

General Description

The PDR618H is a compact, handheld fusion splicer engineered for high-performance fiber optic splicing in both field and laboratory environments. Supporting single-mode, multimode, dispersion-shifted, and non-zero dispersion-shifted fibers in accordance with ITU-T standards, it achieves an 8-second splice cycle and 26-second heat shrink time for outstanding productivity. Automatic ARC calibration continuously adjusts to ambient temperature and air pressure, delivering consistent splice quality across varying field conditions. A 5200 mAh hot-swappable lithium-ion battery provides extended operational run time, while the USB 2.0 port enables software upgrades and splice data export.



Key Features

- Handheld, compact and lightweight design optimised for field and indoor deployment
- Ultra-fast 8-second splicing time and 26-second tube heating time
- 5200 mAh hot-swappable lithium-ion battery — typical 200+ splice/heat cycles per charge
- Automatic ARC calibration via real-time temperature and air pressure sensing
- USB 2.0 port for software updates and splice data export
- Dual CMOS camera system with 4.3-inch colour LCD display
- 250× (single-axis) and 125× (dual-axis) fiber view magnification
- Stores up to 4000 splice results with integrated loss evaluation
- Intuitive GUI menu interface for easy, guided operation
- Rated for altitudes 0–5000 m, temperature –10 °C to +50 °C, wind up to 15 m/s

PDR VIDEOTRONICS (INDIA) PRIVATE LIMITED

ADDRESS

99, Old Prabhadevi Road
Mumbai 400 025, India

CONTACT

T: +91 22 2430 6494 / 2430 9536 / 2436 1647
M: +91 86910 00897 / 95946 56333

ONLINE

E: info@pdrworld.com
W: www.pdrworld.com

Technical Specifications

Applicable Fibers	SM (ITU-T G.652 & G.657) MM (ITU-T G.652 & G.657) DS (ITU-T G.652 & G.657) NZDS (ITU-T G.652 & G.657)
Fiber Count	Single
Cladding Diameter	80 – 150 μ m
Coating Diameter	160 – 900 μ m
Typical Splice Loss	SM: 0.02 dB MM: 0.01 dB DS: 0.04 dB NZDS: 0.04 dB G.657: 0.02 dB (ITU-T Standard)
Return Loss	> 60 dB
Fiber Cleaved Length	10 – 16 mm (coating dia. < 250 μ m) 16 mm (coating dia. 250 – 900 μ m)
Splicing Programs	40 groups
Operating Mode	Manual / Automatic
Auto-Heating	Available
Typical Splicing Time	8 seconds
Tube Heating Time	26 seconds (60 mm and 40 mm shrinkable sleeves)
Fiber View Magnification	250 $\times$ (X or Y axis) 125 $\times$ (X and Y axis)
Viewing & Display	2 $\times$ CMOS cameras, 4.3-inch colour LCD monitor
Splice Result Storage	4000 results
Loss Evaluation	Available
Tension Test	1.8 – 2.2 N
Interface	GUI menu — intuitive operation
Battery Capacity	5200 mAh, hot-swappable lithium-ion
Power Supply	Adaptor — Input: AC 100–240 V (50/60 Hz)
Electrode Life	> 4000 ARC discharges (field-replaceable)
Terminals	USB 2.0 — data upload & software upgrade
Operating Conditions	Altitude: 0–5000 m Humidity: 0–95% Temperature: –10 °C to +50 °C Wind: max 15 m/s
Dimensions (L $\times$ W $\times$ H)	149 mm $\times$ 120 mm $\times$ 127 mm
Weight	1.9 kg (including battery)

Applications

- Fiber-to-the-Home (FTTH) and Fiber-to-the-Building (FTTB) network installations
- Telecommunications network construction and maintenance
- Cable TV (CATV) and broadband infrastructure deployment
- Data centre interconnects and enterprise LAN 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 — PDR618H	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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