**Features**
- ✓ Tune to any Frequency within specified range
- ✓ Ultra compact housing
- ✓ USB Port
- ✓ Easy remote control/API via SCPI

**Choose from 3 Laser types**

**Narrow Linewidth (N – type)**
- ✓ Typical Line width < 25kHz
- ✓ Output power tunable up to 16dBm
- ✓ Ultra wide frequency tuning range
- ✓ C and L Band versions available
- ✓ Customizable on request

**Standard Linewidth (S – type)**
- ✓ Typical Line width 80kHz
- ✓ Output power tunable up to 17.8dBm
- ✓ Fast tuning: 1 Second typical
- ✓ Cost efficient coherent transmission

**Efficient Light source (E – type)**
- ✓ General purpose tunable laser at cost of a DFB source, 400kHz Linewidth
- ✓ tunable to 50GHz ITU Grid
- ✓ Ultra cost efficient

**CoBrite_{DX1}** is a versatile tunable Laser light source that is easy to set up using any PC’s standard USB port by an easy-to-use GUI. Multiple devices can be operated on a single PC allowing easy control even for high count multi-channel applications. Remote operation control via SCPI style commands empowers users to setup and perform complex automated tasks within minutes being 100% compatible to our CoBrite chassis series.

Once set up, **CoBrite_{DX1}** will operate autonomously even without PC on last setting by it’s built-in set & forget feature. A save last state feature allows to recover at last setting including on/off state after a power cycle.
**Contact information**

ID Photonics GmbH
Anton-Bruckner-Str. 6
85579 Neubiberg
GERMANY
Tel.: + 49 (0) 89 – 201 899 16
info@id-photonics.com
www.id-photonics.com

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**Ordering Information**

<table>
<thead>
<tr>
<th>Article</th>
<th>No of Lasers</th>
<th>Laser Variant</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoBriteDX1</td>
<td>1</td>
<td>NC, NL, SC, EC*</td>
<td>FA = FC/APC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FP = FC/PC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SP = SC/PC</td>
</tr>
</tbody>
</table>

* APC type connector only

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**Mechanical Parameter**

- **Operating Temperature**: 0 to 40°C, non-condensing
- **Storage Temperature**: -20°C to 60°C
- **Size of device**: 32 x 82 x 150mm
- **Size of device**: 1.3” x 3” x 6”
- **Power Supply**: 100-240 VAC, 500mA, 50/60Hz

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**Optical Parameter**

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Frequency range; C – Band (1524.5 - 1572nm)</th>
<th>Laser Type</th>
<th>Frequency range; L – Band (1568.8 – 1611.7nm)</th>
<th>Laser Type</th>
<th>Frequency range; E – Band (1528.8 – 1566.3nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>190.70 – 196.65</td>
<td>S</td>
<td>191.12 – 196.25</td>
<td>E</td>
<td>191.4 – 196.1</td>
</tr>
<tr>
<td></td>
<td>(1962.5 - 1572nm)</td>
<td></td>
<td>(1527.6 – 1568.6nm)</td>
<td></td>
<td>(1528.8 – 1566.3nm)</td>
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<tr>
<td></td>
<td>186.00 – 191.1</td>
<td></td>
<td>Not available</td>
<td></td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>(1668.8 – 1711.7nm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Spacing**

- Continuous

**Frequency fine tune resolution**

- 1

**Frequency fine tune range**

- +/- 6

**Optical Power range**

- C Band: 10.0 – 16.0
- L Band: 9.0 – 14.5

**Spectral Line width; 3dB instantaneous, 3.5us (Lorentzian contribution)**

- < 100
- Max: 400 kHz

**Frequency accuracy over Lifetime**

- Over 24 hours: +/- 2.5
- Over 40 hours: +/- 0.3

**SMSR; Side mode suppression ratio; measured with 0.1nm RBW**

- > 40 dB

**RIN (10MHz to 3GHz)**

- -145 (10 MHz to 44GHz, 7dBm)
- -140 (100kHz – 20MHz)

**Output power accuracy over Lifetime**

- Over 1 hour: +/- 0.1
- Over 24 hours: +/- 0.05

**Output power setting resolution**

- 0.1 dB

**Output Connector**

- FC/APC, FC/PC or SC/PC

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**Pictographic GUI**

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**Invisible Laser Radiation**

**Class 1M Laser**

**Product**

EN 60825-1: IEC 60825-1

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Subject to change without further notice