

S700 Series Cable & Antenna Analyzer

Key Benefits

- Handheld, lightweight, field-proven design withstands harsh environments and lighting conditions
- Easily set up measurements with over 100 preset wireless frequency bands and cable types
- Reduce test time with dual measurement display to make two measurements simultaneously
- Detect signal degradation and system performance over time with trace overlay
- Instant Pass/Fail status
- Manage your measurement data and test setups with Measurement Center Software
- Intuitive touchscreen user interface for easier, faster measurements



Verify cell site RF transmission settings, cable feedline and antenna systems.

The proliferation of wireless networks has placed increased demands on wireless professionals and contractors, who install, maintain and troubleshoot wireless communication networks. The majority of problems in wireless network installation and performance often occur within the base station infrastructure consisting of the cable and antenna system and associated RF connectors. Compounding the problem, often times cell sites are located in rural or difficult to access locations

Designed specifically for carriers, wireless professionals and contractors who install, maintain and troubleshoot wireless communications networks, the S700 Series of Cable & Antenna Analyzers provide all necessary measurement functions and performance to accurately diagnose and verify the site's cable and antenna system and RF connectors, as well as basic fiber-feedline testing.

Measurements

- Reflection Return Loss or VSWR
- Fault Location DTF/RL or DTF/VSWR
- Cable-loss
- 1-Port Phase
- Smith Chart

Optional Measurements Modes

- RF Power Meter (DML-015)
- Optical Power Meter (DML-016)
- Visual Fault Locator (DML-017)



Performance Specifications

France opec		
Frequency Pange	2 MHz –3 GHz(S700) 2 MHz – 4.4 GHz(S740)	
Frequency Range	2 MHz -6.1 GHz(\$760)	
Resolution	0.5 kHz	
Measurement Speed		
Reflection	< 1.0 mS/point	
DTF	< 1.25 mS/point	
Data Points	130, 259, 517, 1033, 2065	
Measurement Accuracy		
Corrected Directivity	42 dB (typical, after standard OSL calibration) 38 dB (typical, after eCAL calibration)	
Output Power		
O dBm (Nominal)		
Interference Immunity		
On-channel	+18 dBm @ >1 MHz of carrier frequency	
Off-channel	+13 dBm within ± 10 kHz of carrier frequency	
Measurements		
Return Loss	0 to 60dB (Resolution 0.01 dB)	
VSWR	1:1 to 65:1	
Cable Loss	0 to 30 dB (Resolution 0.01 dB)	
DTF Range (Distance)	1500 meters (4921 feet)	
Connectors (Reflection,		
RF Out	Type N, female, 50Ω	
RF Out Damage Level	25 dBm, ± 50 VDC	
Connectivity	20 02, = 00 10 0	
USB host	USB 2.0 Type A	
USB client	5-pin mini-B (connect to PC for data transfer)	
LAN	RJ45 10M/100M LAN Ethernet Port	
Display	1043 TOWN TOOM LAW Ethernet Fort	
Type / Size	TFT LCD / 7.0" (800 x 480)	
	1112CD / 7.0 (000 X 400)	
Data Storage Internal	1 GB, > 5000 saved measurement fles	
External	Limited by size of USB flash drive	
	Littlited by Size of OSB flash drive	
Battery	Li lee 7 AV 7 FALL	
Type	Li-lon, 7.4V, 7.5AH	
Operation	TYP.> 8.0 hours, continuous	
Environmental	4000	
Operating Temperature	-10°C to + 55 °C	
Storage Temperature	-40 °C to + 80 °C	
Maximum Humidity	95% RH (non-condensing) @ 40 °C	
Shock	Mil-PRF-28800F Class	
Altitude	4600 meters, operating and non-operating	
EMC		
European EMC	IEC/EN 61326-1:2006	
AC Power		
AC Adapter Output	11-14 VDC	
AC Adapter Input	100 – 240 VAC, 50-60 Hz	
Size & Weight		
Size	245 mm x 190 mm x 75 mm (9.64 in x 7.48 in x 2.95 in)	
Weight	2 kg (4.4 lbs)	

Standard Accessories

Rechargeable Li-lon battery: 7.4V, 7.5Ah	6130.0100.01
AC-DC adapter: 11-14VDC	FSP065-RAB
Vehicle Plug-in lighter adapter	E8000-040
1.5m RF Test Port Cable, N(m), 6GHz	E7000-0702
Calibration Combo Open/Short/Load, N(m), 6GHz	E7000-0700
Soft carry case	DS2800-008
Measurement Center Software CD-ROM with Users-Manual	E7000-0200

Optional Accessories

RF Test Port Cable, Armored, phase stable, 1.5m, N(m) to N(f), $6\text{GHz}, 50\Omega$	DTC-6SNMNF-1.5
RF Test Port Cable, Armored, phase stable, 1.5m, N(m) to 7/16 DIN(f), 6GHz , 50Ω	DTC-6SNMDF-1.5
RF Test Port Cable, Armored, phase stable, 1.5m, N(m) to 7/16 DIN(m), 6GHz , $5\Omega\Omega$	DTC-6SNMDM-1.5
RF Test Port Cable, Armored, phase stable, 3.0m, N(m) to N(f), 6GHz, 50Ω	DTC-6SNMNF-3.0
RF Test Port Cable, Armored, phase stable, 3.0m, N(m) to 7/16 DIN(f), 6GHz, 50Ω	DTC-6S8NMDF-3.0
RF Test Port Cable, Armored, phase stable, 3.0m, N(m) to 7/16 DIN(m), 6GHz , $5\Omega\Omega$	DTC-6SNMDM-3.0
RF Test Port Extension Cable, phase stable, 1.5m, N(f) to N(f), $6\mbox{GHz}, 50\mbox{\Omega}$	DTC-6SNFNF-1.5
Precision Adapter Kit, 50Ω (NMDM, NFDM, NMDF, NFDF, DFDM90°)	DPAK-6G100
Precision Adapter, N(m) to N(m), DC to 18GHz, 50Ω	DPA-NMNM
Precision Adapter, N(f) to N(m), DC to 18GHz, 50Ω	DPA-NFNM
Precision Adapter, N(f) to N(f), DC to $18GHz$, 50Ω	DPA-NFNF
Precision Adapter, N(f) to 7/16 DIN N(m), DC to 6GHz, 50Ω	DPA-NFDM
Precision Adapter, N(f) to 7/16 DIN N(f), DC to 6GHz, 50Ω	DPA-NFDF
Precision Adapter, N(f) to SMA(f), DC to 6 GHz, 50Ω	DPA-NFSF

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