

# DEVISER

*your dedicated adviser*

# Site PROFILER™ E7000L Series

## Handheld Cable & Antenna Analyzer

- 2MHz to 4.4GHz Cable & Antenna Analyzer
- 20MHz to 4.4GHz Internal RF Power Meter
- Internal Optical Power Meter and VFL Option
- Built-in GPS Option
- Built-in WIFI Option



# Company Profile



Tianjin Deviser Electronics Instrument Co., Ltd, the leading R&D institute and manufacturer of TV & Broadcasting and Telecommunication test and measurement instrument in China, was founded in 1990 and had become a time and credit proven brand of electronic instruments over 25 years of expertise and trust.

Working in a 23,000m<sup>2</sup> R&D laboratory and production facility, Deviser possesses outstanding R&D engineering teams, complete product lines and cutting-edge technologies with over 20 National-level invention patents and 100 utility model patents in Digital Broadcasting and Television, Spectrum and Network Analysis, Radio Frequency, Fiber Optics and Mobile Communication. As the Chinese Cable TV (CATV) market leader in test and measurement (T&M) instrument with estimated market share of more than 80%, Deviser has always been visioning innovation front. Deviser has been a fast developing company

where the revenue has been increased 20-35% every year for the past two decades. Up to today, Deviser has over 150 engineers and 350 employees in total, 6 R&D divisions and 6 assembly lines. Deviser has the capability of manufacturing over 40,000 pieces of instruments every year where more than 1/3 of them export to international markets.

With a significant capital investment, Deviser



configures an EMC laboratory, the Electro Magnetic Compatibility laboratory which qualifies the structure of CISPR16. The Validation and Routine laboratory configures the HLT403C high/low temperature test chamber, EL-04KA environment test chamber which is able to run the high/low temperature environment test at -40 ~ 150°C and 25% ~ 98% constant temperature damp and hot test. The laboratory imitates various astigmatic environments for the products during transportation and usage to identify the ability of suffering the vibratory environment. With completed and advanced metrological technology equipment,

the Metrology and Calibration laboratory configures the 9030A/HP8902A RF receiver, EFA test receiver, SFQ digital source, 5182B vector signal source, E4418B power meter, 8164B and 86142B lightwave measurement instrument etc. Every year, each one of equipment will be calibrated and traced by China National Institute of Metrology and Telecommunication Metrology Center of MIIT to maintain consistent with the international standard of metrology. Deviser passed and obtained ISO9001 Quality System Certification in 1996 and it was the first electronic instrument company who obtained this certification in China. Deviser invests significant portion of sales revenues in professional production workshop with anti-static, dust-proof and humidity control.

Deviser's worldwide distributors spread out on four continents over 100 countries and not only offer Deviser products but also engage with Pre-Sale and Post-Sale services. Deviser offers complete repair and calibration services in three service centers which are in China, United of States and Belgium. Deviser also offers products in various languages such as Chinese, English, Russian, Korean, German, French, Spanish and Italian.

As the corporate culture and task to provide first-class support to our customers and design the state-of-art and the most cost-effective electronic instrument, Deviser commits to be the dedicated adviser of electronic instrument to our customers.



# Site PROFILER™ E7000L Series

## Handheld Cable & Antenna Analyzer



### Introduction

Site PROFILER™ is the most trusted, reliable, and preferred cable and antenna analyzer by outdoor and indoor coverage project installation and maintenance contractors, and wireless service providers.

DEVISER is proud to introduce the new Site PROFILER™ E7000L, our 3rd generation compact handheld Cable & Antenna Analyzer. The E7000L is newly designed from the ground up. We took all of our experience, customer feedback, field trials, and the latest technology advancements, and developed the product with the features of low cost, field optimized, trusted, reliable, rugged, easy to use.



