ODM

A **RIPLEY®** BRAND

DLS 650

Dual LED Source
User Guide

Introduction

The DLS 650 is an optical LED source used for verifying the proper function of fiber optic networks. This document will serve as an overview of the major functions and features of the device.

Device Overview

Protective Adapter Cover
Cover flips closed to protect fiber interface when storing DLS 650. When flipped open, cover may be used to prop DLS 650 on a flat surface.

LCD Screen
Screen displays all relevant information for fiber testing. Backlight timer may be adjusted in device options menu.

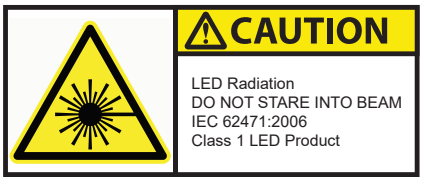
Wavelength Switch Button
On Main screen, press button once to switch between 1310, 1550, and dual 1310/1550 wavelength options.

LED Button
On Main screen, press button once to toggle LED ON and OFF.

OK/Menu Button
Used to access menu system and select settings within menus.

Directional Buttons
Used to navigate menu system and review saved readings (context-sensitive functions).

Power Button
Press once to turn unit ON or OFF.



Contents

Important Safety Information

Read and understand all of the instructions and safety information in this manual before operating this tool.

Electric Shock hazard

Contact with live circuits could result in severe injury or death.

Laser Hazard

Avoid eye exposure to open fiber connectors and interfaces when working with fiber systems. They may be connected to a live laser source.

Do not look into the output port of a laser or LED source.

Point fiber endfaces toward non-reflective surfaces to prevent reflection of laser or LED.

Electric Shock Hazard

Pay attention to proper battery polarity. Do not mix battery types or manufacturers.

Do not open the unit.

Use this unit only for its intended purpose as outlined in this document.

Damage to Item Hazard

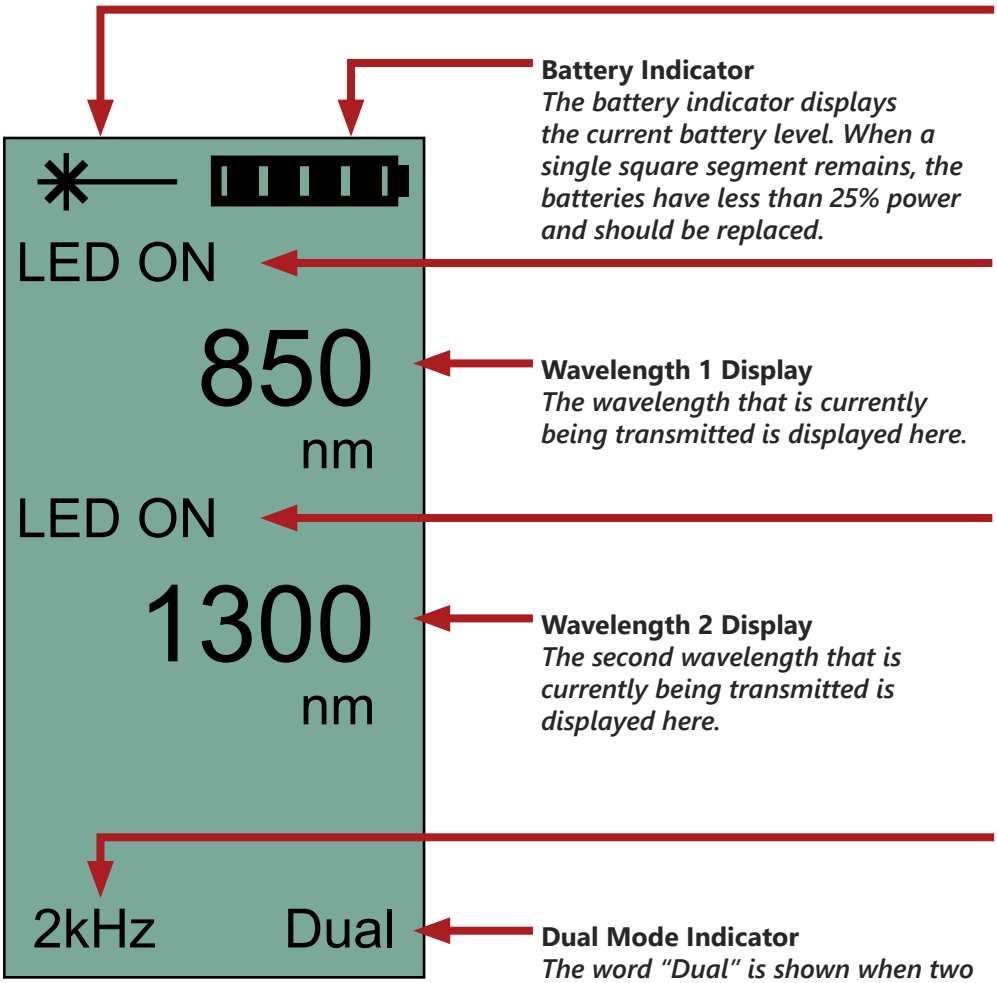
Do not leave item in direct sunlight or near heat sources, submerge in water, or subject unit to strong impact.

