

DEVISER®



Deviser
Instruments Catalog

2023-2024

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Wireless Communication and TV & Broadcasting T&M Solution

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Signal and Spectrum Analyzers

New



E8900A 5G NR Handheld Spectrum Analyzer

- Frequency range 9 kHz to 9 GHz
- Hi-speed signal analysis, measuring 80 GHz/s @ <25 kHz, 100 MHz bandwidth real-time analysis
- Spectrum & Interference analysis, Analog / digital signal demodulation, Field strength measurement
- 5G NR (FR1), 4G LTE, 3G/2G signals testing and demodulation capabilities
- 5G NR and TDD-LTE Gated Sweep to capture time-varying signal time-domain conversion
- IQ data acquisition
- Built in GPS, HDMI, LAN, USB, AUX interfaces and external WiFi module
- 10.1 inch capacitive touchscreen for easy control & visibility, weight around 3.5kg

New



E8800A/C/D/F (9GHz/18GHz/26.5GHz/43GHz) Portable Spectrum Analyzer

- 5G FR1 & FR2 bands covering frequency range from 9 kHz to 43 GHz
- Hi-speed analysis, measuring 80 GHz/s @ <25kHz, 100MHz real-time analysis bandwidth
- Spectrum analysis, Interference analysis, Analog & digital signal demodulation, Field strength measurement
- 5G NR (FR1), 4G LTE, 3G/2G signals testing and demodulation; 5G NR and TDD-LTE Gated Sweep
- IQ data acquisition
- Directional antennas allowing quick and reliable RF signal localization
- Built in GPS, HDMI, LAN, USB, AUX interfaces and external WiFi module
- 10.1 inch capacitive touchscreen for easy control & visibility, weight around 3.5kg

New



E80 Smart Spectrum Analyzer

- Frequency range 9 kHz to 6 GHz
- Dynamic range 100 dB
- Phase noise ≤ -95 dBc/Hz @ 10 kHz
- Minimum ANL ≤ -165 dBm/Hz (Average Noise Level)
- IP3 > 15 dBm
- Second harmonic suppression > 70 dBc
- IF bandwidth 20MHz, scanning speed 10 GHz/s @ 25 kHz
- USB-Type-C, API remote control
- Spectrum analysis, Channel Power, OBW, ACPR, Spectrogram and Digital Persistence Spectrum
- Interference hunting, Field strength, 2G/3G/4G/5G signal demodulation and constellation

E816 Series 5N NR Scanning Receiver



- Frequency range from 350 MHz to 6 GHz
- Precise planning and design optimization for 5G networks
- PC based post-analysis software
- Pass/fail of desired and undesired Spectrum signals
- 8 frequency bands can be measured simultaneously
- 4G/5G base station coverage test and maximum 32 frequency points can be tested in parallel
- Spectrum and 4G/5G base station coverage mapping
- Simultaneous TDD uplink and downlink spectrum testing for easy interference detection and management

New



E8600N Portable Spectrum Analyzer

- Frequency range 9 kHz to 6 GHz; IF Bandwidth 20/40/100 MHz
- Scanning speed 20 GHz/s @ 25 KHz; DANL -164 dBm/Hz
- Spectrum analysis, Channel Power, OBW, ACPR, Spectrogram and Field strength measurement
- Interference analysis, Spectrogram, Field strength and Interference location; Spectrum Emissions Mask
- Test and demodulate 5G NR (FR1), 4G LTE and 3G signals
- Screen capture, record and playback
- Indoor & outdoor coverage mapping and network clearance
- Identify the location of interfering sources quickly using the ET30 Series DF antenna and modulating audio tone which changes in pitch and volume with received signal strength
- Built in GPS, HDMI, LAN, USB, AUX interfaces and external WiFi module, 7 inch capacitive touchscreen LCD

New



Lark6000 Lightweight Drone Interference Screening System

- Frequency range 9 kHz to 6 GHz; Scanning speed 10 GHz/s @ 25 kHz
- Wireless spectrum monitoring and management, easy to identify the interference direction and position, electromagnetic radiation monitoring
- Load capacity of 0.6 to 1 kg, flight time > 20 minutes, 200 meters flying height and 800 m flying distance
- Interference source finding and positioning with log periodic directional antenna and 4G data communication
- Light weight, low cost, single-person operation for installation and monitoring of 5G networks.
- Flying restrictions – no shelter, no rain and light wind