### Site PROFILER Highlights

- >8 hour battery life allows user to test all day without recharging the batteries
- Internal E-CAL Module
  - Fast, one connection calibration
  - One calibration for all frequencies
- Internal 4.4GHz RF Power Meter
- Built-in Optical Power Meter and VFL options
- Built-in GPS and WIFI options
- Highest RF Immunity
- Backlit keypad
- Rugged and reliable
- Impact, dust and splash resistant
- Smallest, lightest Site PROFILER

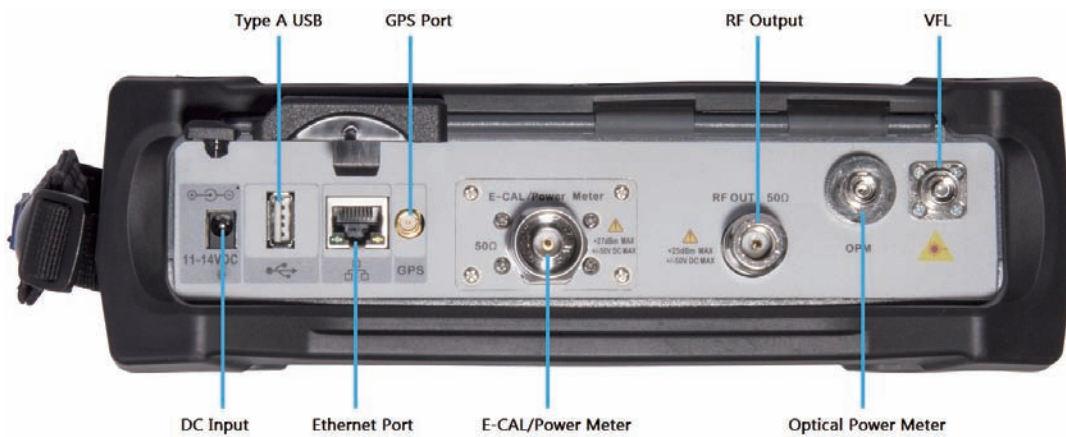
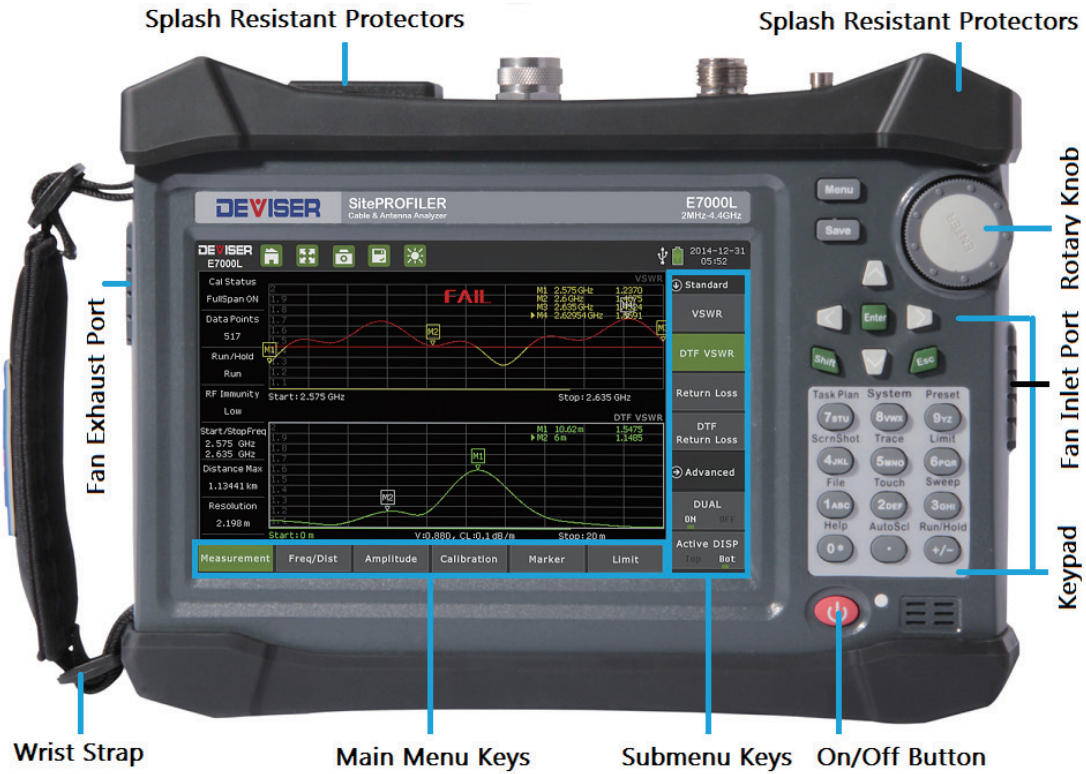
### Efficient data management

- Internally store >2000 files
  - Traces, setups, screenshots
- Fast preview of stored traces
- Site Workbench Software
  - Edit sweeps, rename, archive
  - Generate PDF reports
- Standard \*.bin and \*.csv trace file format

### Easy to use

- High resolution, 7 inch full color touch-screen viewable in any lighting condition
- Efficient UI and UE, enhance installers productivity
- Integrated Help function
- Flexible connectivity with LAN and USB.

