

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

BWN Series

Low Noise Green / Yellow / Red / NIR Lasers



End-user Version

The BWN Series are very compact, self-contained, double thermoelectric (TE) cooled, solid-state Green, Red, and NIR lasers. They can be operated over a wide temperature range, 10 to 35°C with a stable and quiet laser output power. 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 compact power supply can be easily integrated into the OEM version, and the end user version has all the applicable safety features, such as key-lock switch, emission indicator and remote connector.

Applications

- Bio instrument
- Spectroscopy
- Metrology
- Wafer inspection
- Printing
- Micro-material processing
- Medicine
- Particle counting
- Photoluminescence



OEM Version

B&W TEK INC.

19 Shea Way, Newark, DE 19713, USA · Web: www.bwtek.com
Tel: (302) 368-7824 · Fax: (302) 368-7830 · E-mail: info@bwtek.com

Copyright © 2006 B&W Tek, Inc. Rev. 021706S

BWN Series

Low Noise Green / Yellow / Red / NIR Lasers

Typical Specifications

BWN Series	532 - xx	594 - xxx
Power Output (mW)	5, 10, 20, 50, 100*	5, 10, 20*
Wavelength (nm)	532 +/- 1	594 +/- 1
FWHM Spectral Line width (nm)	< 0.1	0.2
Mode	TEM_{oo}	
M^2	1.1	1.2
Beam Size ($1/e^2$)	< 1.0 mm	
Beam Divergence	< 1.5 mrad	
Long Term Stability (> 2 hrs)	< 5 %	
Short Term Noise (rms)	< 2 % (up to 20 MHz) Option (for OEM customer) < 0.2 %	< 2 % (up to 20 MHz)
Polarization	Linear (100:1)	
Operating Temp.	10 - 35 °C	
Warm-up Time	> 15 min	
Laser Head Dimension	35mm(H) x 50mm(W) x 100mm(L)	
Fiber Pigtail (option)	Single Mode fiber with FC/APC terminiation Multi Mode fiber with SMA905 termination	
TTL Modulation (option)	0 - 20 KHz	
Expected Lifetime (hrs)	> 10,000	
End User Driver Specifications	**BWN-532-xxx-E**	**BWN-594-xxx-E**
Operating Voltage	110 - 240 VAC	
Power Supply Dimension	55mm(H) x 105mm(W) x 125mm(L)	
OEM Driver Specifications	**BWN-532-xxx-OEM**	**BWN-532-xxx-OEM**
Operating Voltage	5 DVC	
Power Supply Dimension	25mm(H) x 80mm(W) x 105mm(L)	

* High power output as options are available upon request, please check with us before placing order.

B&W TEK INC.

19 Shea Way, Newark, DE 19713, USA · Web: www.bwtek.com
Tel: (302) 368-7824 · Fax: (302) 368-7830 · E-mail: info@bwtek.com

Copyright © 2006 B&W Tek, Inc. Rev. 021706S

BWN Series

Low Noise Green / Yellow / Red / NIR Lasers

Typical Specifications

BWN Series	635 - xx	660 - xx	685 - xx	780 - xx	830 - xx
Power Output (mW)	3, 5, 10	5, 10	5, 10	5, 10, 20	5, 10
Wavelength (nm)	635 +/- 10	660 +/- 10	685 +/- 10	780 +/- 10	830 +/- 10
FWHM Spectral Line width (nm)	< 1 nm				
Mode	TEM_{oo}				
M^2	1.1				
Beam Size ($1/e^2$)	< 1.0 mm				
Beam Divergence	< 1.5 mrad				
Power Stability (> 2 hrs)	< 5 %				
Noise (rms)	< 2 % (up to 2 GHz)				
Polarization	Linear				
Operating Temp.	10 - 35 °C				
Warm-up Time	> 15 min				
Laser Head Dimension	35mm(H) x 50mm(W) x 100mm(L)				
Fiber Pigtail (option)	Single Mode fiber with FC/APC terminiation Multi Mode fiber with SMA905 termination				
TTL Modulation (option)	0 - 20 KHz				
Expected Lifetime (hrs)	> 10,000				
End User Driver Specifications	**BWN-xxx-xx-E**				
Operating Voltage	110 - 240 VAC				
Power Supply Dimension	55mm(H) x 105mm(W) x 125mm(L)				
OEM Driver Specifications	**BWN-xxx-xx-OEM**				
Operating Voltage	5 DVC				
Power Supply Dimension	25mm(H) x 80mm(W) x 105mm(L)				

B&W TEK INC.

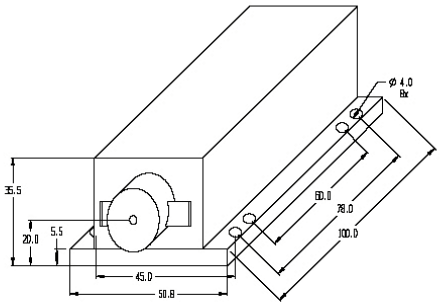
19 Shea Way, Newark, DE 19713, USA · Web: www.bwtek.com
Tel: (302) 368-7824 · Fax: (302) 368-7830 · E-mail: info@bwtek.com

Copyright © 2006 B&W Tek, Inc.

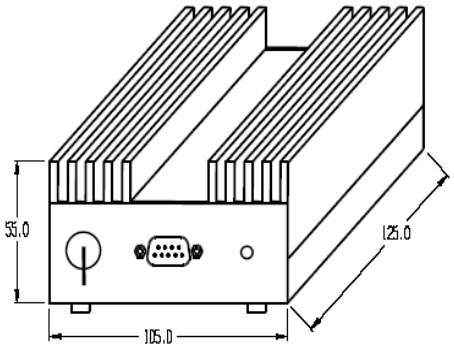
BWN Series

Low Noise Green / Yellow / Red / NIR Lasers

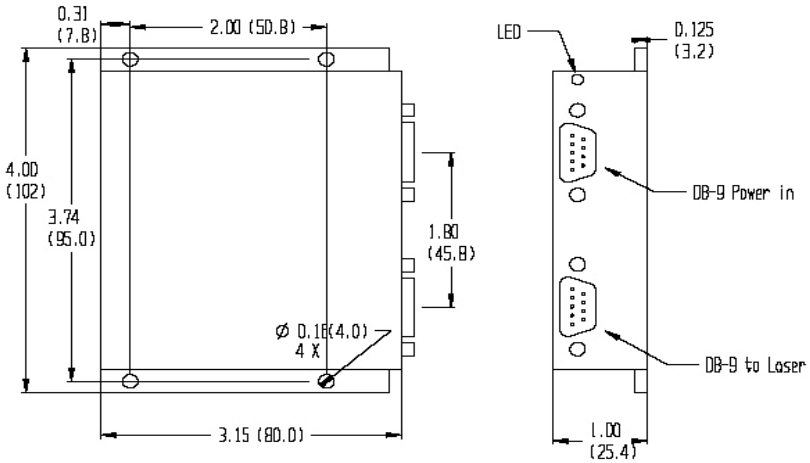
Laser Head Dimension:



End-user Driver Dimension:



OEM Driver Dimension:



19 Shea Way, Newark, DE 19713, USA · Web: www.bwtek.com
Tel: (302) 368-7824 · Fax: (302) 368-7830 · E-mail: info@bwtek.com

Copyright © 2006 B&W Tek, Inc.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP