

General Description

The PDR4107S is a compact, lightweight optical fiber fusion splicer engineered for precision field splicing and network maintenance. Employing core alignment technology, it supports single-mode (SM), multimode (MM), dispersion-shifted (DS), and non-zero dispersion-shifted (NZDS) fiber types, delivering a typical SM splice loss of just 0.02 dB with a fast 5-second splice cycle. The unit incorporates a built-in Optical Power Meter (OPM) spanning -50 to +26 dBm and a Visual Fault Locator (VFL) with 10 mW output, providing a complete all-in-one fiber splicing solution. A 3000 mAh rechargeable lithium-ion battery and rugged construction ensure reliable performance across demanding field environments from -10°C to +50°C.



Key Features

- Compact, lightweight design ideal for field installation and network maintenance
- Core alignment technology ensuring high-precision, low-loss fiber splicing
- Fast 5-second typical splicing time with automatic and manual operating modes
- Supports SM, MM, DS, and NZDS fiber types for maximum versatility
- Built-in Optical Power Meter (OPM) — measurement range -50 to +26 dBm at 10 wavelengths
- Built-in Visual Fault Locator (VFL) with 10 mW output for fault identification
- 4.3-inch touch LCD display for intuitive, user-friendly operation
- Large splice data storage — 30,000 splice results and 200 images
- 3000 mAh rechargeable lithium-ion battery for extended field operation
- Rated for altitudes 0–5000 m, temperature -10°C to +50°C, wind up to 15 m/s

PDR VIDEOTRONICS (INDIA) PRIVATE LIMITED

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Technical Specifications

Parameter	Specification
Applicable Fibers	SM MM DS NZDS
Fiber Count	Single
Cladding Diameter	80 – 150 µm
Coating Diameter	1 – 3 mm
Fiber Aligning Method	Automatic / Manual
Focusing Method	Four-motor automatic focusing
Typical Splice Loss	SM: 0.02 dB MM: 0.01 dB DS: 0.04 dB NZDS: 0.04 dB
Return Loss	> 60 dB
Splicing Programs	53 preset + 40 user-defined
Splicing Modes	Auto / Calibrate / Normal / Special
Operating Mode	Automatic / Manual
Typical Splicing Time	5 seconds (standard SM fiber)
Tube Heating Programs	9 preset + 24 user-defined
Tube Heating Time	15 seconds Protection sleeve: 60 mm / 40 mm
Viewing & Display	4.3-inch Touch LCD
Splice Result Storage	30,000 results & 200 images
Loss Evaluation	Available
Tension Test	1.96 – 2.25 N
OPM Measurement Range	-50 to +26 dBm
OPM Accuracy	±0.25 dB
OPM Calibration Wavelengths	850 / 980 / 1270 / 1300 / 1310 / 1490 / 1550 / 1577 / 1625 / 1650 nm
VFL Output Power	10 mW
Interface	USB
Battery Capacity	3000 mAh, built-in lithium-ion
Power Supply	AC 100–240 V Adapter DC 13–15 V
Electrode Life	3000 arc discharges
Operating Conditions	Temperature: -10°C to +50°C Altitude: 0–5000 m Wind: max 15 m/s
Dimensions (L×W×H)	140 mm × 217 mm × 115 mm
Weight	1.3 kg

Applications

- Fiber-to-the-Home (FTTH) and Fiber-to-the-Building (FTTB) network installations
- Telecommunications network construction, deployment, and maintenance
- Cable TV (CATV) and broadband infrastructure rollout
- Data centre interconnects and enterprise LAN fiber cabling
- Military and industrial fiber optic communication systems
- Field restoration and emergency repair of fiber optic links

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Ordering Information

Standard Package Contents

Item	Quantity
Fusion Splicer — PDR4107S	1
Fiber Cleaver	1
Spare Electrodes	1 pair
Fiber Coating Stripper	1
Skin-Line Stripper	1
Cooling Tray	1
Power Adaptor	1
Power Cord	1
Carrying Case	1
User Manual	1

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