Physical Information



7" Daylight Viewable Touch Screen

## Key Specifications

Cable and Antenna Analyzer	
Measurement	VSWR Return Loss Cable Loss Distance-to-Fault (DTF) Return Loss Distance-to-Fault (DTF) VSWR 1-Port Phase Smith Chart
Frequency range	2MHz to 4400MHz
Frequency resolution	0.5kHz
Frequency accuracy	±2 ppm
Output power level	≥0dBm
Sweep time	1mS/point (Return Loss) 1.25mS/point (DTF)
Data points	130,259,517,1033,2065
RF immunity	+13 dBm within ±10 kHz of the carrier frequency +20 dBm @ >1.0 MHz from carrier frequency
Corrected directivity	≤-42dB (after standard calibration) ≤-38dB (after full band calibration)
Return loss	
Range	0.00-60.00dB
Resolution	0.01dB
VSWR	
Range	1-65
Resolution	0.01
Cable loss	
Range	0.00-30.00dB
Resolution	0.01dB
DTF	
Return loss range	0.00-60dB
VSWR range	1-65
Length	0 to (data points-1)/(span×2) × Vp × C Span=frequency range
Resolution (m)	=Vp × C /(span×2)
Data points	130,259,517,1033,2065

## Key Specifications(Continued)

Internal RF Power Meter	
Frequency range	20MHz to 4400MHz
Amplitude	Maximum, Minimum, Offset, Relative On/Off, Units, Auto Scale
Average	Running Average, Max Hold On/Off, Run/Hold, Average Mode Cont/Single
Limit	Limit On/Off, Limit Upper/Lower
Display Range	-100 dBm to +100 dBm
Measurement Range	-33 dBm to +20 dBm
Offset Range	Max ± 100 dB, user settable value
VSWR	1.5:1 typical
Maximum Power	+27 dBm, ± 50 VDC (damage level)
Connector	Type N(m), 50 Ω
Accuracy	± 0.5 dB (23 °C ± 3 °C)
Frequency Response and Linearity	Additional ± 0.8 dB (± 0.5 dB typical)
Temperature Effect	Additional ± 0.02 dB per 1 °C change (typical)
Optical Power Meter	
Accuracy	±0.17dB(±3%)
Probe Type	InGaAs Φ300µm
Dynamic Range	-50dBm ~ +27dBm
Resolution	0.01 dBm, mW, uW, nW
Wave Length	850 nm/980 nm/1300 nm/1310nm/1490 nm/1550nm/1610 nm
Adaptor	FC/SC/ST
VFL	
Output Power	10mW
Adaptor	FC/PC

General	
RF output port	Nf type
Impedance	50Ω
Display	7" TFT LCD , 800*480 , touch screen
Interface	1 USB Type A 1 10M/100M Ethernet Port
Storage space	1GB memory , >2000 trace files , >2000 setup files , >2000 BMP files
Operation temperature	-10 ~ +55°C
Store temperature	-40 ~ +80°C
Weight	< 2kg
Size(L×W×H)( mm)	245 × 190 × 75
Battery	7.4V, 8.7Ah
Continuous Work Time	> 8 hours
AC adapter output	11-14VDC
AC adapter input	100-240VAC, 50-60Hz
Language	English, Chinese, French, extensible

### Order Information

Part Name	Part Number	Description
E7000L	0130.7000.12	Cable and Antenna Analyzer , 2MHz to 4.4GHz
E7000L-1000	2130.7000.27	Internal E-CAL , 2MHz to 4.4GHz
E7000L-0040	2130.7000.28	Internal Power Meter , 20MHz to 4.4GHz

