B&W TEK INC.
Your Spectroscopy Partner

BDS100
Deuterium/Tungsten Light Source User Manual

19 Shea Way, Newark, DE 19713 • Tel: (302) 368-7824 • Fax: (302) 368-7830 • Web: www.bwtek.com

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INTRODUCTION

The BDS100 is a fiber-coupled UV/Vis/NIR light source (fiber not included) delivering a spectral output range of about 200-1100nm. The UV lamp generates low heat and has low power consumption. The light source comes complete with a 12 V DC power supply, safety shutter, and individual On/Off controls for the Deuterium and Tungsten lamps.

SAFETY INFORMATION

The miniature UV/Vis/NIR light source of the BDS100 is a high-voltage lamp (over 1000 Volts) which operates at a high exciting frequency of 250 kHz and produces UV radiation.

Radiation from direct or reflected UV light may burn your skin and eyes. Protect your eyes by wearing goggles with clear or tinted lenses.

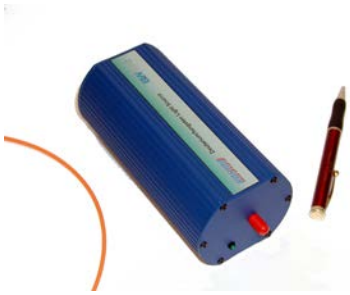
Safety and proper functioning of the light source can only be guaranteed if original parts and replacement parts from B&W Tek, Inc. are used.

Specifications

See Product Datasheet for specifications.

BDS100 Front View

BDS100 Rear View



BDS100 UV/Vis Light Source

Installation

Connect 12 V DC power adapter to the rear panel receptacle. The front green LED will turn on.

Operation

1. Clean the fiber's SMA connectors by using a fiber optic connector cleaner or a cotton swab moistened with isopropyl alcohol
2. Connect a fiber to the excitation port located on the front panel
3. Leave the S (shutter) switch in the OFF position
4. Turn ON the W (Tungsten) switch or D2 (Deuterium) switch or both
5. Let the source warm up for 8 -10 minutes
6. Turn ON the S (shutter) switch to open the shutter

LEDs

Front LED - green LED will turn on when the power supply is connected.

Rear LEDs - red LED will turn on next to the corresponding toggle switch.

W	for	Tungsten On
D2	for	Deuterium On
S	for	Shutter Open

Dimensions (Inches)

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