



# SITE ANALYZER EX SERIES

SA-6000EX (25-6000 MHz)  
SA-2500EX (780-2500 MHz)  
SA-1700EX (25-1700 MHz)  
SA-1700EXP (25-1700 MHz)

- **ONE UNIT** covers the entire 25-6000 MHz range!
- Easy to operate and field ready for first-time, occasional and experienced users
- Suitable for use in Worldwide Cellular and PCS/DCS systems; supporting measurement of CDMA, GSM, TDMA and AMPS modulation schemes
- Other applications include 3G, Broadcast, Government, Tactical Military, Microwave, Paging, Public Safety, Trunking, WLAN and WLL, and TETRA. See model matrix below
- Color display is clearly visible in direct sunlight
- With a single download you can view data as Distance to Fault or Measurement Match-**no need to store two traces**.
- 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



Model #	SA-1700EX	SA-1700EXP	SA-2500EX	SA-6000EX
Frequency Range	25-1700 MHz	25-1700 MHz	780-2500 MHz	25-6000 MHz
Frequency Resolution	25 kHz; 25-800 MHz 50 kHz; 800-1700 MHz	25 kHz; 25-800 MHz 50 kHz; 800-1700 MHz	50 kHz	25 kHz; 25-800 MHz 50 kHz; 800-2500 MHz 150 kHz; 2500-6000 MHz
Power Measurement	No	Yes	Yes	Yes
Return Loss	0 to -60 dB			
Test Port	N-type female connector			
Impedance	50			
Speed	1 multi-frequency scan (238 points)/2 seconds 1 multi-frequency scan (475 points)/3.5 seconds 1 multi-frequency scan (949 points)/6 seconds			
Trace Resolution	238 (default), 475, or 949 per trace			
Storage Capacity	15 Set-Ups/(500) 238 point traces			
Immunity to Interfering Signals	Rejects on-frequency signals up to +13 dBm			
Maximum Input Signal	+22 dBm			
Data Transfer	9-pin RS-232 (DB9), compatible with serial port			
Internal time	Rechargeable Lithium-Ion batteries. 3-hour minimum operating time. Auto shut-off conserves battery life.			
External DC	9-16 VDC fused, < 3 A			
External AC	90 to 264 VAC @ 45-66 Hz; AC/DC adapter required			
Operating Temperature	-10° to +50° C (+14° to +122° F)			
Storage Temperature	-40° to +80° C (-40° to +176° F)			
Humidity	95% ± 5% max., (non-condensing)			
Altitude	Up to 15,000 feet (4572 m)			
Dimensions	10.5" x 8.4" x 3.3" (265 x 212 x 83 mm)			
Weight	5.5 lbs. (2.5 kg)			
Upgradeable	SA-6000EX	SA-6000EX	SA-6000EX	No



**RF Measurement and Management in Your World**



Bird® Technologies Group, consisting of Bird® Electronic Corporation and TXRX Systems®, is a global, innovative supplier of RF products, systems, services and educational solutions. Bird® Technologies Group reserved the right to modify specifications or discontinue any product without notice.

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568-EXSeries-1092009

# FX SERIES

# SITE ANALYZER EX SERIES

Bird's® Site Analyzer® is the user-friendly test solution for installing, maintaining, and troubleshooting your antenna and cable systems. Field engineers and technicians rely on this rugged handheld tool to get the job done. Wireless equipment manufacturers, service providers, contractors, tower erectors and military field personnel world wide approve of the analyzer's precision VSWR and Return Loss results.

This versatile product also includes a Digital Power Meter option to accurately measure the output power of your base station. Wideband Power Sensors are available from Bird up to 4 GHz for use with this option, and are listed with the Accessories below.



## DIGITAL POWER METER OPTION

Digital Power Meter option allows accurate power readings for digital or analog systems including those with CDMA, GSM, TDMA, or AMPS modulation. Operators of analog and digital two-way radio systems, including tactical military users, will benefit as well.

- Compatible with the Model 5010B Directional Power Sensor to display forward and reflected power as well as VSWR and Return Loss, DPM elements range from 2 MHz – 2700 MHz.
- Compatible with the Model 5011 terminating Power Sensor to measure power directly or via a coupled test port from 40 MHz – 4000 MHz.
- Compatible with the Model 5012 Wideband Power Sensor to display forward and reflected power 350-4000 MHz. Digital Power Meter option included with SA-1700EXP, SA-2500EX and SA-6000EX.

## ACCESSORIES

Model	Description
CAL-MN-C	Calibration combo, (M) N
CAL-FN-C	Calibration combo, (F) N
CAL-ME-C	Calibration combo, (M) 7/16 DIN
CAL-FE-C	Calibration combo, (F) 7/16 DIN
4240-550	Precision Adapter Kit, 7/16 DIN, SA-Series
5012	Wideband Power Sensor, 350-4000 MHz
5011	Terminating Power Sensor, 40-4000 MHz
5010B	Directional Power Sensor, 2-2700 MHz
TC-MNME-1.5	Test Cable, 1.5m, N (M) - 7/16 DIN (M)
TC-MNME-3.0	Test Cable, 3.0m, N (M) - 7/16 DIN (M)
TC-MNMN-1.5	Test cable, 1.5 m., N (M) conn.
TC-MNMN-3.0	Test cable, 3 m., N (M) conn.
TC-MNFN-1.5	Test cable, 1.5 m., N (M)/N (F) conn.
TC-MNFN-3.0	Test cable, 3 m., N (M)/N (F) conn.
TC-MNFE-1.5	Test cable, 1.5 m., N (M)/7/16 DIN (F) conn.
TC-MNFE-3.0	Test cable, 3 m., N (M)/7/16 DIN (F) conn.
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)
7002C870	Hard shell transit case
SA-BATPAK	External battery pack
DC-DB9 USB	Serial-USB Adapter



### WIDEBAND POWER SENSOR

**(MODEL 5012)** The Model 5012 provides customers a TOTAL RF POWER MEASUREMENT SOLUTION for Directional power Measurement with Accuracy of  $\pm 5\%$  of readings.



### DIRECTIONAL POWER SENSOR

**(MODEL 5010B)** The Model 5010B provides customers a TOTAL RF POWER MEASUREMENT SOLUTION for ThruLine® (In-Line) Power Measurements with Accuracy of  $\pm 5\%$  of readings.



### NEW TERMINATING POWER

**SENSOR (MODEL 5011)** The Model 5011 provides customers a TOTAL RF POWER MEASUREMENT SOLUTION to measure Base Station Power and/or Broadcast Transmitter Power with Accuracy of  $\pm 5\%$  of readings