

CoBrite DX2 - Tunable Laser

Features

- ✓ Hosts 1 or 2 laser ports
 - ✓ Polarization Maintaining Output
 - ✓ Local on/off button
- √ 5 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
- √ 19" Rack mountable
 - ✓ 1HE 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.

The chassis can be equipped with 1 or 2 tunable lasers to meet your specific needs. Mixing of laser variants is possible.

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 external AC/DC power supply ensures ultimate compactness of the laser chassis.

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 Parameter		Laser Type N	Laser Type S	Laser Type G	Unit	
Frequency range; C – Bacquire for L – Bacstomized L – Bacarameters C+L-		190.70 – 196.65 (1524.5 - 1572nm) 186.00 – 191.1 (1568.8 – 1611.7nm) 186.00 - 196.65 (1524.5 - 1611.7nm)	191.12 – 196.25 (1527.6 – 1568.6nm) Not available	191.1 – 196.25 (1527.61 – 1568.77nm) Not available	THz	
Channel Spacing		Continuous	Continuous	Continuous	GHz	
Frequency fine tune reso	lution	1	10	1	MHz	
Frequency fine tune range		+/- 6	+/- 10	+/- 6	GHz	
Optical Power C Battuning range L Battor any frequency C +		10.0 – 16.0 9.0 – 14.5 6.8 – 9.7	8.8 – 17.8 (17.0 dBm EOL) –	9.5 – 15.5 -	dBm	
Spectral Line width; 3dB instantaneous, 3.5us (Lorentzian contribution)		25 typical < 100	80 typical < 100 (Pout < 16dBm) < 150	25 typical < 100	kHz	
Frequency accuracy over Over 24 hours	Lifetime	+/- 2.5 0.3	+/- 1.5 0.3	+/- 2.5 0.3	GHz	
SMSR; Side mode suppre measured with 0.1nm RB		> 40 55 typical	> 40	> 40 55 typical	dB	
RIN (10MHz to 3GHz)		-145 10 MHz – 44GHz,7dBm	-140 (100kHz – 20MHz) -150 (20MHz – 1GHz)	-145 10 MHz–44GHz, 7dBm	dB/Hz	
Power accuracy over tuni	ing range	+/- 0.5 C + L variant +/- 0.9	+/- 0.5	+/- 0.5	dB	
Tuning speed (max/typical)		15 / 10	2 / 1.0	15 / 10	s	
Output Connector Output power accuracy over Lifetime Over 1 hour Over 24 hours		FC/APC, FC/PC or SC/PC				
		-/+1 +/- 0.01 (typ.) +/- 0.03 (typ.)				
Output power setting resolution			0.1		dB	
Optical Fiber		PM - PANDA Type Fiber, PER > 18dB, 25typ., E-Field on slow axis, aligned to connector key				

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)	45 x 136 x 179mm 1.77" x 5.35" x 7.04"	
Power Supply (external, included)	100-240 VAC, 0.5A, 50/60Hz	, 12VDC, 1.5A input at unit

Ordering Information

* APC type connector only

	CBDX2	-XY-XY	-XX					
	Article	Laser Configuration, per Port:	Connector					
	CoBriteDX2	X: Laser Type (N,S,G*)	FA = FC/APC					
		Y: Laser Band - (C, L) band	FP = FC/PC					
		XY = LC - C + L band option, 1 laser port max.	SP = SC/PC					
		XY = NN: No laser equipped						
E	Example: CBDX2-NC-NN-FA: 1 Laser port, NC type. FC/APC connector							

Accessory

CBDX2-ACC-RM-x

19" Adaptor plate for rack mount, 1 HE

1: 1 Laserchassis; 2: 2 Laser chassis

Subject to change without further notice



Invisible Laser Radiation Class 1M Laser Product EN 60825-1: IEC 60825-1

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