

980nm 420mW Benchtop Light Source (with Isolator)



● Product Description

Idealphotonics' Cobrite series 980nm high-stability single-mode pump source utilizes a single-mode semiconductor laser with an FBG wavelength-stabilizing grating, offering wavelength stability and high output power. Based on an advanced microprocessor control system combined with high-precision ATC and ACC (APC) control circuits, it achieves highly stable laser output while ensuring quick and intuitive operation of the light source. We can also provide corresponding communication interfaces and control software based on user requirements to enable computer control. This light source features a Turn-Key pump laser protection function to effectively prevent user errors. It supports coarse power adjustment (50mW steps) and fine power adjustment (0.1mW steps). Idealphotonics Cobrite series 980nm single-mode pump

source is a high-stability pump source designed for applications such as high-power fiber amplifiers and mode-locked fiber lasers. Since ASE light generated by active fibers can easily damage the pump laser, Xiaoxiao Photonics provides targeted pump protection solutions to further enhance the safety of the pump source. Idealphotonics Cobrite series 980nm single-mode pump source is a highly integrated desktop system light source with a high-definition LCD display, continuously adjustable output power, and synchronous current and voltage display, making it ideal for experimental scientific research and production testing. Additionally, the company can provide modular packaging based on user needs for easy system integration.

● Part Number

COBRITE-980-B-420-1

● Product features

Single-mode high-power output: up to 1W、FBG grating wavelength locking, no drift、ASE optical isolation protection design、Stable and continuously adjustable output power、LCD status display、High-precision ACC and ATC control circuits、Optional built-in isolator、HI1060 fiber/PM980 fiber optional

● Application area

High-power low-noise EDFA、Mode-locked fiber lasers、Ytterbium-doped fiber amplifiers、Test and measurement、Nonlinear effect research

Parameters

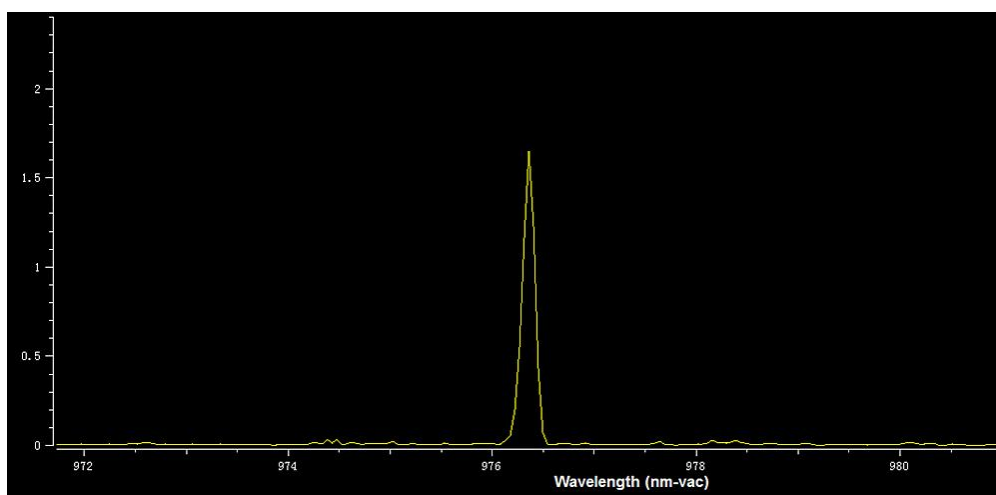
Parameters	Unit	Specs		
		Min.	Typ.	Max.
PN#		COBRITE-980-B COBRITE- 980-M		
Output Power	mW	90	-	1000mW
Peak Operating Wavelength	nm	970	975	985mW
Spectral Width (FWHM) with FBG	nm	-	0.5	-
Output Side Mode Suppression Ratio (SMSR)	dB	20	-	-
Output Isolation	dB	-	30	-
Output Power Stability (15 minutes)	%	-	±0.5	± 1.0

Output Power Stability (8 hours)	%	-	±1.0	±2.0
Output Power Adjustable Range	%	0	-	100
Output Power Adjustment Mode		Coarse/Fine Adjustment		
TEC Stability	°C	-	±0.1	±0.2
TEC Operating Range	°C	25	30	35
Operating Voltage	VAC	100	220	240
Electrical Power Consumption	W	-	-	30
Operating Temperature	°C	0	-	50
Storage Temperature	°C	-40	-	85
Output Fiber Type		HI1060 fiber/PM980 fiber optional Corning HI - 1060 6/125um NA=0.13		
Output Fiber Length	m	> 1		
Output Fiber Connector		FC/APC, other models optional		
Dimensions	mm	340(L) × 240(W) × 100(H) Benchtop		
		150(L) × 125(W) × 25(H) Module		

