PHOTONTEC
BERLIN

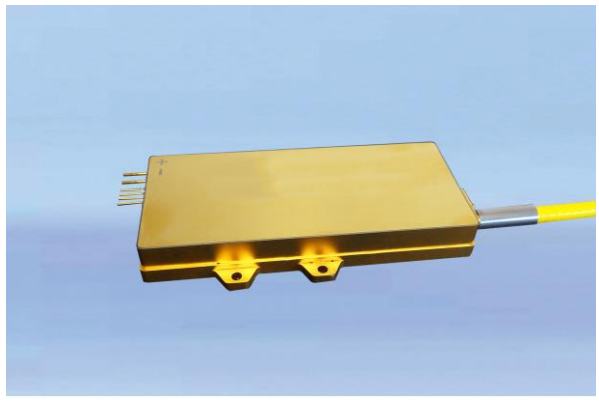
976nm Wavelength-stabilized Diode Laser

Features

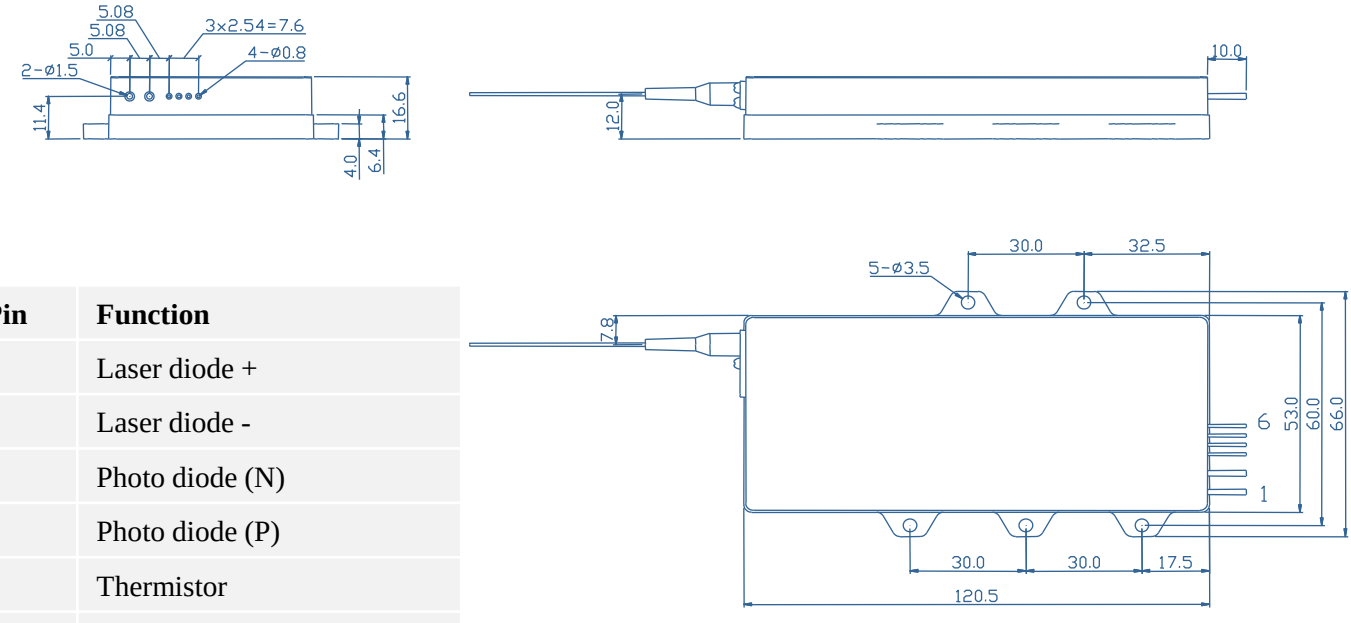
- 200W CW output power
- Narrow linewidth
- Feedback protection for fiber laser

Applications

- Fiber laser pumping



Package dimension (mm)



Pin	Function
1	Laser diode +
2	Laser diode -
3	Photo diode (N)
4	Photo diode (P)
5	Thermistor
6	Thermistor

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Module Specifications

Model		M976±0.5-200-F200/22-DK-P		
Optical Parameters	**Unit**	**Min**	**Typical**	**Max**
Output power (exit fiber)	W	190	200.0	
Central wavelength	nm		976	
Wavelength tolerance	nm		± 0.5	
Spectral width (FWHM)	nm		0.5	1.0
Feedback protection (1030-1100nm)	dB		40	
Fiber Connector				
Fiber core diameter	µm		200	
Fiber cladding diameter	µm		220	
Numerical aperture			0.22	
Fiber length	M		1 or 2	
Electric Parameters		**Min**	**Typical**	**Max**
Threshold current	A		1.0	
Operating current	A		15.0	16.0
Operating voltage	V		27.6	28.0
Slope efficiency	W/A		13.5	
Power conversion efficiency	%	40	45	
Other Parameters				
Operating temperature *	°C			45
Operating humidity	%			75
Storage temperature	°C	-20		80
Soldering temperature	°C		250 (10s)	

* Internal thermistor reading

Notes: 1. Module specifications and dimension are subject to change without notice.
2. ESD precautions must be taken.
3. The minimum fiber bend diameter should be 300 times greater than the fiber core diameter.
4. Reduced lifetime if improperly used or used above operating conditions.
5. A non-condensing environment is required for storage and operation below the ambient dew point.

