

BWR Series

BWR Diode Pumped Solid State NIR Laser



The BWR series are self-contained, thermoelectric (TE)-cooled, diode-pumped, Near Infrared Nd:YVO4 lasers. They can be operated over a wide temperature range of 0 to 40°C with a stable laser output power. These are CDRH compliant laser systems. The combination of excellent beam characteristics, such as mode quality and low divergence, makes the lasers suitable for beam focusing, as well as long distance beam positioning. The power supply has all CDRH applicable safety features, such as key-lock switch, emission indicator, remote interlock connector and optional TTL (or Analog) modulation input for up to 25KHz.

Applications

- *Optical Trapping*
- *Wafer Inspection*
- *Material Processing*
- *Particle Counting*
- *Metrology*
- *Printing*
- *Medicine*
- *Illumination*
- *Pointing*
- *Photoluminescence*



BWR Series

Specifications

FOR OUTPUT POWERS ≤ 50 mW

End User Version	BWR-20E	BWR0-50E
OEM Version	BWR-20-OEM	BWR-50-OEM
Power Output	20 mW	50 mW
Wavelength	1064nm	
Mode	TEM ₀₀	
Beam Size (FWHM)	< 2mm	
Power Stability (over 2 hrs)	< 5%	
Beam Divergence	< 2 mrad	
Operating Temp.	0-40 °C	
Spectral Linewidth	<0.1 nm	
Warm-up Time	15 min	
Laser Head Dimension	30 X 30 X 66 mm	
Input Power	110VAC/60Hz	
Power Supply Dimension	55mmH X 105mm W X 170mm L	
Control (Optional)	TTL or Analog Input	
Fiber Pigtail (Optional)	Single mode or Multi-mode with SMA 905 termination	
OEM Driver	The OEM driver of BWR series is available with an OEM driver @ 4.5-5.5VDC input @ TTL modulation @ with a dimension of 102x80x25mm	

****OEM Version:** OEM modules contain laser heads and OEM drivers, and are non-CDRH compliant devices. These modules are sold as component into other equipments. The purchasers assume responsibility to comply with US 21 CFR 1040 with regard to the use of this laser and its introduction into commerce. B&W TEK may provide additional assistances to help customers achieve the required CDRH compliance

BWR Series

Specifications

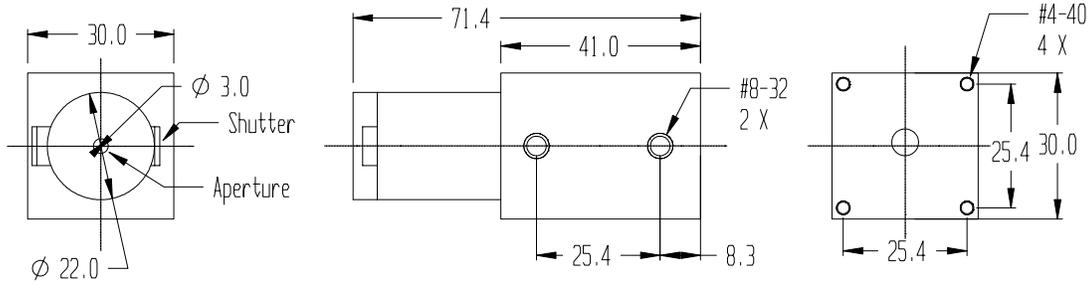
FOR OUTPUT POWERS > 50 mW

	BWR-600E	BWR-1200E	BWR-2500E
Power Output	600 mW	1200mW	2500 mW
Wavelength	1064nm		
Mode	TEM ₀₀		
Beam Size (FWHM)	< 2mm		
Power Stability (over 2 hrs)	< 5%		
Beam Divergence	< 2 mrad		
Polarization	Linear	Linear	Random
Operating Temp.	10 - 35 °C		
Spectral Linewidth	<0.1 nm		
Warm-up Time	15 min		
Laser Head Dimension	165 X 45 X 47 mm		
Fiber Pigtail (optional)	Single Mode or Multi-mode fiber with SMA905 Termination		
Modulation (optional)	TTL or Analog BNC input port		
Driver Specifications			
Operating Voltage	110VAC/60Hz		
Power Consumption	< 60 Watts		
Power Supply Dimension	148 X 108 X 54 mm		
Control	Fixed power output Power adjustment 0-max. (optional)		
Additional Control (optional)	TTL or Analog Control Input with modulation speed up to 25 KHz		