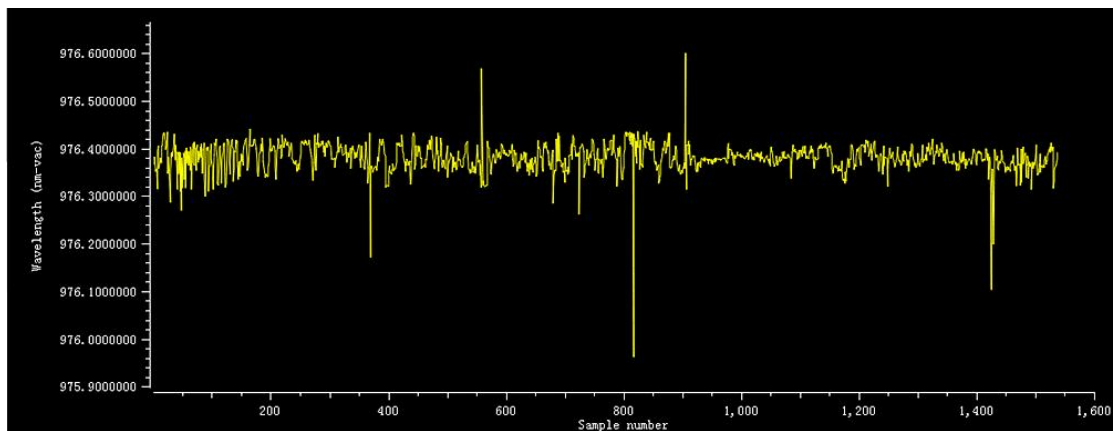
Technical Specification Notes

1. Output power selectable;
2. Peak operating wavelength customizable;
3. Isolation refers to the isolation against ASE light;
4. Output power stability test conditions: 25° C, tested after a 30-minute warm-up;
5. Maximum power consumption refers to the overall power consumption under extreme operating conditions.

