

**Models DLS350, DLS355**  
**Dual LED, Dual LASER Source**



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## Introduction

Dear Valued Customer,

Thank you for choosing ODM, Inc. for your fiber optic testing requirements. Our professional staff is available to answer any questions or provide assistance that you may require. We, at ODM Inc., strive to provide premier customer care and technical support by providing timely responsiveness and training. We are proud of our quality and high standards and assure you, our customer, the most user friendly and affordable fiber optic solutions to meet individual needs.

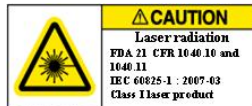
Sincerely,

*Michael E. Schneider*

President, ODM, Inc.

## Section 1 – General Overview

### 1.1 Safety Warnings!

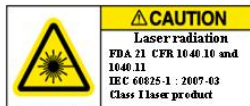


Please read the following warnings and precautionary notes before using any product containing light or laser source:

- 1) Never look directly into the path of any light or laser source, patch cord or adapter as it may cause temporary or permanent blindness or damage to the eyes. Never point a laser or light source at another individual.
- 2) Always assume that the light or laser source output is active! The light is never visible.
- 3) In order to prevent any type of hazard, never open or try to adjust the instrument. Contact ODM Inc. for assistance. 603-524-8350
- 4) Laser Classifications of ODM light source:
  - a. DLS350 is a CLASS I LED PRODUCT
  - b. DLS355 is a CLASS I LASER PRODUCT



## Safety Warnings! Continued



- 5) Never expose the instrument to severe conditions that may cause personal injury, fire, electrical shock or damage to the instrument. This includes but is not limited to:
  - a. Never use an AC adapter with the instrument other than that which is specified or rated by ODM Inc.
  - b. Do not use a damaged AC Adapter (exposed wires or shorted). Please contact ODM Inc. for service.
  - c. Instruments should never be opened. Please contact ODM Inc. for service.

## **1.2 Warranty**

ODM Inc. warrants their instruments for a period of two years for repair or replacement from the date of shipment to original customer. The warranty covers defective material and/or workmanship.

Warranty will be void if instrument is found to be damaged by misuse, abuse, accident or unauthorized repair.

Calibration within first year is covered under warranty. Please contact ODM Inc. for instructions for appropriate RMA authorization.

## **1.3 Unpacking and Inspection**

The DLS series instruments are carefully inspected and packed according to standard shipping practices. The individual components include:

1. DLS350 Dual LED or DLS355 Dual Laser Source with universal connector interface
2. 1 – CR2 3V Lithium Battery
3. Rugged padded single instrument pouch with belt loop
4. User's Guide, Specification Sheet and Certificate of Compliance

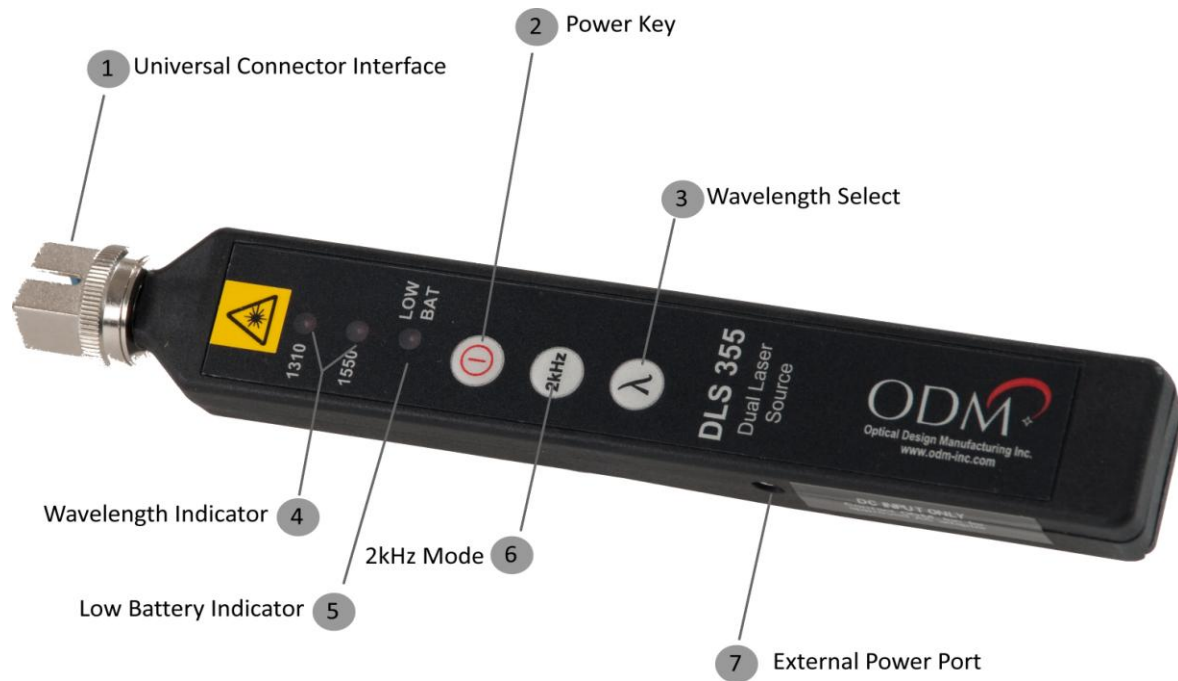
Please contact ODM Inc if your equipment has arrived to you damaged.