Compliance with Regulatory Requirements: This industrial laser is an OEM version of a laser diode. As such, it is intended only for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer is responsible for IEC and CDRH certifications of the system that incorporates this industrial laser.

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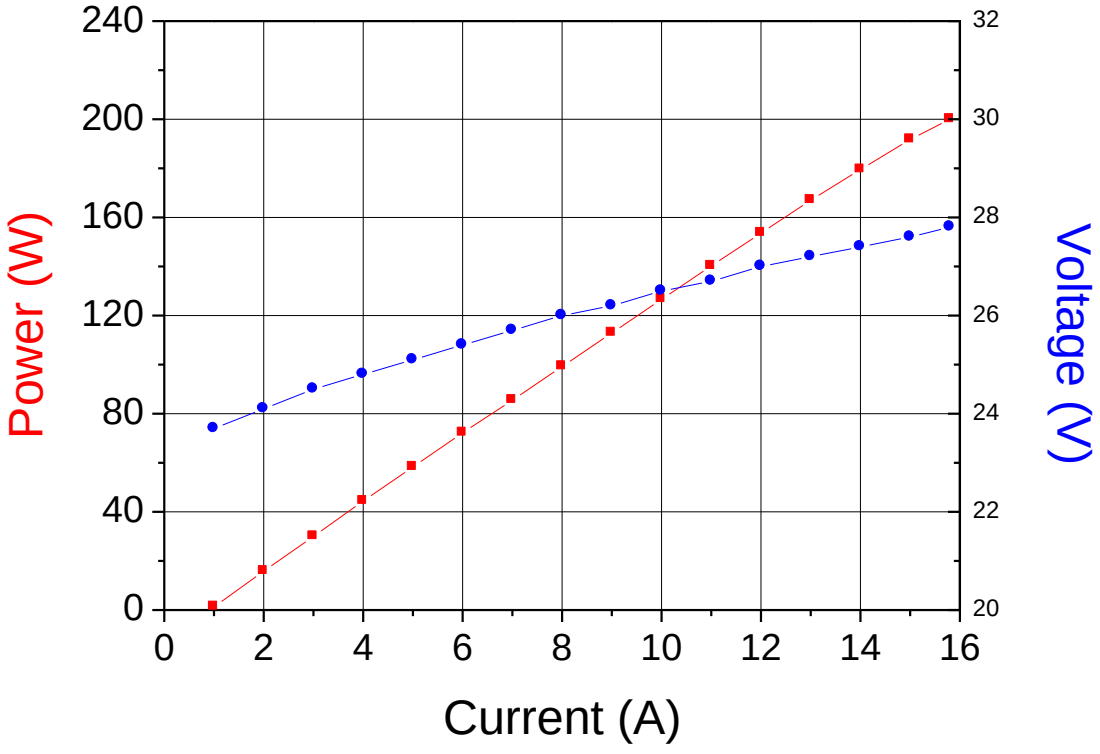
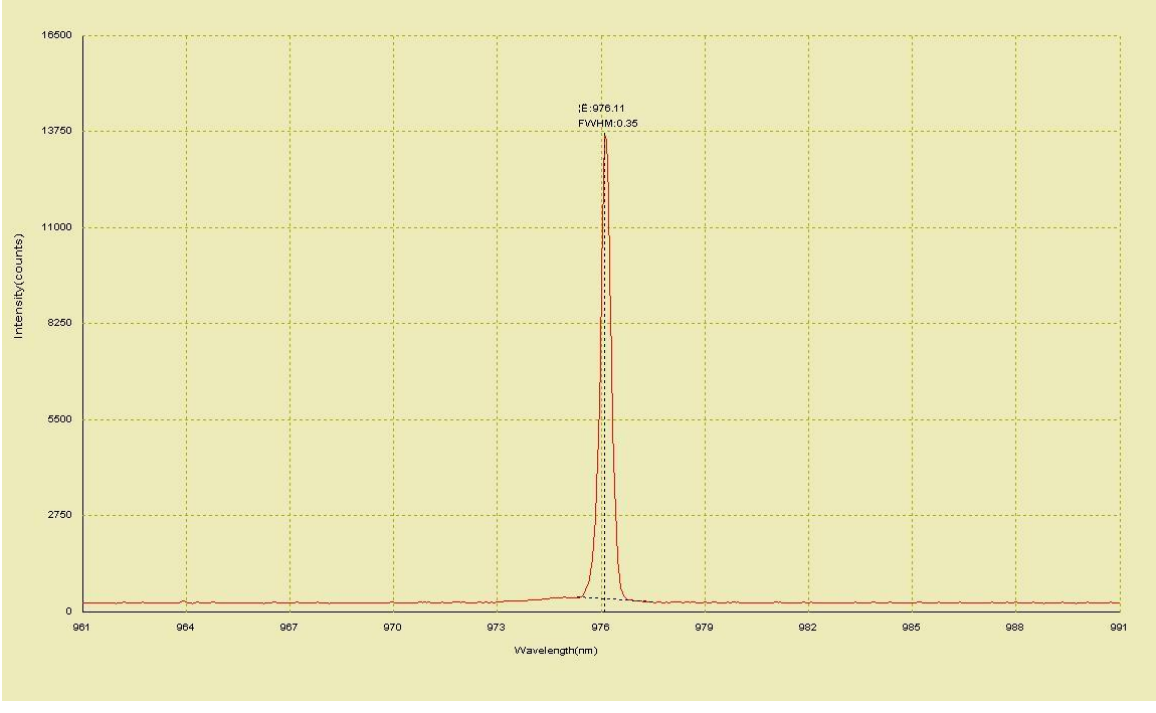