Cover the fiber interface with the flip-cap when not in use.

Do not throw this product away.

Contact your local recycling station to dispose of properly.

Understanding the Main screen



LED Indicator
When the LED is ON, the LED symbol will be displayed in this segment of the screen.

Battery Indicator
The battery indicator displays the current battery level. When a single square segment remains, the batteries have less than 25% power and should be replaced.

LED 1 Indicator
Displays whether the first wavelength is ON or OFF.

Wavelength 1 Display
The wavelength that is currently being transmitted is displayed here.

LED 2 Indicator
Displays whether the second wavelength is ON or OFF.

Wavelength 2 Display
The second wavelength that is currently being transmitted is displayed here.

Tone Indicator
Displays 2kHz, 1kHz, or 270Hz, if one of those modulated tones is being transmitted.

Dual Mode Indicator
The word "Dual" is shown when two wavelengths are being transmitted simultaneously.

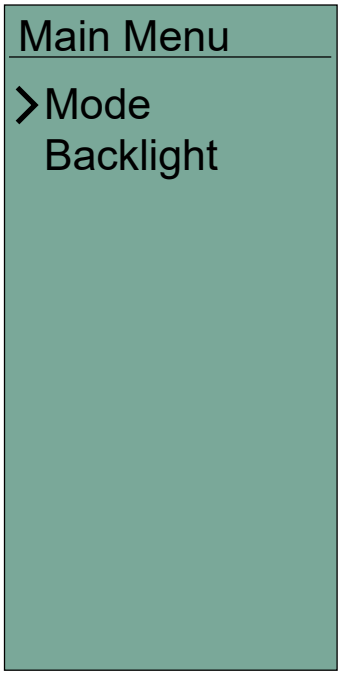
The Main screen of the DLS 650 acts as the general user interface for fiber testing.

Up to two wavelengths may be transmitted at the same time. The DLS 650 unit offers the 850nm and 1300nm multimode wavelengths.

When a single wavelength is selected for transmission, only that wavelength will be shown onscreen. Both wavelengths will be shown onscreen only when they are both selected for transmission.

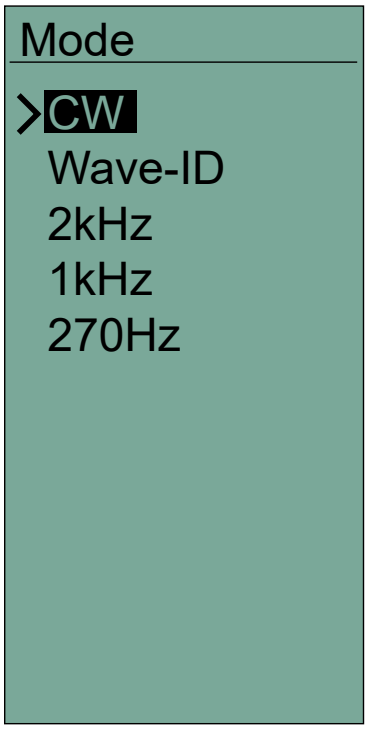
Transmission Mode

Press the OK/Menu button to access the Main Menu



Use the Up/Down arrow buttons to move the cursor to the option you would like to explore. Press the Left arrow button to go back to the Main screen. Press the OK/Menu button or the Right arrow button to select an option.

