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DWDM
Instruments and Components



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GN Nettest
The colors of WDM

Tunable External Cavity Lasers

TUNICS-*Plus*

TUNICS-*Plus* is the result of many years of GN Nettest leadership in high-performance tunable external-cavity lasers. Based on TUNICS ultra-stable self-aligned cavity design, it now uses a new active control to ensure a perfect mode-hop-free operation over its full wavelength range. It also integrates an internal wavelength referencing system. TUNICS-*Plus* models comfortably cover the full DWDM range from 1440 nm to 1640 nm and up to +10 dBm output power.



TUNICS-*Purity*

TUNICS-*Purity* provides the latest breakthrough in external-cavity laser-diode performance. It utilises a new proprietary intra-cavity filtering scheme to fully eliminate background ASE noise and emit a truly pure single-mode laser line without any compromise to wavelength stability. TUNICS-*Purity* models cover the S-, C- and L-band from 1465 nm to 1625 nm and feature up to +3 dBm output power.



TUNICS-XS

TUNICS-XS is optimized for the eXtended Short wavelength ranges around 1300 nm and 1400 nm. Its tuning mechanism enables smooth scans over more than 70 nm.



TUNICS-BT

TUNICS-BT is a general-purpose benchtop "work-horse" version, offering the basic features of the TUNICS prime benchtop models in a more compact package. With its affordable price, TUNICS-BT should equip the bench of each and every contributor in the field of optical fiber communications.



TUNICS-OM

TUNICS-OM is a modular 8-channel tunable source with manual adjustments for wavelength and power level. It is the popular multi-wavelength solution when wavelengths are occasionally modified. TUNICS-OM is now available with an ASE-noise-free option, which brings a key improvement in the testing of very high bit rate DWDM systems.



8-Channel Modular platform for Optical Sources and Amplifiers

OSICS

OSICS is a new generation platform with full remote control that offers the highest flexibility and largest choice of modular optical sources and amplifiers. OSICS features a complete line of modular sources including tunable external cavity lasers with TUNICS technology, distributed feedback laser diodes and broadband amplified spontaneous emission fiber sources.

In addition, OSICS is capable of hosting erbium-doped fiber amplifier modules. Its completely versatile design offers up to 8 different plug-in modules that can be mixed and matched within a single 19" mainframe: the highest flexibility to fulfill the optical source and amplifier requirements in fiber-optic component and DWDM system testing.

OSICS-ECL

The ECL module is an external cavity laser based on advanced TUNICS technology with more than 80 nm tuning range. The wavelength and the optical power can be easily selected and controlled from the front panel of the instrument.
In addition, a full suite of internal and external modulation capabilities is available for the module and the OSICS platform.



OSICS-DFB

The DFB module is a high-performance distributed feedback laser diode. Its wavelength is user-selected on the ITU-T grid. Additionally, fine tuning the wavelength over 1.8 nm (typ.) and adjusting the optical power can be performed from the front panel of the instrument for fast and simple operation.
OSICS-DFB covers both the C- and L-band and features +10 dBm or +13 dBm output power.
OSICS-DFB is also available at 1310 nm.



OSICS-ASE

The ASE modules feature superluminescent broadband sources based on the Amplified Spontaneous Emission (ASE) of an erbium-doped fiber, pumped by a high-power 980 nm laser diode. A remarkable internal proprietary spectral shaping provides more than +15 dBm output power with excellent stability and a clear, near-gaussian output spectrum centered around 1555 nm.



OSICS-EDFA

The EDFA module features a high-performance erbium-doped fiber amplifier that operates in the C-band. This single pump version offers an outstanding +17 dBm of saturated output power, and a low 4.5 dB (typ.) noise figure, regardless of signal and pump power levels.



Fiber Amplifiers

FIBERAMP-BT 17 AND -BT 20

> C-band high-output power fiber amplifier

FIBERAMP-BT 17 and -BT 20 are erbium-doped fiber amplifiers operating in the C-band. FIBERAMP-BT 17, a 980 nm-pumped erbium-doped fiber amplifier, offers +17 dBm of saturated output power in a full-featured benchtop instrument. FIBERAMP-BT 20 is a double-pump version featuring +20 dBm output power for those power-hungry applications where 100 mW at 1550 nm make the difference. The ideal high-performance amplifiers for plug-and-play use all around the lab.



