SCN-80   S-line Scan 800

Basic characteristic

▲ **S-line Scan 800** is interrogator with one optical channel typically used as a base module within the S-line product family.

▲ **S-line Scan 800** is extendable with S-line Switch, Splitter or Computer modules.

▲ **S-line Scan 800** is provided with Sentinel 2.0 and Sentinel D measurement software.

▲ **S-line Scan 800's** depolarized light source greatly reduces unwanted polarization effects.

▲ **S-line Scan 800** can be also simply re-configured into S-line Scan 804 or 804D, S-line Scan 816 or S-line Scan 836 by stacking on the 1x4, 1x4D, 1x16 or 1x36 switch modules.

Performance properties

Number of channels		1
Scanning frequency[1]		up to 5 kHz
Wavelength range		80nm (1510-1590nm)
Operational Temperature range		-5°C to +50°C
Storage Temperature range		-10°C to +60°C
Dynamic range [2]		30dB
Power budget [3]		18dB
Accuracy	@ 25°C // @ FOTR [4]	TBT // ±13pm
Repeatability (Precision)	@ 25°C // @ FOTR [4]	6pm // 12pm
Resolution		1pm
Laser Class	IEC 60825-1	1

[1] Slower data logging is available through down sampling.

[2] Maximum attenuation that can be inserted in the optical line between the interrogator and the measured FBG, or series of FBG's on a same power level (see Figure 1).

[3] Maximum attenuation that can be inserted between the FBG's with the highest and lowest power level in one channel (see Figure 2).

[4] FOTR = Fully Operational Temperature Range (-5°C to +50°C).

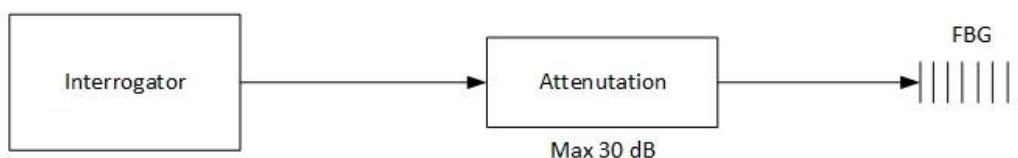All parameters tested with FBG's FWHM 200pm and 40% Reflectivity.

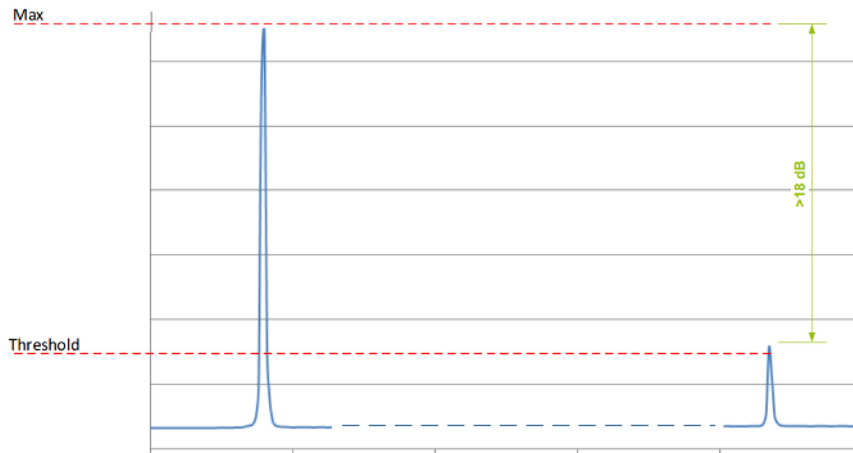Figure 1: Max. allowed attenuation within optical line (bidirectional)

Figure 2: Power budget

Physical properties

Dimensions (without cable)	300x200x42mm
Weight (without cable)	2,25kg
Connector type	FC/APC
Power consumption	6W (9-18V) (universal adapter included)
Interface	USB

Packaging

Standard - Cardboard box with dimensions: 364x351x140mm (see Figure 3)
Optional - Ruggedized transportation case with dimensions: 502x401x188mm (see Figure 4)

