



# OPM150

## Optical Power Meter

User Guide \_ Version 1.0

**Ascentac**  
[www.ascentac.com](http://www.ascentac.com)

**T** +886-7-398-1000

**F** +886-7-398-3965

## **Copyright**

© Copyright 2026 Ascentac. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior permission of Ascentac.

## **Disclaimer**

Ascentac shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this user guide.

The material in this document is subject to change without notice. For the latest information regarding this product, please visit our website at <http://www.ascentac.com>.

All other trademarks and registered trademarks which appear herein are for reference purposes only and are the property of their respective owners.

# Warranty

Ascentac warrants the product against defects in material and workmanship within (1) year from the date of delivery. Under normal use and service, the product will be free from physical defects in material and workmanship during the warranty period, or the product will be repaired or replaced as determined solely by Ascentac.

During the warranty period, you and Ascentac will pay the shipping costs for repairing products for one time respectively. Products returned without proof of purchase or with warranty expired will be repaired or replaced by Ascentac's decision. You shall pay the charges, including maintenance cost, shipping, insurance, duties, taxes, import fees or others which may be caused.

This warranty provides you with specific legal rights. You may have additional rights which may vary from state to state and country to country. Because of individual state and country regulations, some of the above limitations and exclusions may not apply to you.

If any of the following conditions take place, the warranty shall be null and void.

- Defects or malfunction caused by human factors, accident, improper use not conforming to product manual instructions, abuse or unauthorized alteration, modification or repair of the product.
- The label with S/N has been altered or damaged.

**Notice:** Ascentac makes no warranty of any kind with regard to the content in this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

## Service & Support

If you have any questions or need any assistance, please contact our service center.

TEL: +886-7-398-1000

FAX: +886-7-398-3965

Address: 9F.-6, No. 12, Fuxing 4th Rd., Qianzhen Dist., Kaohsiung City 806611, Taiwan (R.O.C.)

Please prepare the following information before you contact us and describe the problems.


- Product model and S/N
- Warranty information

# Content

1. Safety Information .....	1
2. Introduction.....	2
2.1 Features.....	3
2.2 Application .....	3
3. Product Description.....	4
3.1 Appearance.....	4
3.2 Instruction.....	5
3.3 LED Indicator.....	5
4. Operation.....	6
4.1 Power-on & Power-off .....	6
4.2 LED Flashlight .....	6
4.3 Visual Fault Locator (VFL).....	6
4.4 Network Cable Tester .....	6

## 1. Safety Information

Read all safety information carefully before using this product to ensure personal safety and proper use.

- Assure the power supply conforming to the specification of this product and qualified for the country of use.
- Use batteries that meet the specifications of this product.
- Do not use damaged power cords, accessories or other peripheral equipment.
- Make sure the product is operated on the permitted ambient conditions.
- Never directly look into the optical outputs interface.
- Dangerous laser radiation: A yellow triangular warning symbol with a black border and a black starburst in the center, indicating a laser hazard.

## 2. Introduction

The Ascentac VFL 220 Series is a high-performance Visual Fault Locator (VFL) designed for fiber optic troubleshooting and diagnostic tasks. It excels at identifying issues such as poor connector mating, fiber breaks, and macro-bending. By enabling technicians to quickly locate and rectify faults, it ensures efficient problem resolution and can also be used for fiber identification to significantly reduce system installation time.

Featuring a handheld, palm-sized form factor, the VFL 220 is lightweight yet built with a ruggedized exterior to withstand demanding field conditions. Integrated with a high-intensity LED flashlight, the device allows for simultaneous VFL and LED operation. This "dual-mode" capability provides maximum convenience when working in dark or cramped environments.

Supports both Continuous Wave (CW) and Pulsed modes to suit different testing requirements. The powerful laser output generates a distinct red glow at the point of failure. Technicians can easily identify the exact location of the fault with the naked eye, ensuring a fast and effective repair process.

## 2.1 Features

- High Laser Output Power delivers a strong, stable signal for clear fault detection.
- Extended Visibility Range optimized for long-distance tracing and troubleshooting.
- Dual Operating Modes - Selectable Continuous Wave (CW) or Pulsed mode for versatile diagnostics.
- USB Type-C Charging
- Network Cable Testing
- 2.5 mm Universal Connector
- Ultra-Compact & Lightweight

## 2.2 Application

- Ideal for Fiber Optic Communications or CATV Installation and Maintenance.