ET30 Series Handheld Directional Antenna

- Frequency range 9 kHz to 8 GHz
- Input impedance 50Ω, VSWR < 2.5, Horizontal or vertical polarization
- ET30 handle includes built-in GPS, 3D electric compass, built-in Amplifier 15 dB, 100mA, USB2.0, SMA or N type interface
- Total weight(antenna+transport box) around 7.5kg

Models

- ET20M: 9 kHz-20 MHz directional antenna
- ET250M: 20 MHz-250 MHz directional antenna
- ET500M: 200 MHz-500 MHz directional antenna
- ET8000M: 500 MHz-8 GHz directional antenna

Electromagnetic Radiation Analyzers



EM860/C/D/F (9/18/26.5/43GHz) Professional Frequency & Code Selective EMF Analyzer

- 9 kHz to 43 GHz Spectrum Analyzer, scanning speed 80 GHz/s @ 25 GHz
- Optional frequency selective antenna TS-250M (9 kHz to 250 MHz) and TS-8G (200 MHz to 8 GHz)
- 5G NR, 4G LTE, 3G UMTS code selective EMF measurements
- Up to 100 MHz user selectable real-time analysis bandwidth
- Multifunctional applications include Level recorder, Safety evaluation, Scene recorder and Spectrum analysis
- Configurable service table including; provider names & channel tables (CBW), real time field strength display in GIS, save & export results for fast and easy reporting.
- Integrated live temperature and humidity compensation, WiFi module, Compass, GPS positioning and USB communication module
- Measurements conforms to ICNIRP 2020 and other national standards
- 10.1 inch capacitive touchscreen

EM Field Strength Calibrator



EM560 Frequency & Code Selective EMF Analyzer

- 9kHz to 6 GHz / 7.5 GHz Spectrum Analyzer, scanning speed 20 GHz/s @ 25 GHz
- Optional frequency selective antenna TS-250M (9 kHz to 250 MHz) and TS-6G (200 MHz to 6 GHz)
- Supports various field strength antennas and applications such as Medium-high frequency wave, TV broadcasting, Wireless communication and environment monitoring
- 5G NR, 4G LTE, 3G UMTS code selective EMF measurements
- Configurable service table, including provider names & channel tables (CBW), real time field strength display in GIS, save & export results for fast and easy reporting.
- Integrated live temperature and humidity compensation, WiFi module, Compass, GPS positioning and USB communication module
- Measurements conforms to ICNIRP 2020 and other national standards
- 7 inch capacitive touchscreen, 5 hours operation time

EM Field Strength Calibrator



EM Field Strength Calibrator

EM9N/EM9D Broadband Electromagnetic Field Meter

- Frequency range 1 Hz to 40 GHz
- Optional probes T-400K (1 Hz to 400 kHz), T-6G (100 kHz to 6 GHz), T-8G (100 kHz to 8 GHz) and T-40G (20 MHz to 40 GHz)
- Built in GPS/Beidou receiver, electric compass, temperature and humidity sensors, 2 meter laser rangefinder and camera
- Optional 4G SIM card to capture base station ID
- Bluetooth, Wi-Fi and USB Type-C communication interface
- Cloud sever integration with work-order management
- Environmental safety monitoring with on-site photos, measurement screen capture, screen recording, and report generation for public/environment safety law enforcement
- Built-in 8-hours battery operation for long term monitoring

Cable & Antenna and Network Analyzers



E7000L Cable & Antenna Analyzer

- Cable and Antenna Analyzer, 2 MHz to 4.4 GHz
- Internal E-Calibration Module, 2 MHz to 4.4 GHz
- Internal RF Power Meter Module, 20 MHz to 4.4 GHz
- Fiber Inspection Scope option
- Built in Optical Power Meter and VFL module
- External GPS option



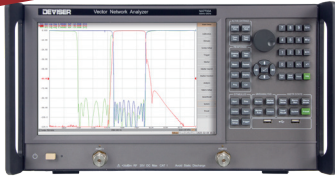
E7040B/E7060B Cable & Antenna Analyzer

- Cable and Antenna Analyzer, 2 MHz to 4.4 GHz/6.1 GHz
- External precision “Y” Open/Short/Load Calibration Combination N(m), DC-6GHz and E-Calibration Module
- External In-line Power Sensor
- External Terminal Power Meter
- External GPS option



