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# CoBriteDX - Laser

## Features

- ✓ Hosts 1 to 4 laser ports
  - ✓ Polarization Maintaining Output
- ✓ Multiple Laser variants available
- ✓ Line width down to < 25kHz
- ✓ Remote control
  - ✓ USB & Ethernet connectivity
  - ✓ SCPI Style commands
- ✓ Integrated Web Server for browser-based control
  - ✓ Access device from any smartphone or PC via Browser
- ✓ Large Touch Display Panel for intuitive local control
- ✓ 19" Rack mountable
  - ✓ 2HE – 19" Half width

## Applications

- ✓ DWDM transport testing
- ✓ coherent Transmission
  - ✓ Local Oscillator
  - ✓ Transmitter Laser
- ✓ versatile Light source



*CoBrite* is a versatile tunable Laser light instrument that allows standalone operation by an intuitive local touch display. The chassis can be equipped with 1 to 4 tunable lasers to meet your specific needs.

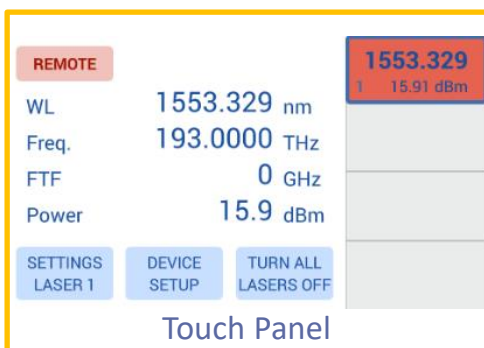
Remote operation via an integrated web server allows control using any browser-based device such as smartphones eliminating the need for complex software installations.

An integrated AC power supply makes this solution ultra portable while it is compatible with the 19" rackmount standard.

Automated remote control is achieved via USB or Ethernet by SCPI command control. It empowers users to setup and perform complex automated tasks within minutes.

Optical connectors are tool-free user removable allowing instant access for fiber cleaning.

Optical Parameter	Laser Type N	Laser Type S	Laser Type E	Unit	
Frequency range; C – Band L – Band	190.70 – 196.65 (1524.5 - 1572nm) 186.00 – 191.1 (1568.8 – 1611.7nm)	191.12 – 196.25 (1527.6 – 1568.6nm) Not available	191.4 – 196.1 (1528.8 – 1566.3nm) Not available	THz	
Channel Spacing	Continuous	Continuous	Continuous	GHz	
Frequency fine tune resolution	1	10	10	MHz	
Frequency fine tune range	+/- 6	+/- 10	+/- 10	GHz	
Optical Power tuning range for any frequency C Band L Band	10.0 – 16.0 9.0 – 14.5	8.8 – 17.8 –	10 – 16.5 –	dBm	
Spectral Line width; 3dB instantaneous, 3.5us (Lorentzian contribution)	< 100 25 typical	< 100 80 typical	Max: 400	kHz	
Frequency accuracy over Lifetime Over 24 hours	+/- 2.5 0.3	+/- 1.5 0.3	+/- 1.5 0.3	GHz	
SMSR; Side mode suppression ratio; measured with 0.1nm RBW	> 40 55 typical	> 40	> 40	dB	
RIN (10MHz to 3GHz)	-145 (10 MHz to 44GHz, 7dBm)	-140 (100kHz – 20MHz) -150 (20MHz – 1GHz)	-140 (100kHz – 20MHz)	dB/Hz	
Power accuracy over tuning range	+/- 0.5	+/- 0.5	+/- 0.5	dB	
Tuning speed (max/typical)	15 / 10	2 / 1.0	7 / 5	s	
Output Connector	FC/APC, FC/PC or SC/PC				
Output power accuracy over Lifetime Over 1 hour Over 24 hours				-/+1 +/- 0.01 (typ.) +/- 0.03 (typ.)	dB
Output power setting resolution				0.1	dB
Optical Fiber	Polarization- maintaining PANDA type Fiber, PER > 18dB, 25typ.				



### Device Parameter

Operating Temperature	0 to 40°C	non-condensing
Storage Temperature	-20°C to 60°C	non-condensing
Size of device (H x W x D)	89 x 206 x 235mm 3.51" x 8.12" x 9.06"	
Power Supply	100-240 VAC, 0.5A, 50/60Hz	

### Ordering Information

CBDX	-XY-XY-XY-XY	-XX
Article	Laser Configuration, per Port:	Connector
CoBriteDX	X: Laser Type (N,S,E) Y: Laser Band - (C, L) band XY = NN: No laser equipped	FA = FC/APC FP = FC/PC SP = SC/PC
CBDX-ACC-RM-x	19" Adaptor plate for rack mount, 2 HE 1: 1 Laserchassis; 2: 2 Laser chassis	

\* APC type connector only

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Invisible Laser Radiation  
Class 1M Laser Product  
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