### 3. Product Description

#### 3.1 Appearance

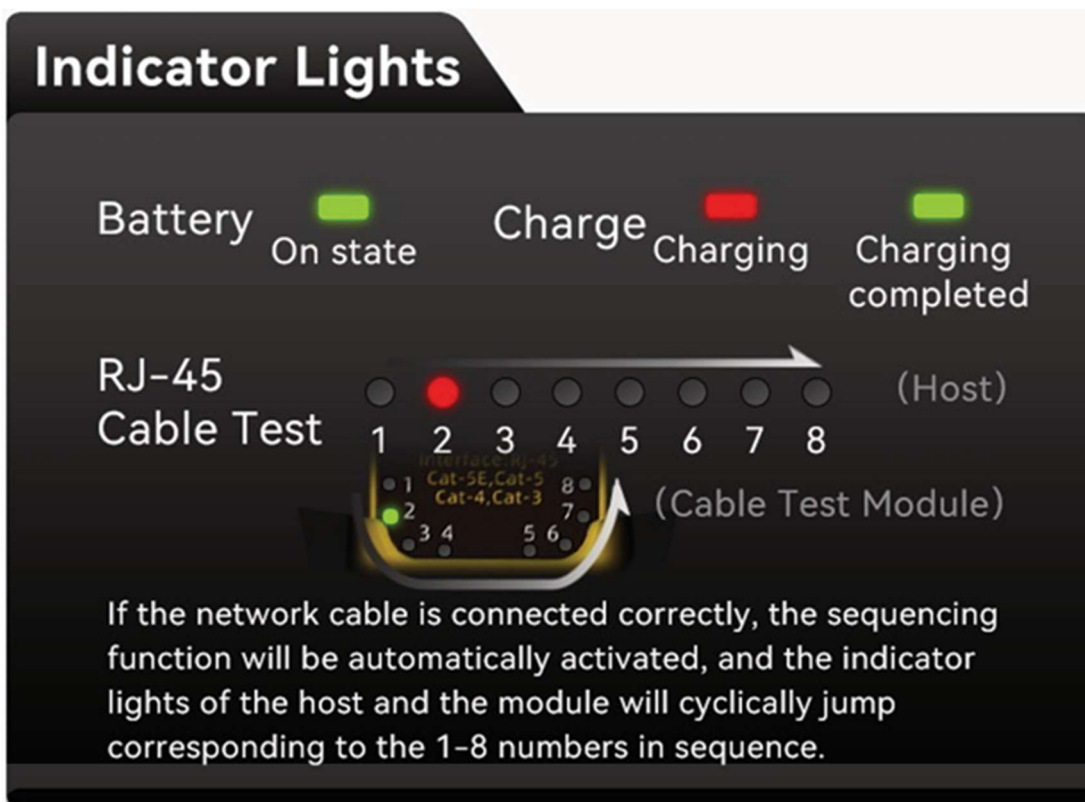
Front View



### 3.2 Instruction

Item	Function	Description
1	LED Flashlight	LED Illumination
2	VFL Optical Connector	2.5mm Universal Connector
3	Power Switch	Power On/Off (The Battery indicator will light up green when powered on.)
4	Wire Mapping / Continuity Test	Used for network cable sequence and connectivity verification.
5	Type-C Charging Port	Power Input
6	RJ45 Interface	Connect an RJ45 Ethernet cable here to perform network cable testing.

### 3.3 LED Indicator



- Power On: The Battery indicator remains solid green.
- Charging: The Charge indicator lights up red.
- Fully Charged: The Charge indicator turns green.

## 4. Operation

### 4.1 Power-on & Power-off

Power On: Slide the switch upward to turn on the power. The Battery indicator on the front panel will light up solid green to confirm the device is active.

Power Off: Slide the switch downward to turn off the power. All functions, including the LED flashlight and Visual Fault Locator (VFL), will be deactivated.

### 4.2 LED Flashlight

To Turn On: Press the LED button once to activate the flashlight function.

To Turn Off: Press the button again to deactivate the light.

### 4.3 Visual Fault Locator (VFL)

Press the VFL button to cycle through the laser modes as follows:

1st Press: Turns on Continuous Wave (CW) mode (Solid red light).

2nd Press: Switches to Pulsed mode (Flashing red light).

3rd Press: Turns the VFL OFF.

### 4.4 Network Cable Tester

Connection (Side A): Plug the A-end of the network cable into the RJ45 interface on the main unit.

Detach Remote: Remove the Remote Network Tester from the main unit by pressing the rear release latch (buckle). Connection (Side B): Plug the B-end of the cable into the Remote Network Tester.

Verification: Observe the LED indicators on both the main unit and the remote tester to ensure the wire sequence matches (1 through 8).