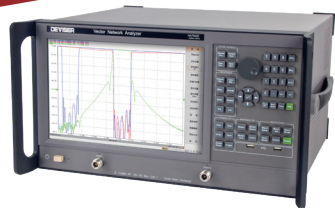
E7042B/E7062B Signal PROFILER RF Analyzer

- Cable and Antenna Analyzer, 2 MHz to 4.4 GHz/6.1 GHz
- Spectrum Analyzer, 9 kHz to 4 GHz/6 GHz
- External precision “Y” Open/Short/Load Calibration Combination N(m), DC-6GHz and E-Calibration Module
- Interference Analyzer
- Fiber Inspection Scope option
- External GPS option

New

NA7700A 14/20GHz 2/4-Port Vector Network Analyzer

- 12.1 inch 1280 x 800 TFT touchscreen
- Wide frequency range: 300 kHz to 20 GHz
- High dynamic range: >130 dB
- Very low noise floor: <0.005 dB rms (at 3 kHz IFBW)
- Fast measurement speed: 40 μ sec/point
- Accurate error correction and calibration function
- Connect with other systems via USB, LAN and GPIB ports
- Connect with MES system enables automated factory production testing

New

NA7662E/NA7692E 2/4-Port Vector Network Analyzers

- Frequency range: 100 kHz to 9 GHz
- High dynamic range: >138 dB
- Very low noise floor: <0.005 dB rms (at 3kHz IFBW)
- Fast measurement speed: 40 μ sec/point
- Accurate error correction and calibration function
- Connect with other systems via USB, LAN and GPIB ports
- Software-enabled updates and measurement options can be processed without the need to return to the factory or a factory authorized service center
- Connect with MES system enables automated factory production testing

TV/Cable/Satellite Signal and Spectrum Analyzers



S7200 Series TV Signal Spectrum Analyzer

- All-in-one Digital TV Spectrum Analyzer, 4 to 2150MHz
- DVB-C/C2, DVB-T/H/T2, ATSC, ISDB-T, DTMB, DVB-S/S2, DAB/DAB+ demodulation
- Decodes multiple video standards: MPEG-2/4, H.264/H.265, VC-1, AVS/AVS+
- Compatible with 4k, 1080p, 720p and 576i
- Support DVB-CI and BISS 1/E
- Transport Stream Analysis: RF, ASI, and IP input
- IPTV Analysis
- Optical power meter and optical receiver
- Capacitive touchscreen

DS2831 Digital TV Spectrum Analyzer



- Real spectrum analyzer performance from 4 MHz – 1.22 GHz (optional extension to 2.15 GHz)
- Fast Spectrum Analyzer: detect and troubleshoot ingress with exceptional sensitivity of -63.5dBmV @ 300KHz RBW.
- Non-intrusive, colour-coded spectral density persistence test, showing transient noise hiding under upstream bursty signalling
- MER Measurement: to 47 dB + MER with 48 hours statistical recording @ 1 second resolution
- Analog TV, SC-QAM & OFDM/A: troubleshoot typical analog interference and distortions as well as SC-QAM, OFDM & OFDMA performance
- Time-Domain EVS Measurements: uncover interference from LTE signals under downstream SC-QAM carriers with no service interruptions
- Characterize OFDM/A carrier performance and DOCSIS 3.1 cable modem performance
- 7" Capacitive Touchscreen: with excellent touch response and 7 hours of operating time

DS2500Q/DS2600C Digital TV QAM Analyzer



- High-speed Spectrum Analysis: 4 to 1220 MHz, (optional extension to 2.15 GHz, DS2600C only)
- Integrated DOCSIS 3.0 Cable Modem
- Integrated Upstream Signal Generator (no FEC)
- Supports ITU-T J.83 Annex A/B/C
- Error Vector Spectrum: identifies interference signals under SC-QAM carriers, with no service interruptions
- Spectrum Persistence Analysis
- Auto Test

DS2460Q QAM Analysis Meter



- Digital TV tests include Average Power, MER, BER, BER Statistics, Constellation
- Analog TV measurements include: Level, V/A, HUM, C/N
- Auto-generates and saves up to 20 custom channel plans from a cable drop
- Auto test with pass/fail limits speeds up tests and simplifies results interpretation
- USB Micro 2.0 port for PC data transfer, PING test
- Optical Power Meter and VFL module option
- TDR option

C1200+ DVB-C Meter



- Analog TV Analysis: Level, Tilt, C/N, Scan and Trunk Voltage
- Digital TV Analysis: Power Level, MER and BER
- 128×64 pixels back-light LCD
- Large lithium battery capacity, over 4 hours working time
- Software upgrade and channel plan edit via USB interface



