Red Rock Fiber Interrogator – Sedona Series

The Red Rock is a compact, lightweight interrogator designed for structural and condition health monitoring. Designed with a high spectral purity laser, the Red Rock can be operated in both CW and scan mode. Its all-in-one design allows it to operate independently of any additional equipment or external power supply, making it an convenient and cost-effective solution for field maintenance work. Wireless connection capability allows for remote control and transmission of data, enabling quick and efficient analysis of critical problems.

**FEATURES**
- Customizable Center Wavelength
- Dual Laser Option
- 5 nm Scan Range
- CW and Scan Modes
- Excellent Side Mode Suppression Ratio
- Light weight: < 5.5 lbs. (2.5kgs)
- Battery power: Up to 3 hours

**SOFTWARE**
- 7” LCD Touchscreen
- Built-in Intuitive GUI
- Consciously Monitoring
- GPS Location Feature

**APPLICATIONS**
- Laboratory Testing and Measurement
- In-Field Testing and Measurement
- DWDM Networks
- Fiber Optics Components
- Fiber Sensors

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## SPECIFICATIONS

<table>
<thead>
<tr>
<th>OPTICAL</th>
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</thead>
<tbody>
<tr>
<td><strong>Wavelength</strong></td>
<td>1530 nm and 1570 nm</td>
</tr>
<tr>
<td><strong>Measurement Resolution</strong></td>
<td>5 pm</td>
</tr>
<tr>
<td><strong>Sampling Range</strong></td>
<td>1 Hz standard</td>
</tr>
<tr>
<td><strong>Output Power</strong></td>
<td>+13 dBm typ.</td>
</tr>
<tr>
<td><strong>Linewidth</strong></td>
<td>500 kHz max</td>
</tr>
<tr>
<td><strong>Side Mode Suppression Ratio</strong></td>
<td>30 dB min., 35 dB max.</td>
</tr>
<tr>
<td><strong>Relative Intensity Noise</strong></td>
<td>-150 dB/Hz typ.</td>
</tr>
<tr>
<td><strong>Frequency Stability</strong></td>
<td>± 1 GHz typ.</td>
</tr>
<tr>
<td><strong>Fiber Type</strong></td>
<td>SMF-28</td>
</tr>
<tr>
<td><strong>Optical Connector</strong></td>
<td>FC/APC, easily cleanable</td>
</tr>
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<tr>
<th>MECHANICAL</th>
<th></th>
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<tbody>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 °C to +40 °C</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-20 °C to +70 °C</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Passive</td>
</tr>
<tr>
<td><strong>Dimensions (LxWxH)</strong></td>
<td>290mm x 45 mm x 170 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>&lt; 2.5 kg</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>Injection Molded Aluminum</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>ELECTRICAL</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Power Supply</strong></td>
<td>+5V DC External Power Adapter</td>
</tr>
<tr>
<td><strong>Backup Battery</strong></td>
<td>Lithium Ion Type</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>7” LCD Touchscreen</td>
</tr>
<tr>
<td><strong>Battery Life</strong></td>
<td>3 hours Operation</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>GUI Interface</td>
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</tbody>
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SOFTWARE INTERFACE

Red Rock

Read FBG

Plot

Spectrum

FSI-RR

Sensor Setting

Settings

FBG Value

2018-06-12

Lat.: 33.509570
Lon.: -112.066207

1531.07 nm

1569.69 nm

2018-06-12 18:59:29 UTC

Prescott

Home Previous Delete Acquire
SOFTWARE INTERFACE

Real-Time Monitoring

Center
Sensor 1
1567.992
Sensor 2
1531.566

Display data within
1 min(s)

Start

Spectrum

Intensity(Units)

1530.81

31
1530.69 32
1530.65

Start

Horizontal
Zoom
Shift

Vertical
Zoom
Shift

Channel 1

Start