FIBERAMP-BT L

> L-band fiber amplifier

FIBERAMP-BT L is an erbium-doped fiber amplifier dedicated to the 1570-1610 nm window which offers +17 dBm of saturated output power. Ideally-suited for application that require amplification and high-output power in the L-band.

FIBERAMP-BT F

> Flat & fixed-gain fiber amplifier

FIBERAMP-BT F is a flat & fixed-gain EDFA providing a constant 22 dB gain with a 1 dB (typ.) flatness over 30 nm in the C-band window and input-signal level independence over a remarkable 15 dB dynamic range. An all-optical solution for unpredictable add-and-drop situations in DWDM systems.



FIBERAMP-SM 17

> Universal fiber amplifier module

FIBERAMP-SM 17 is a compact and rugged EDFA module with full-remote control interface. The perfect OEM building block for system designs.



Broadband Sources

FIBERWHITE

FIBERWHITE is a high-power broadband erbium-doped fiber source emitting in the 1.55 µm telecommunication window.
FIBERWHITE-SP maximizes the spectral width while *FIBERWHITE-IN* offers a near-gaussian spectrum. More than +15 dBm of unpolarized 1550 nm light in a single-mode fiber to test wavelength dependent devices or for white light interferometry.
FIBERWHITE-L is dedicated to the L-band and provides an excellent stability and a spectral width exceeding 45 nm.



DWDM
Optical Spectrum Analyzer

WALICS

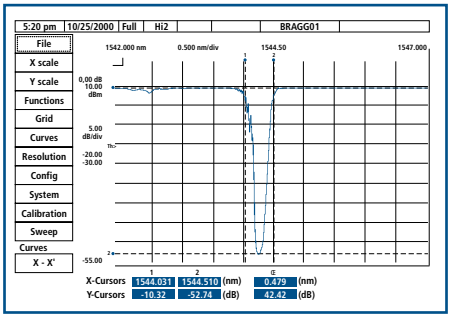
WALICS is an optical spectrum analyzer optimized to fulfill the demanding needs of Dense Wavelength Division Multiplexing (DWDM) communication systems. It operates over the full 1450 to 1650 nm range for maximum flexibility and is optimized for performance in the 1500 to 1620 nm range, covering the C- and L-band where most DWDM systems operate.

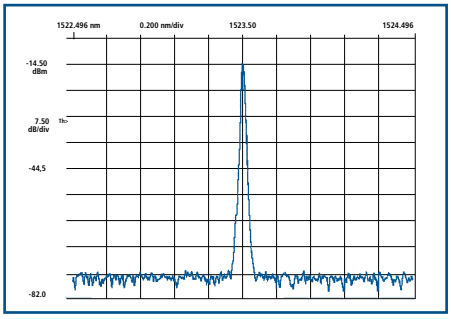
Capable of handling up to 256 channels simultaneously, it locates the active channels automatically and measures their center frequency (or wavelength), optical power (-80 dBm typ. to +20 dBm), and signal-to-noise-ratio. Its unsurpassed, sharp-edged spectral response enables it to discriminate extremely closely-spaced (25 GHz) channels.

WALICS offers a large screen and user-friendly software. The user can choose between two display modes: a table bar graph display of 20 channels for accurate measurements or a full-spectrum graphic display with a clean-cut optical resolution of less than 20 pm.

Its narrow optical bandwidth and its high dynamic range allow fine spectral analysis of passive components such as fiber Bragg gratings. WALICS offers all the necessary features of a high-performance optical spectrum analyzer. Combined with a high-power broadband source such as GN Nettest's FIBERWHITE, the spectral transmission of a Bragg grating can be measured with more than 40 dB extinction. With its internal wavelength reference, WALICS features a remarkable accuracy of ±40 pm over 120 nm range.







Optical Coherence Domain Reflectometer

WIN-R

WIN-R is particularly suited for the non-destructive internal analysis of components such as angled polished connectors, isolators, integrated-optic circuits, Bragg gratings and pigtailed laser diode modules. WIN-R measures magnitude and location of reflections smaller than 100 dB and less than 50 µm apart in guided-wave components.