Quality statement

All interrogators are 100% tested at SYLEX
Interrogator is manufactured according to ISO 9001:2008 and ISO 14001:2004
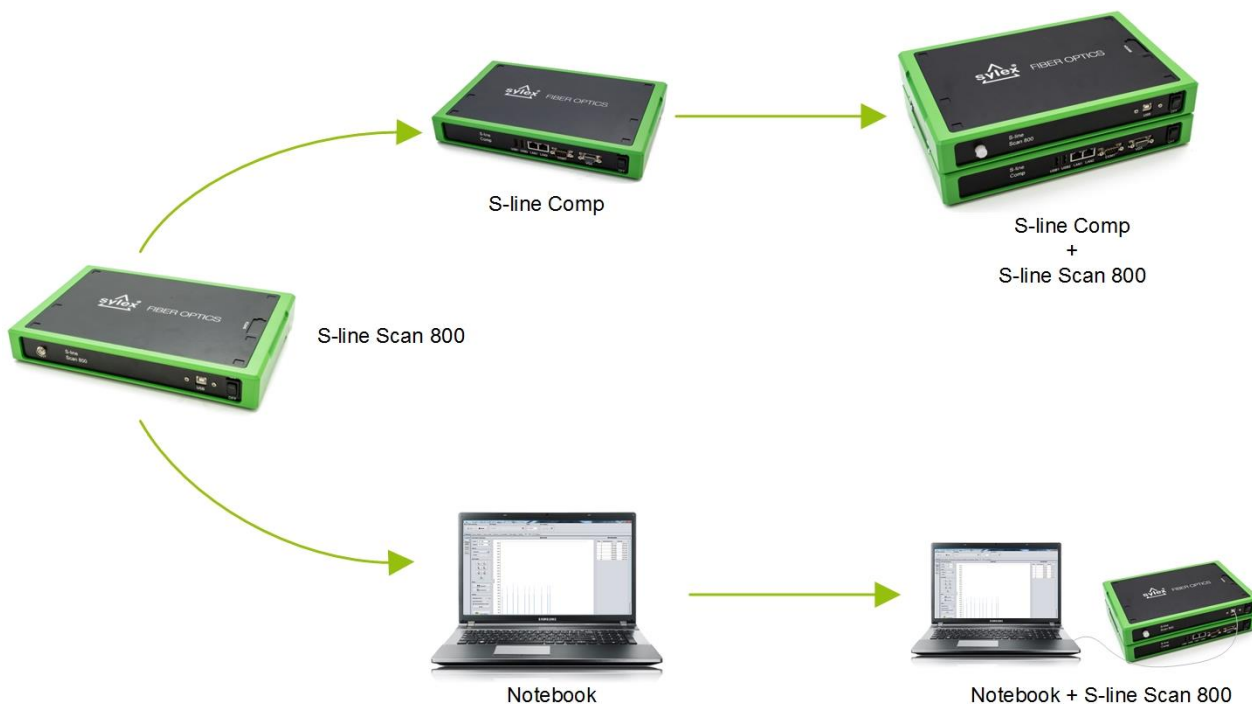
Accessories (included):

▲ Sentinel 2.0 – automated data acquisition and evaluation software

▲ Standard extension patchcord (SPA-02)

▲ Power adapter, 90-264V input range, 12V/2A output, with EU-UK-US compatible sockets

Recommended accessories within S-line family:

▲ S-line Switches – 1x4 (SWx-04), 1x16 (SWS-16), 1x36 (SWS-36)

▲ S-line Comp (SPC-02)

▲ S-line Splitters – 1x2 (SPL-02), 1x4 (SPL-04), 4x16 (SPL-16)

▲ S-line View 1.0 – web-based data management software for collection, analysis, validation and visualization of measured data

▲ Transportation case

Communication options example

S-line Comp

S-line Scan 800

S-line Comp
+
S-line Scan 800

Notebook

Notebook + S-line Scan 800

Packaging options

Figure 3: Cardboard box as standard packaging

Figure 4: Waterproof, crash proof and dust proof transportation case as optional packaging

For more information contact our sales team at info@ftmesures.com
* Specifications are subject to change without notice