

SCN-47 S-line Scan 436

Basic characteristic

- ▲ **S-line Scan 436** is interrogator with 36 optical channels consisting of S-line Scan 400 module and S-line Switch 1x36 module.
- ▲ **S-line Scan 436** is extendable with S-line Splitter or Computer modules.
- ▲ **S-line Scan 436** is provided with Sentinel 2.0 measurement software.
- ▲ **S-line Scan 436** can be simply re-configured into S-line Scan 404 or S-line Scan 416 by replacing the 1x36 switch with 1x4 or 1x16 switch modules.



Performance properties

| | | |
|----------------------------------|--------------------------------|--|
| Number of channels | | 36 |
| Scanning frequency ¹⁾ | | 0.5Hz (72 seconds through all 36 channels) |
| Wavelength range | | 40nm (1528-1568nm) |
| Operational Temperature range | | -5°C to +50°C |
| Storage Temperature range | | -10°C to +60°C |
| Dynamic range ²⁾ | | 15dB |
| Power budget ³⁾ | | 15dB |
| Accuracy | @ 25°C // @ FOTR ⁴⁾ | TBT // ±20pm |
| Repeatability (Precision) | @ 25°C // @ FOTR ⁴⁾ | 8pm // 15pm |
| 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.

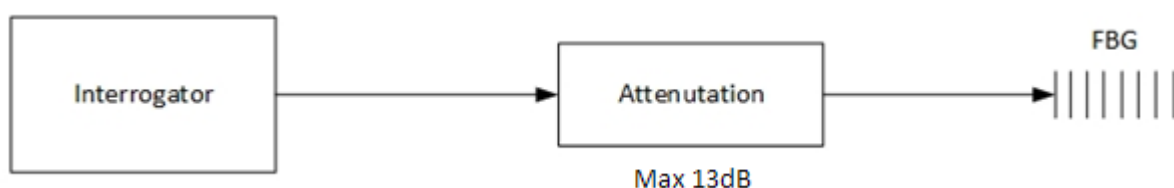
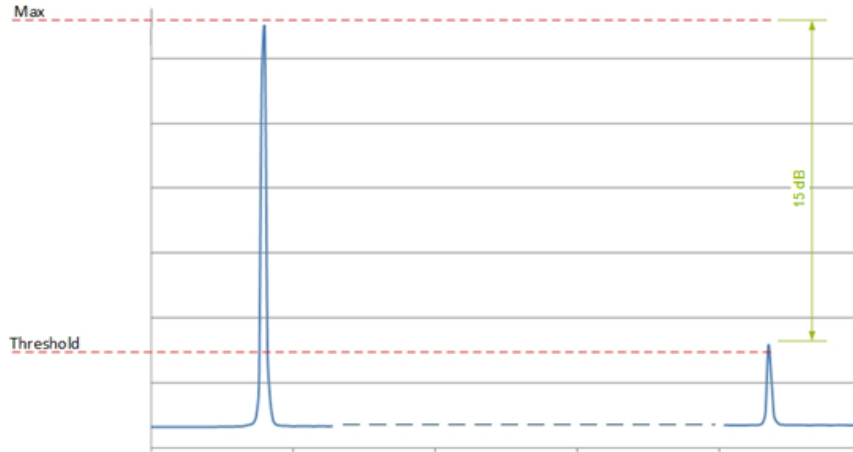


Figure 1: Max. allowed attenuation within optical line (bidirectional)


Figure 2: Power budget

Physical properties

| | |
|----------------------------|---|
| Dimensions (without cable) | 300x200x126mm |
| Weight (without cable) | 6,27kg |
| Connector type | FC/APC |
| Power consumption | 6W (9-18V) (universal adapter included) |
| Interface | USB, ModBus RTU |

Packaging

Cardboard box with dimensions: 364x351x140mm (see [Figure 3](#))

Optional - Ruggedized transportation case with dimensions: 555x428x211mm (see [Figure 4](#))

Quality statement

All interrogators are 100% tested at SYLEX

Interrogator is manufactured according to ISO 9001:2008 and ISO 14001:2004

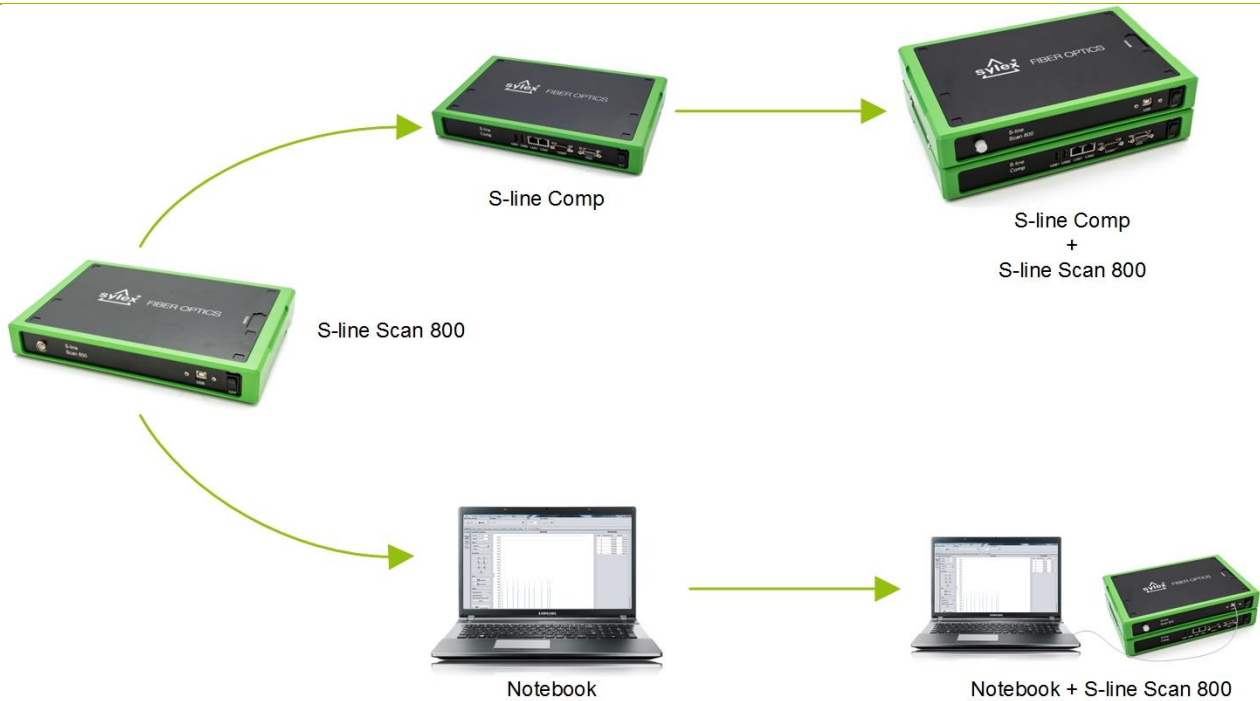
Accessories (included):

- ▲ 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 (SWS-04), 1x16 (SWS-16)
- ▲ 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



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 sales@sylex.sk

* Specifications are subject to change without notice