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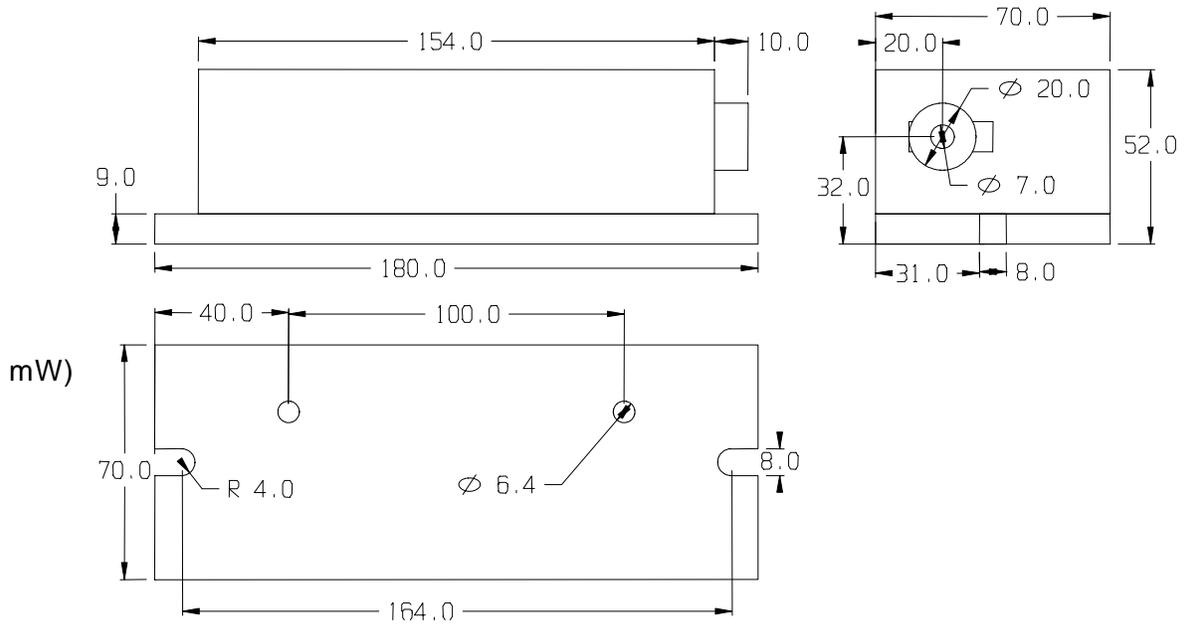
Dimensions

LASER HEAD (For output powers ≤ 50 mW)



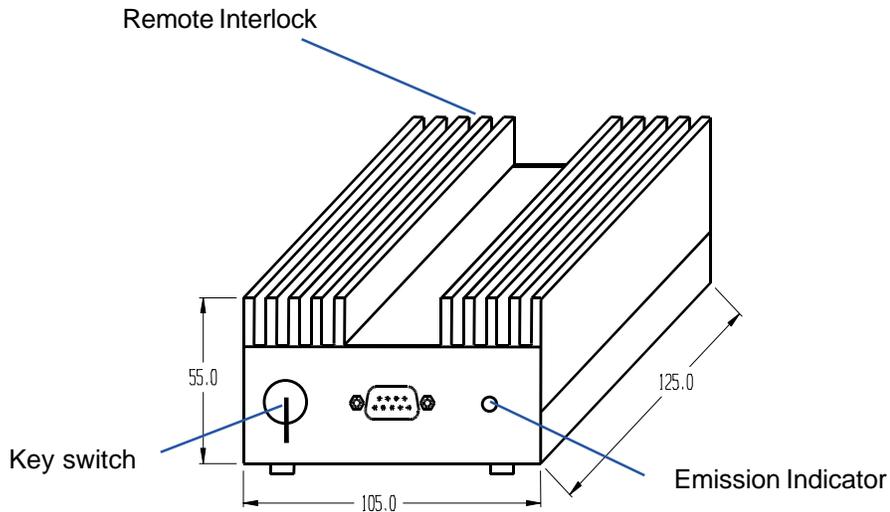
LASER HEAD

(For output powers > 50 mW)



BWR Series

ENE USER DRIVER (For output powers ≤ 50 mW)



ENE USER DRIVER (For output powers > 50 mW)