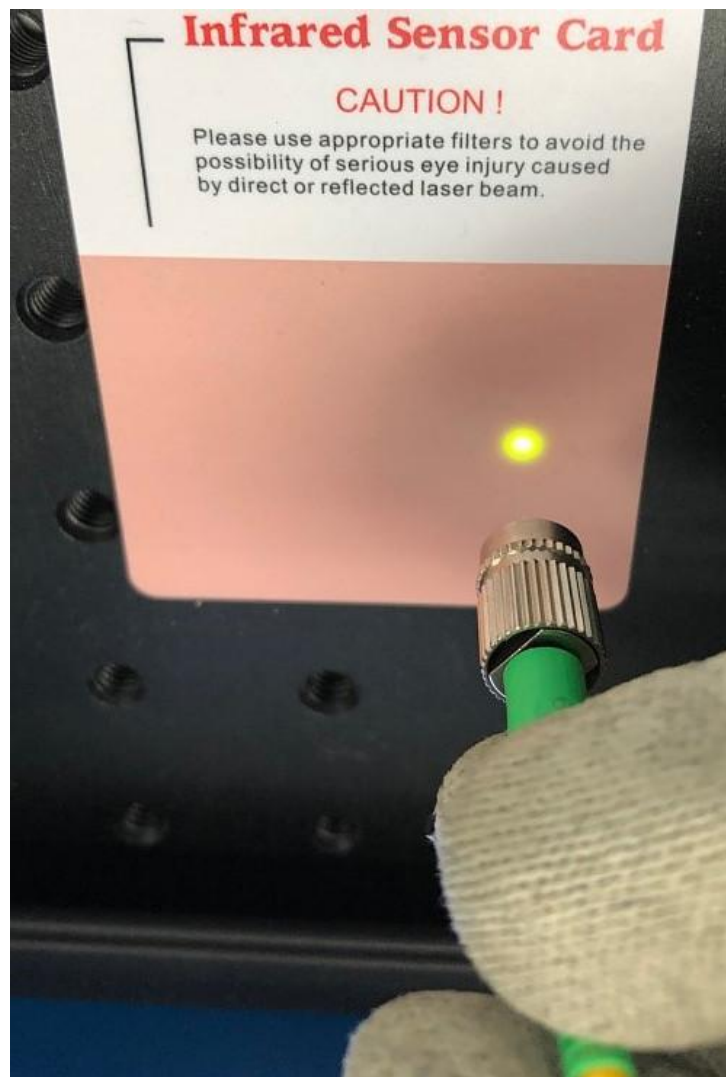
Spectrum Graph



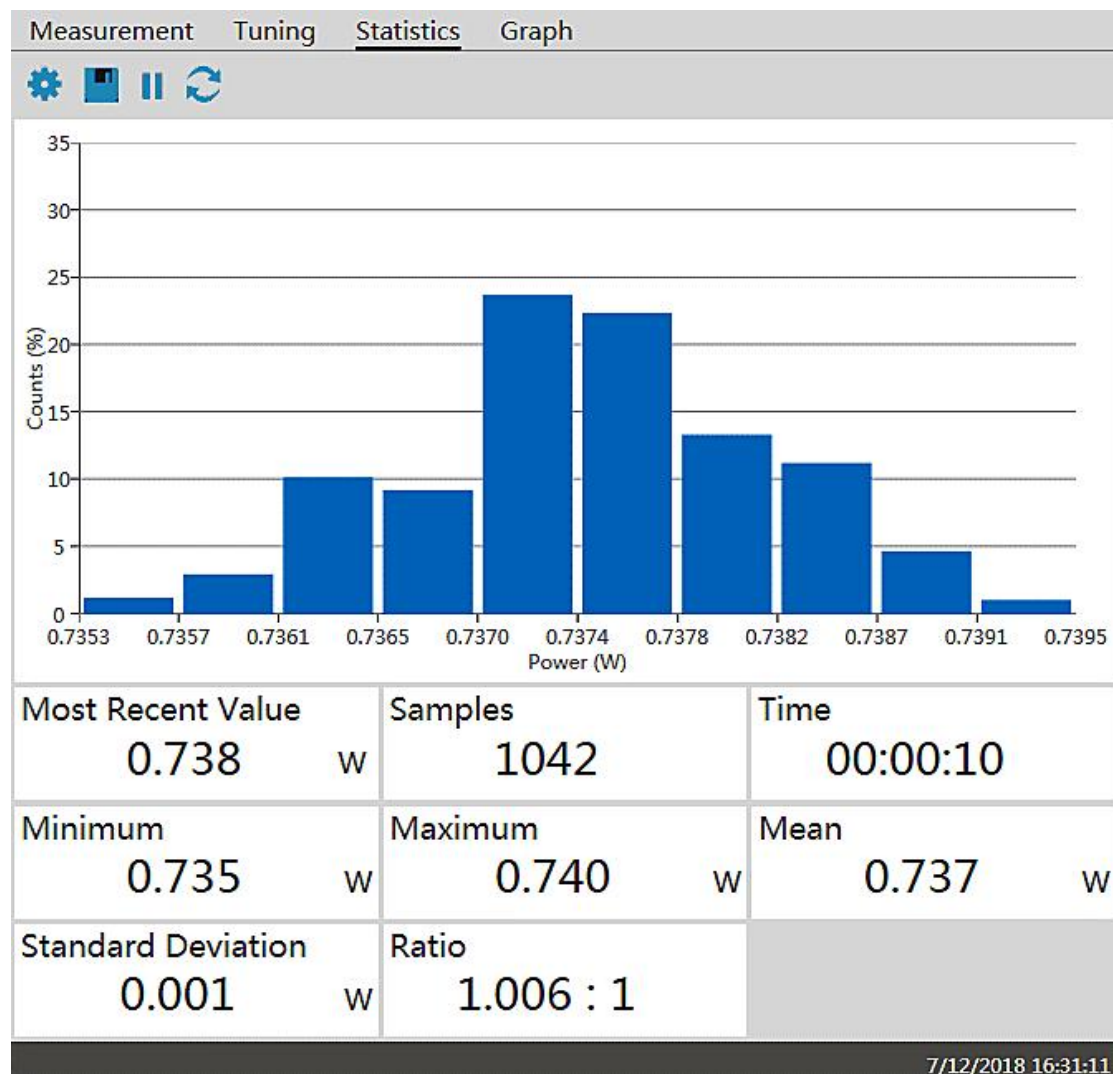
Wavelength Stability Test



Beam Quality



Power Test Table



Order Information

COBRITE-980-PG-OPP-ISO

PG:Packaging B: Benchtop M: Module

OPP: Output power, Unit:mW E.g.: 300-300mW, 800-800mW

ISO: Built-in 980nm pump isolator protection 0-zone, 1-Pump protection