## **Section 2 – Feature Overview and Usage Instructions for DLS Series instruments**

### **2.1 Feature Overview**

The DLS350 and DLS355 are both dual wavelength single output light sources. DLS350 LED source offers 850 & 1300 nm wavelengths for multimode testing while the DLS355 Laser Source offers 1310 & 1550 for singlemode applications.

The small form and user friendly application of this instrument affords the user one hand operation allowing quick, easy testing.



**Figure 1**

## Features

See Figure 1 on page 7

### 1) Universal Connector Interface

The universal connector interface included with the DLS accepts many connector types including FC, SC, ST and LC. The screw on style connector provides easy switching to hybrid adapters to accommodate various connector styles. Please contact ODM for available connector styles and patch cords.

### 2) Power Key

To power the DLS press the PWR button. To turn the DLS off, press PWR button again. The DLS is set to turn off after 15 minutes. For continuous operation press and hold the PWR button for three seconds or power on.

### 3) $\lambda$ Wavelength Select

Press the  $\lambda$  button to toggle between 850nm and 1300nm for the DLS 350 or 1310nm and 1550nm for the DLS 355. **DLS 350 & DLS 355 Operation & Service**

### 4) $\lambda$ Wavelength Indicator

The wavelength indicator will be on, signifying that power is on and wavelength selected.

### 5) Low Battery Indicator

Low Battery condition exists when the **LOW BATT** LED flashes.  
The DLS operates from a long life CR2, 3V Lithium Battery.

### **6) 2kHz Mode**

To modulate the DLS @ 2kHz press the 2kHz button.

### **7) External Power Port**

External power port accepts a 120 volt or 240 volt AC Adapter. Please see Accessories section for available AC Adapters.

## **2.2 Usage Instructions**

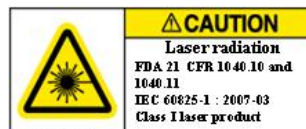
The DLS 350 and DLS355 are used in conjunction with the RP 400 series power meters providing loss measurements according to EIA/TIA standards.

The DLS 350/DLS 355 dual light sources also provide a 2kHz tone output for fiber identification when used with the RP 400 series power meters. The incoming 2kHz signal is identified and an audible alert is provided by the RP 400 series power meter. The 2 kHz tone provided by the DLS 350 and 355 may also be used with non invasive fiber identifier devices such as the LFI 110 Live Fiber Identifier from ODM.

Connection to the device under test (DUT) is by the universal connector output allowing for easy cleaning of the connector surface. Please contact ODM for hybrid adapters to accommodate different connector styles. See Accessories section for available hybrid adapters. These dual sources are provided with a long lasting battery or may be factory configured for optional AC operation.

### Section 3 - Specifications for DLS350 & DLS355

Specifications	DLS 350	DLS 355
Wavelength	850nm & 1300nm LED	1310nm & 1550nm Laser
Output power	- 20dBm Typ.	- 4.0 dBm Typ.
Laser Classification	NA	Class 1 (FDA 21 CFR 1040, 11)
Output stability	+/- 0.05dB, one hour +/- .03dB long term after 15 minute warm-up	
Spectral Width	40nm/120nm	5nm/5nm
Optical interface	Universal connector (contact ODM for other connector styles)	
Tone Output	2kHz	
Power on	Push button ON, Auto shutoff	
Battery	CR 2 , Optional AC power for long term	
Dimensions	6.1x.94x.75 in. (15.5x2.38x1.90cm)	
Weight	3.0 oz (8.5g)	
Operating Temperature	-10 to 50°C	
Storage Temperature	-30 to 60°C	



## Section 4 - Accessories

### Adapters

AC 022	SC Adapter for Optical Light Source, DLS 350 & DLS 355
AC 023	FC Adapter for Optical Light Source, DLS 350 & DLS 355
AC 024	ST Adapter for Optical Light Source, DLS 350 & DLS 355
AC 025	LC Adapter for Optical Light Source, DLS 350 & DLS 355

### Cleaning Kits

CK125	Cleaning Kit includes fiber cleaning solution, wipes, 1.25mm swabs, 2.5mm swabs for 200 connectors and adapters
CK250	Cleaning Kit includes fiber cleaning solution, wipes, 1.25mm swabs, 2.5mm swabs for 400 connectors and adapters

### Carry Cases

AC 010	Single Instrument padded pouch fits all power meters, light sources and VFI's
AC 011	Hard Case for up to four instruments

## Section 5: Contact Information

Customer Service and Technical Assistance

Phone: (603) 524-8350

FAX: (603) 524-8332

E-mail: [info@odm-inc.com](mailto:info@odm-inc.com) or [support@odm-inc.com](mailto:support@odm-inc.com)

Visit our website: [www.ODM-INC.com](http://www.ODM-INC.com)