### Standard Accessories

Part Name	Part Number	Description
DS1001-000	6190.0600.02	Certification of Quality Card
E7000L-0200	6130.0600.08	Site Workbench Software and Documentation disc
E7000L-0110	6130.0600.09	Quick Operation Guide
DS2800-008	6110.0600.14	Soft Carrying Case
FSP065-RAB	6190.0700.06	FSP065-R AC Adapter
E8000-0400	6190.0700.14	Vehicle charger
A - MiniB	6290.0900.05	USB A/5-pin mini-B Cable
DS8831-706	6190.0500.19	Crossover LAN cable
7.4V/8.7Ah	6130.0100.01	7.4V /8.7Ah Rechargeable Li-Ion Battery
E7000L-0120	6130.0600.10	Certificate of Calibration and Conformance
AE4000-730	6290.0900.01	Replacement Stylus with coiled tether
		Standard Three-year Warranty(battery one-year warranty)

### Options

Part Name	Part Number	Description
E7000L-0100	6130.0600.11	User Guide Hard Copy
E7000A-0050	2121.7000.31	Inline High Power Meter
OPM Model	2130.7000.29	Optical Power Meter and VFL Module
E7000L-0030	2130.7000.30	Built-in GPS Module
E7000L-0060	2130.7000.31	Built-in WIFI Module

### Optional Accessories

Part Name	Part Number	Description
RF Test Port Cables		
E7000-702	6190.0501.03	1.5m, N(m) to N(f) , 6GHz , 50Ohm
E7000-741	6190.0500.00	1.5m, N(m) to N(m) , 6GHz , 50Ohm
E7000-742	6190.0500.98	3.0m, N(m) to N(f) , 6GHz , 50Ohm
E7000-743	6190.0501.69	3.0m, N(m) to N(m) , 6GHz , 50Ohm
E7000-705	6190.0501.15	1.5m, N(m) to 7/16 DIN(f) , 6GHz , 50Ohm
E7000-706	6190.0501.16	1.5m, N(m) to 7/16DIN(m) , 6GHz , 50Ohm
RF Phase-Stable Armored Test Port Cables		
E7000-756	6190.0501.82	1.5m, N(m) to N(f) , 6GHz , 50Ohm
E7000-744	6190.0501.70	1.5m, N(m) to N(m) , 6GHz , 50Ohm
E7000-745	6190.0501.71	3.0m, N(m) to N(f) , 6GHz , 50Ohm
E7000-746	6190.0501.72	3.0m, N(m) to N(m) , 6GHz , 50Ohm
Calibration Components		
E7000-700	6190.0501.01	Precision "Y" OSL calibration kits , N(m) , 42dB , 6GHz , 50Ω

E7000-710	6190.0501.20	Precision "Y" OSL calibration kits , N(f) , 42dB , 6GHz , 50Ω
<b>Adapters</b>		
E7000-717	6190.0501.27	7/16 DIN(f) to N(m) , DC to 7.5GHz , 50Ω
E7000-718	6190.0501.28	7/16 DIN(f) to N(f) , DC to 7.5GHz , 50Ω
E7000-719	6190.0501.29	7/16 DIN(m) to N(f) , DC to 7.5GHz , 50Ω
E7000-720	6190.0501.30	7/16 DIN(m) to N(m) , DC to 7.5GHz , 50Ω
E7000-721	6190.0501.31	7/16 DIN(m) to 7/16 DIN(m) , DC to 7.5GHz , 50Ω
E7000-722	6190.0501.32	7/16 DIN(f) to 7/16 DIN(f) , DC to 7.5GHz , 50Ω
E7000-723	6190.0501.33	7/16 DIN(f) to 7/16 DIN(m) , DC to 7.5GHz , 50Ω
<b>Attenuators for use with Power Meter</b>		
E7000-747	6190.0501.73	20dB , 5W , DC to 6GHz , N(m) to N(f)
E7000-748	6190.0501.74	30dB , 5W , DC to 6GHz , N(m) to N(f)
E7000-749	6190.0501.75	20dB , 5W , DC to 18GHz , N(m) to N(f)
E7000-750	6190.0501.76	30dB , 5W , DC to 18GHz , N(m) to N(f)
E7000-751	6190.0501.77	30dB , 50W , DC to 8.5GHz , N(m) to N(f)
E7000-752	6190.0501.78	40dB , 100W , DC to 4GHz , N(m) to N(f)
E7000-753	6190.0501.79	40dB , 100W , DC to 8.5GHz , N(m) to N(f)
E7000-754	6190.0501.80	40dB , 150W , DC to 4GHz , N(m) to N(f)
E7000-755	6190.0501.81	40dB , 150W , DC to 8.5GHz , N(m) to N(f)

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