Rev 1.7
02.08.2011

Military Outdoor Spectrum Analyzer
SPECTRAN® NF-XFR

Worldwide first "military-standard" Spectrum Analyzer!

Highlights

◆ Highest performing fully rugged laptop and world´s most sensitive Handheld Analyzer in one device

◆ Ready to go, LCS-Analyzer-Software already installed

◆ Ballistic Armor™ Protection System to meet or exceed real world and military standards (MIL-STD-810F)

◆ Built tough for tough environments

AARONIA AG
WWW.AARONIA.DE

Made in Germany

Technical details

Notebook (based on Dell Latitude E6400XFR)

- Processor: Intel Core 2 Duo P9600(2,66GHz,1.066MHz,6MB) nVidia Quadro NVS 160M, 256MB with express-card and Fingerprint Reader
- 14.1" WXGA (1280 x 800) wide-aspect transmissive display with DirectVue™ technology for outdoor readability
- Memory: 4096MB (2x2048) 800MHz DDR2 Dual Channel
- Primary Storage: 64GB Solid State Drive
- Battery: 6-cell primary battery
- Wireless: Intel WiFi Link 5100 (802.11 a/b/g/n 1X2) 1/2 MiniCard with Centrino label
- 10/100/1000 Gigabit Ethernet-network card
- Keypad: Internal English Qwertz with background light
- Operating System: Windows XP Pro SP3 with Windows Vista Business SP1 Medias
- Ports: IEEE - 1394, docking connector, USB 2.0 (x4), VGA, Display Port, RJ-11 (optional), RJ-45, eSATA, USB PowerShare, headphone/speaker out, mic (all protected behind sealed doors)
- Multi Media: 2 speakers
- Independently Tested to MIL-STD-810F for: 4ft Transit Drop, Aggravated Rain, Blowing Dust, Vibration, Functional Shock, Humidity, Salt Fog, Altitude, Explosive Atmosphere,Temperature Shock, and Temperature Extremes (Operating: -20ºF to 145ºF (-29ºC to 63ºC); Non-Operating: -58ºF to 160ºF (-50ºC to 71ºC))
- IP-65 Certified Protection – Dust-Tight and Protected against Pressurized Water Ingress
- UL1604 Certified for Hazardous Locations (Class 1, Division 2, Zones A, B, C, D)
- Weight: 8.5 lbs/3.9 kg
- Width: 13.9"/353.06 mm
- Depth: 10.1-11.5"/257.6-293.1 mm
- Height: 2.2"/55.88 mm

Spectrum Analyzer (based on Spectran NF-5030)

- Frequency range: 1Hz -20MHz*
- Typ. accuracy: 3%**
- **65 MSPS** (Option 005)
- Lots of options
- NEW: 30MHz Option
- Typ. level range DDC Analog in: **200nV** to 200mV / -150dBm (Hz)
- Superfast FFT spectrum analysis
- High-performance DSP (Digital Signal Processor)
- Frequency and signal strength display!
- High-resolution multi-function display
- True RMS signal strength measurement
- Average (AVG) measurement
- Internal data logger
- Internet Flash Software-Updates

Application examples SPECTRAN® NF-XFR Spectrum Analyzer

Analysis and measurement of:

- traction power
- power lines
- power cables
- lamps
- power supplies
- transformer
- DSL
- ADSL
- VDSL
- various home appliances, industry and office up to 30MHz

Description

Real World Rugged

Built for tough environments, the SPECTRAN NF-XFR rises to the challenges you face every workday. The NF-XFR is built to be ready out of the box to withstand pounding rain, blowing dust and dirt, extreme temperatures, accidental drops and more.
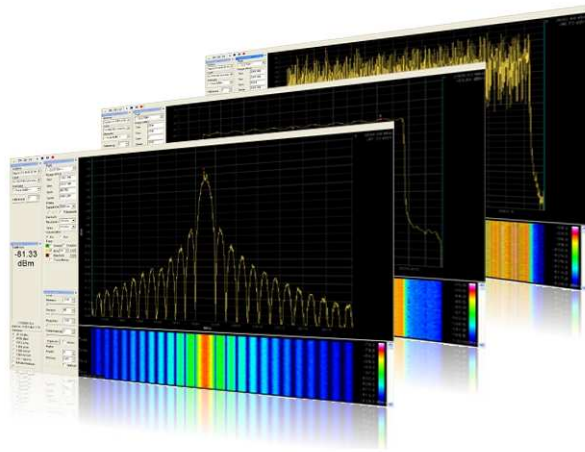Key rugged features include:

◆ The exclusive Ballistic Armor Protection System featuring PR481™ chassis material provides twice the impact strength versus traditional magnesium alloy.
◆ The SPECTRAN NF-XFR with Ballistic Armor Protection enables excellent protection and is the first in its class to meet a 4ft drop specification.
◆ With PrimoSeal™ technology we provide the highest combined Ingress protection rating (IP65), for enhanced protection against blowing dust and liquid.

Integrated Spectrum Analyzer (based on the Spectran NF-5030)

The PROFESSIONAL PC analysis software demonstrates SPECTRAN's vast capabilities.

◆ HIGH-RESOLUTION!, freely scalable, coloured spectrum display with falloff function.
◆ Freely positionable windows for comfortable entry of frequency, RBW, sweeptime etc. etc.
◆ Up to 10 markers with frequency and level display.
◆ Intuitive zoom control with very comfortable frequency adjustment.
◆ High quality "waterfall"-display with timecode. Colour scale freely configurable. Size freely scalable. Optional display of data directly on top of the graph by pointing with your mouse and CTRL-clicking!
◆ High-resolution Slot Analyser with 3D display!
◆ SUPER-LOGGER: all data can be written to disk continuously. File format is readable by spreadsheet applications, for creating custom reports, etc.
◆ Various pre-defined profiles for RFID, power, TV, TFT´s, ADSL etc. etc. for instant recall. Incl. optimal parameters and extensive channel information! Freely programmable and extensible!
◆ Independant main display with SIMULTANEOUS display of dBm, dBµV, V/m, W/m2 and A/m, each with AUTORANGE. Freely transposable and scalable.
◆ Exposure limit display with various profiles (ICNIRP, Salzburg precautionary values, ECOLOG, etc. etc.). Freely programmable with a virtually infinite amount of display options.
◆ Functionality to update firmwares.
◆ etc. etc. etc.

Screenshots from the SPECTRAN NF-XFR

Inspired Design

SPECTRAN NF-XFR features securely sealed port covers and a wide range of key peripherals to work wherever you need it to.

◆ Work in direct sunlight with the large 14.1" wide-aspect LCD featuring DirectVue™ Technology LCD.
◆ Vehicle docking allows flexibility for police and field technicians to mount systems directly in their vehicles where they work.
◆ Secure, simple, locking doors with PrimoSeal™ for exceptional protection while working in wet or dusty conditions.

Uncompromising Performance

The high performing, fully rugged laptop is the first in its class to ship with both Intel® Core™2 Duo Processor with vPro™ technology.
The SPECTRAN NF-XFR has brains as well as brawn.

◆ QuadCool™ Thermal Management System enables the XFR to meet the MIL-STD for temperature extremes and supports world-class performance, while running the latest Intel® Core™2 Duo Processors.
◆ Extended field use batteries equipped with ExpressCharge enables primary battery re-charge times up to 2 times faster than Panasonic CF-30.

Included in delivery

◆ SPECTRAN NF-XFR Outdoor Spectrum Analyzer
◆ SMA-Tool
◆ Battery
◆ Battery charger
◆ Detailed english manual

The SPECTRAN NF-XFR was built for tough environments