Press the OK or Right arrow button to select the Mode menu.



The Mode menu shows all modulation modes the DLS 650 can transmit.

CW indicates the continuous wave mode. This mode contains no modulation. CW mode can be used with any optical power meter.

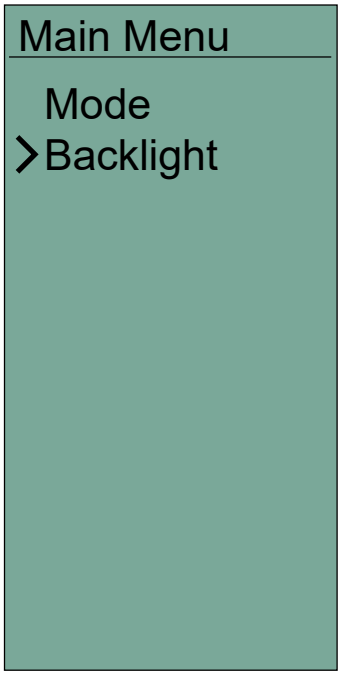
Wave-ID indicates the automated wavelength identification mode. In this mode, the DLS 650 wavelength information is transmitted and can be recognized by the RP 560-series of optical power meters. The RP 560 will automatically switch to measure the wavelength being transmitted.

2kHz, 1kHz, and 270Hz are all modulated signals that may be needed for continuity testing on fiber. Any ODM power meter will identify a 2kHz tone, but the 1kHz and 270Hz options are only compatible with the RP 560-series.

The currently-selected option is highlighted.

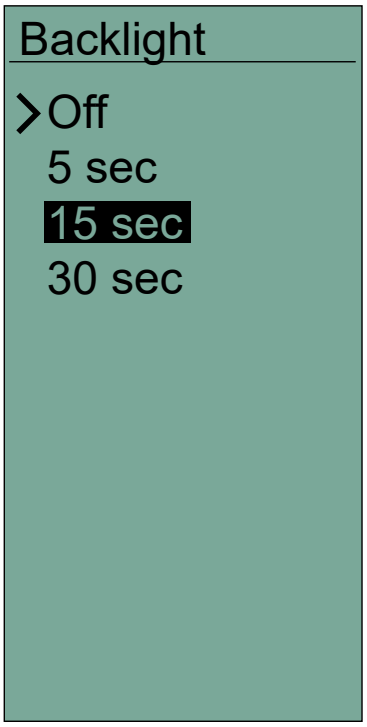
Settings

Press the OK/Menu button to access the Main Menu



Use the Up/Down arrow buttons to move the cursor to the option you would like to explore. Press the Left arrow button to go back to the Main screen. Press the OK/Menu button or the Right arrow button to select an option.

Press the OK or Right arrow button to select the Backlight menu.



The backlight menu displays the options for the screen light timer.

Use the Up/Down arrow buttons to move the cursor to the option you would like to select.

Use the OK/Menu or Right arrow button to activate the option. The currently-selected option will be highlighted.

The backlight will turn on each time a button is pressed on the DLS 650. The timer option indicates how long it is illuminated.

Certifications and Contact Information

CE

This product conforms with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA). This product was tested by an ISO 17025 accredited laboratory and complies with the following CE directives and standards listed below:

Directives:
Electromagnetic Compatibility (2014/30/EU)
Low-Voltage (2014/35/EU)
Standards:
EMC: EN 61326-1:2013 Industrial
Safety: EN/IEC61010-1:2010+A1:2016

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Contact us with any questions pertaining to this or any other ODM product.

Call 603-524-8350

Email tech.support@odm.ripley-tools.com

Visit us online at www.odm-inc.com