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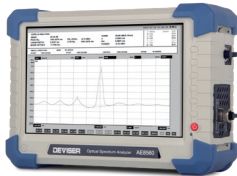
Fiber Optics

Optical Spectrum Analyzer



AE8600D High Performance Optical Spectrum Analyzer

- Single mode and multi-mode wavelength range from 600 nm to 1700 nm
- Wide range of power measurement from +20 dBm to -90 dBm and wide dynamic range up to 73 dB typical
- Outstanding wavelength & power measurement accuracy with λ resolution up to 0.02nm and built-in calibration source (Option)
- WDM, Laser, and EDFA test modes
- 10.1" 1280x800 TFT touchscreen LCD
- Multiple data storage and interface – LAN (RJ-45), USB, RS232, GP-IB (Option)
- Customizable auto-test scenario



AE8560 Portable Optical Spectrum Analyzer

- Single mode and multi-mode wavelength range from 600 nm to 1700 nm
- Wavelength resolution 40 pm
- Wide range of power measurement from +15 dBm to -85 dBm and wide dynamic range up to 60 dB typical
- WDM, EDFA, Drift, Spectral transmittance, Laser analysis test modes
- Industry' s smallest OSA, built in rechargeable battery for 3 hours operation
- Built-in calibration light source compensates for on-site environmental changes, vibration
- 10.1 inch high-resolution LCD, weight less than 3kg, convenient for on-site application

Turnable Lasers



Available in Q4 2023

TLS1056 High-performance Tunable Laser

- Continuously adjustable wavelength in all bands
- Wide tuning range lineup: 1480 to 1630 nm
- Bidirectional scanning speed > 100nm/s
- 12 dBm optical power output across the range
- Ultra-low spontaneous emission and narrow line width
- Built in real-time wavelength meter to ensure wavelength accuracy

OTDRs



AE3100 Series Handheld SM/MM/PON Optimized OTDR

- High performance OTDR for FTTx and RFoG network
- Optimized for verifying PON splitters
- Multi wavelengths and models to meet your individual needs
- Broad dynamic range coverage (SM 28 – 46dB, MM 25/27dB)
- “Fiber Path” intelligent analysis feature for less experienced OTDR users
- Built in Optical Power Meter, Optical Light Source and VFL modules
- Innovative “Seeker” and “Worker” function simplifies testing and reduces troubleshooting time in field



AE1000 Series OTDR

- Future-proof, all-in-one solution includes optical, cable TV analysis, and metallic testing for verifying the installation of FTTx, RFoG, and RF PON networks
- Portable Lightweight and compact design makes for easy mobility throughout the network
- Long battery life enables the user to test all day without interruptions to charge the equipment
- Easy learning curve with simple GUI
- Fiber Path™ and Auto Test features simplify testing, reducing the need for OTDR trace interpretation
- Validate proper levels for both optical and cable TV installation, minimizing repair truck rolls and increasing customer satisfaction



AE1001 Mini OTDR

- Ultra-portable, lightweight OTDR for FTTx networks
- 4.3 inch LCD touchscreen is visible in high- or low-light conditions
- Fast dual-wavelength test generates results in ≤ 5 seconds
- Excellent stability and repeatability
- Power-packed ~2-lb meter runs continuously for over 4 hours
- Save >160k OTDR traces with 16 GB of data storage

Multi Optical Tester



AE919 Series Multi Optical Tester

- High performance meter for construction & maintenance of FTTH+IP and FTTH+RF networks
- 5 inch 800x480 LCD touchscreen places power and convenience at your fingertips
- FTTH+IP apps include IPTV, ONU, Fiber Path™ link mapper
- FTTH+RF apps include QAM, ONU, TDR, Fiber Path™ link mapper
- Lightweight, ultra-portable "mini" design for extended field use
- Excellent stability and repeatability
- Multiple options for your measurement needs, includes VFL, PON power meter, and light source
- Numerous data transfer options: LAN, USB, & more

Optical Power Meter



AE280/AE290 Series Optical Power Meter/AE130 Series Mini Optical Power Meter

- Over 100 hours' working time with 2x AA rechargeable batteries
- New features: pair with LS320/330 Series Light Source to auto-verify source wavelength and run dual- λ testing
- Identify fiber bends and faults with VFL function optional module
- Auto shutdown and self-calibration
- USB interface and Toolbox software