Spectrum



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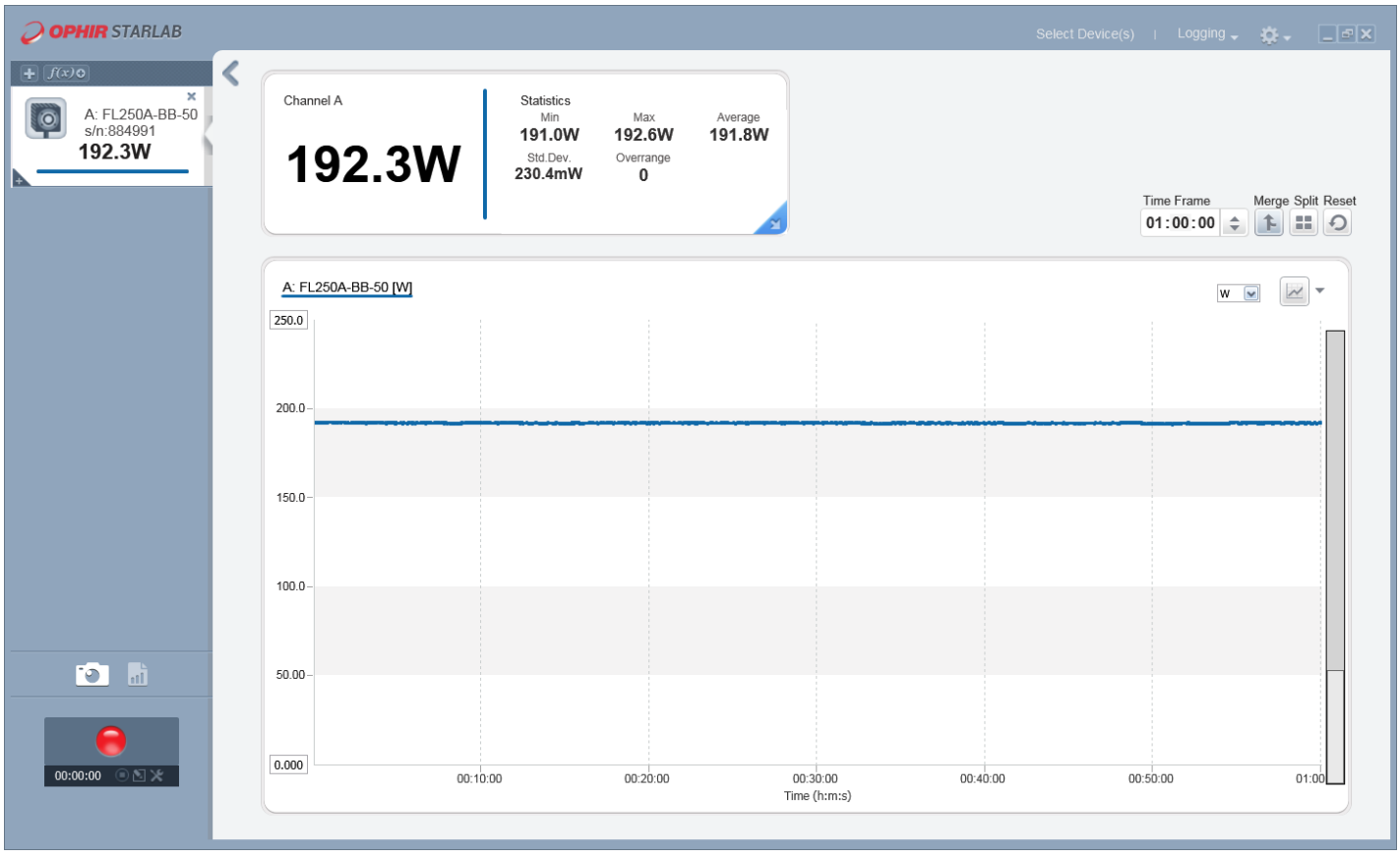
Stability test



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