E7000L 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 E7000 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

Fraguency	
Frequency Frequency Range (E7000L)	2 MHz - 4.4 GHz
Resolution	0.5 kHz
	U.J KIIZ
Measurement Speed Reflection	< 1.0 mS/point
DTF	< 1.25 mS/point
Data Points	' '
	130, 259, 517, 1033, 2065
Measurement Accurac	Y 42 dB (typical, after standard OSL calibration)
Corrected Directivity	38 dB (typical, after eCAL calibration)
Output Power	(3)
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	- 10 Kill of Carrier Heydericy
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	23 ubili, ± 30 vbC
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 EAN EMETHEET OF
Type / Size	TFT LCD / 7.0" (800 x 480)
Data Storage	The Cook Loop
Internal	1 GB, > 2000 saved measurement files
External	Limited by size of USB flash drive
Battery	
Туре	Li-Ion, 7.4V, 7.5AH
Operation	TYP.> 8.0 hours, continuous
Environmental	
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-Ion 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), 6GHz , 50Ω	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), $6GHz$, 50Ω	DTC-6SNMDM-1.5
RF Test Port Cable, Armored, phase stable, 3.0m, N(m) to N(f), $6\text{GHz}, 50\Omega$	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), $6\text{GHz}, 50\Omega$	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 6GHz, 50Ω	DPA-NFSF

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