Modular Portable Instrument

UBICS

The UBICS family features extended capabilities with rugged, modular, portable instrument making it easier and faster to take measurements in the field as well as in production.

The three modules, UBI-WALICS, UBI-PMD and UBI-FILTER can be easily plugged into the UBICS mainframe to obtain fast, stable, and accurate measurements in both fixed and field applications.

UBI-WALICS

> DWDM Multi-wavelength spectrum analyzer

UBI-WALICS is a highly-compact and modular multi-wavelength spectrum analyzer optimized for testing DWDM systems down to 50 GHz spacing. This multi-purpose instrument locates and tracks all active channels, up to 256 simultaneously, and monitors their critical parameters in quasi-real time.



UBI-PMD

> PMD analyzer

UBI-PMD is a portable field instrument that measures PMD from 0.06 ps to 40 ps. Its modular design is ideal for both installed cables and for fiber manufacturing. The UBI-PMD builds on GN Nettest's proprietary broad-spectrum interferometric technique. Combined with the WIDE broadband source UBI-PMD operates at both 1.3 µm and 1.5 µm.



UBI-FILTER

> DWDM tunable flat-top filter

UBI-FILTER is a tunable filter which exhibits a flat-top spectral response and can be tuned from 1450 to 1650 nm with a resolution of 5 pm. UBI-FILTER selects a channel on a DWDM system. Its proprietary design provides a remarkable flat-top spectral response, available with three optical bandwidths (0.15 nm, 0.25 nm, and 0.41 nm @ -1 dB). The exceptional square response of UBI-FILTER results in a low sensitivity to channel central wavelength misalignment and in a high rejection of adjacent channels.



PMD Analyzer

WIN-PMD

WIN-PMD is an interferometric PMD analyzer meeting all PMD measurement requirements in one turn-key, stand-alone package. It is the ideal tool for fast, stable, and extremely accurate measurements from 0.06 to 80 ps on installed cables or in fiber manufacturing.



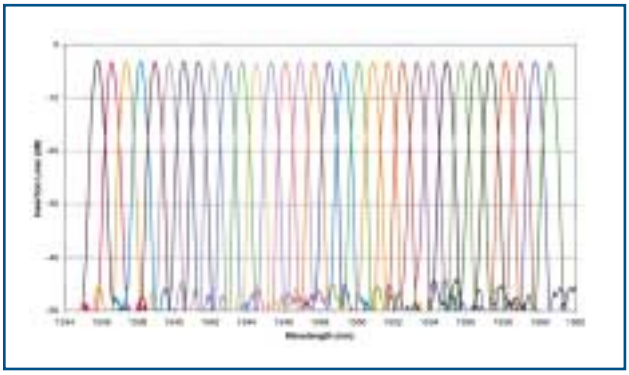
DWDM Multiplexers & Demultiplexers

MICS

MICS are high-performance multiplexers-demultiplexers intended for 50 GHz or 100 GHz-spaced systems. Available with 16, 32 or 40 channels, they accurately select different channels with a negligible -40 dB (typ.) interchannel crosstalk and an extremely low insertion loss of 3 dB (typ.). MICS may be used either as multiplexers or demultiplexers. Due to their intrinsically athermal construction and hermetically-sealed package, they do not require any active temperature control.

MICS are robust and able to withstand the harsh environments encountered in the field. The MICS components have been subjected to a comprehensive qualification program according to Telcordia Generic Requirements (GR-1209-CORE), including extreme mechanical and environmental qualification tests. MICS are the perfect MUX/DEMUX solution for demanding DWDM systems.





Polarization-State Controller

LEFEVRE's LOOPS

LEFEVRE's LOOPS are a user-friendly implementation of the now-classical technique designed by its inventor. An 8-channel unit is also available in a 19" cabinet. LEFEVRE's LOOPS provides convenient adjustment of the state of polarization in fibers.



DWDM
Instruments and Components

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GN Nettest develops, manufactures and markets advanced equipment and systems for the test and measurement of telecommunication, data communication and optical networks. We provide carriers, vendors, enterprises and research laboratories with the network testing solutions they need to troubleshoot and optimise performance in today's complex, hybrid networks and in those planned for tomorrow.

GN Nettest undertakes a continuous and intensive product development program to ensure that its instruments and systems perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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The colors of WDM

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