EP320/330 Series PON Power Meter

- Simultaneously verifies the power levels of 3x PON wavelengths (1310 nm, 1490nm, and 1550nm)
- Pass/fail analysis helps user quickly interpret results and ensures consistent PON turn-up
- Green light/red light LED helps user easily identify pass/fail results
- Rugged unit is water- and shock-resistant



EP350 PON Power Meter

- Multiple PON technologies supported on a single unit: GPON, EPON, XG(S)-PON, NG-PON2, and RFoG, etc
- Pass-through mode for ONT/ONU verification
- USB and Bluetooth connectivity
- Access test results from your smartphone
- Pass/fail limits and data storage for easy analysis
- Compact, rugged designed for easy mobility through the network
- Visual fault locator option



AE500/AE600/AE700 WDM Optical Power Meter

- AE500 (8 channels) / AE600 (18 channels) CWDM Channel Analyzer
- AE700 DWDM Channel Analyzer covers C band ITU-T grid channels
- Compact size, built-in lithium battery for all-day testing with 5 hours' continuous operation
- With interchangeable connectors, switch easily among FC/SC/ST adaptors
- Store up to 1000 data groups; manage them with Toolbox PC software
- Optical power meter and Visual fault locator

Optical Multi Meters



EP720 Series Optical Multi Meter

- All-in-one optical test set - combines a light source, optical power meter, and visual fault locator
- Ideal for CATV, FTTx, and PON applications
- Durable, palm-sized frame ideal for field operation
- Long battery life for all-day testing



Available in Q3 2023

EP730 OLTS Handheld Optical Loss Tester

- Android based smart terminal, 6 inch colour touchscreen
- Accurate Insertion loss, ORL and length testing through single-ended testing by 2-3 wavelengths
- Durable, palm-sized frame ideal for field operation
- Built in visual fault locator, auto wavelength and tone detection
- Connecting with other smart devices through Bluetooth and WiFi, enable data and work-order transfers easily during field testing

Optical Attenuator and Light Sources



OA60 Handheld Variable Optical Attenuator

- Installation and maintenance of optical networks, including CATV & FTTx
- 60dB attenuation dynamic range; 0.01dB resolution
- Useful for R&D; training; and for calibrating test instruments
- Up to 80 hours' working time with included batteries
- LCD backlight for low-light test environments



LS320&LS330 Series Handheld Light Source/ LS210&LS220 Series Mini Light Source

- High stability multi-wavelength single(multi) mode laser output
- CW mode or modulated mode: 270Hz, 1kHz, 2kHz
- Built in VFL module
- 30 hours' operation time
- Pair with AE280/290 Series OPM to auto-verify wavelengths and run dual-λ testin

Transport Testing



Available in Q4 2023

TC801 100G Portable Network Transmission Analyzer

- Simplifies multi-technology testing with an all-in one dual 100G handheld unit
- Compact and portable
- Easy-to-use GUI with 10.1-inch touchscreen for better operability
- Test interfaces support 10/100/1000 Base-T SFP/SFP+ and QSFP+/QSFP28/CFP4
- Supports comprehensive rate testing ranging from PDH (2M) through to 112G OTU4
- Complete support of protocols including Ethernet, OTN, SDH, PDH, CPRI, eCPRI



TC722 All-in-One 10G Transport Tester

- Ethernet test for Enterprise and Service providers
- Two 10Gbps SFP+ ports, two 10/100/1000Mbps RJ45 ports
- Dual ports can test different setups independently
- Complete support of protocols including Ethernet, E1, SDH, OTN, PTN, IP-RAN
- 7 inch LCD touchscreen; professional, efficient UI experience
- Optical power test



TC601+/TC602/TC603 Series Handheld Gigabit Ethernet Tester

- Complete solution for activating, verifying & fault-diagnosing Ethernet service from 10 Mbit/s to 1 Gbit/s quickly and easily
- Single/Dual 1 Gbps electrical and optical interface
- Ethernet, E1 and IPRAN Test
- Intelligent loopback, traffic analysis & statistics and alarm detection functions
- Portable and light weight
- Easy-to-use GUI with 5 inch touchscreen



TC500 Ethernet Cabling Tester

- CAT5/CAT5E ethernet cable installation and certification
- Tone generator, PING and BER testing
- Graphical user interface simplifies set-up, and eliminates errors
- Generate Reports with ToolBox Software

Headquarter -Design and Manufacturing (23000 m²)





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