions(L×W×H) SK-4000-TC,SK-200-TC 182×95×46,5(mm) 182×95×46,5(mm) 7,7×3,6×2.4(in) 195×90×60(mm)   Weight 1.98(lsb) 0.9(kg)   Maximum Input Voltage 50V   Operates In Temperature 14 °F to 131 °F -10°C to +55°C   Storage Temperature -40 °F to 176 °F -40°C to +80°C   Battery Charging Temperature 32 °F to 95 °F Oc to +35°C		SK-4500-TC,SK-6000-TC	USB Type-C,USB 3.0
binensions(L×W×H)     SK-4000-TC, SK-200-TC     122×33×1.9(in) 182×95×46.5(mm) 7.7×3.6×2.4(in) 195×90×60(mm)       Weight     1.98(lbs) 0.9(kg)       Maximum Input Voltage     50V       Operates In Temperature     14 °F to 131 °F -10°C to +55°C       Storage Temperature     -40 °F to 176 °F -40°C to +80°C       Battery Charging Temperature     32 °F to 95 °F -05 °C	Languages	English, Chinese, Spanish	
Dimensions(L×W×H)     3K44000-1C, SK-200-1C     182×95×46.5(mm)       Weight     SK-4500-TC, SK-6000-TC     17.7×3.6×2.4(in)       Weight     1.98(bs) 0.9(bg)     195×90×60(mm)       Maximum Input Voltage     50V     1       Operates In Temperature     14° F to 131°F     10°C to +55°C       Storage Temperature     -40° F to 176°F     -40°C to +80°C       Battery Charging Temperature     32°F to 95°F     -20°C to +35°C	Recommended Calibration Interval		
Differisions (CX WX11) SK-4500-TC 7.7×3.6×2.4(in) 195×90×60(mm)   Weight 1.98(lbs) 0.9(kg)   Maximum Input Voltage 50V   Operates In Temperature 14 °F to 131 °F -10°C to +55°C   Storage Temperature -40 °F to 176 °F -40°C to +80°C   Battery Charging Temperature 32 °F to 95 °F oC to +35°C		SK-4000-TC,SK-200-TC	7.2×3.8×1.9(in) 182×95×46 5(mm)
Weight1.88(b) 0.9(kg)Maximum Input Voltage50VOperates In Temperature14 F to 131 FOperates In Temperature-00 C to +55 CAnore To 176 F-00 C to +30 CAnore To 176 F-00 C<	Dimensions(L×W×H)	SK-4500-TC, SK-6000-TC	7.7×3.6×2.4(in)
Apperature     14 °F to 131 °F       -10° to +55°°     -10° to +55°°       Storage Temperature     -40 °F to 176 °F       -40° C to +80°°     -40° C to +80°°       Battery Charging Temperature     32 °F to 95 °F       O'C to +35°°     O'C to +35°°	Weight		
Operates In Temperature -10°C to +55°C   Storage Temperature -40 °F to 176 °F   -40°C to +80°C -40°C to +80°C   Battery Charging Temperature 32 °F to 95 °F   O°C to +35°C O°C to +35°C	Maximum Input Voltage	50V	
-10°C to +55°C -40 °F to 176 °F -40°C to +80°C 32 °F to 95 °F o°C to +35°C		14 °F to 131 °F	
Storage Temperature -40°C to +80°C   Battery Charging Temperature 32 °F to 95 °F   0°C to +35°C 0°C to +35°C	Operates In Temperature	-10℃ to +55℃	
-40°C to +80°C Battery Charging Temperature 32 °F to 95 °F 0°C to +35°C	Storage Temperature	-40 °F to 176 °F	
Battery Charging Temperature 0°C to +35°C		-40°C to +80°C	
0°C to +35°C	Battery Charging Temperature	32 °F to 95 °F	
Storage Capacity Thousands of Trace and Setups		0℃ to +35℃	
	Storage Capacity	Thousands of Trace and Setups	
Immunity to Interfering Signals +13dBm	Immunity to Interfering Signals	+13dBm	
CE     EMC-Standard EN 61326-1:2006       Safety-Standard EN 71010-1:2001       Standard EN61000-3-2:2006+A1:2009+A2:2009       EN61000-3-3:2013	CE	Safety-Standard EN 71010-1:2001 Standard EN61000-3-2:2006+A1:2009+A2:2009	
Battery (Lithium-ion rechargeable) SK-4000-TC,SK-200-TC 4 Hrs Typical Operating Time	Battery (Lithium-ion rechargeable)	SK-4000-TC,SK-200-TC	4 Hrs Typical Operating Time
SK-4500-TC , SK-6000-TC 10 Hrs Typical Operating Time		SK-4500-TC, SK-6000-TC	10 Hrs Typical Operating Time
Battery Charge Time 5 Hrs for Full Charge	Battery Charge Time	5 Hrs for Full Charge	
Power Measurement Yes	Power Measurement	Yes	
Compatible With 7020,5012D,5014,5015,5015-EF,5016D,5017D,5018D,5019D	Compatible With	7020,5012D,5014,5015,5015-EF,5016D,5017D,5018D,5019D	
GPS SK-4500-TC,SK-6000-TC	999	SK-4500-TC,SK-6000-TC	

## Ordering List

STANDARD ACCESSORIES PROVIDED SK-200-TC, SK-4000-TC		
SK-CAL-MN-C	Calibration Combo	
SK-TP-112	Stylus	
5B2229-510H-3	AC ADAPTER(5Vdc Output)	
7002A218-1	Hard Carrying Case	
5A2653-3R5NL4	USB Interface Cable, Power, 1 meter long	
920-SK-4000	Instruction Manual	
7002A219-1	Soft Carrying Case	
5A2745-1	USB Drive	
5A2653-0R5NL5	USB Interface Cable,15cm long	
STANDARD ACCESSORIES PROVIDED SK-4500-TC,SK-6000-TC		
SK-CAL-MN-C	Calibration Combo	
SK-TP-112	Stylus	
APL336-1230	AC ADAPTER(12Vdc Output)	
7002A218-2	Hard Carrying Case	
SK-TC-MNFN-1M	RF Cable,1 meter long	
920-SK-4500	Instruction Manual	
7002A219-2	Soft Carrying Case	
5A2745-1	USB Drive	
SK-CONN-OTG-2	USB OTG Connector	
Battery	SK-BTY-7468	
OPTIONAL Accessories		
PA-MNFE	Adapter,N(m) to 7/16 DIN(f)	
PA-FNFE	Adapter,N(f) to 7/16 DIN(f)	
PA-FNME	Adapter,N(f) to 7/16 DIN(m)	
PA-MNME	Adapter,N(m) to 7/16 DIN(m)	

#### About us

Transcom Instrument Co., Ltd. founded in 2005 and headquartered in Shanghai, is a leading manufacturer and provider of RF and wireless communication testing instruments and overall solutions in China. Based on its independent brands and a wide range of core patented technologies, Transcom became national high-tech enterprise with independent intelligent property rights and has been listed into Shanghai Enterprise Recognition Award for High Growth SMEs in Technology.

Transcom is backed by a experienced and dedicated research team in mobile communication, radio frequency and microwave, and network optimization testing instrument. Through "Industry-University-Research" cooperation with universities, Transcom founded Southeast University-Transcom Electronic Measurement Technology Center at Southeast University to futher ensure technology and talent reserve, and secure future visionary and sustainable technology development.

Transcom's product portfolios focus 4 areas: cellular network critical communication planning/maintenance/optimization, Manufacturing testing solution, educational instrument/ equipment, spectrum monitoring sensor for system integration.



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Keep innovating for excellence!

