

# FTR-810-kits

## Quick Field Troubleshooting and Repair Kits – Optical Fiber

FTR-810 kits are designed for field quick troubleshooting and repair on optical fiber link. It contains a FFR-20, the fiber ranger - a simplified OTDR for quick identification of faults, a mini optical power meter for testing output power and all necessary tools and kits for field fast and efficient terminations and repairs. The mini cleaver and fast mechanical splice are so convenient for field technician to fix the broken fiber fast with low insertion loss.

### Key Features

- Highly Portable
- Suitable for both SM and MM Terminations



### Standard Package\*\*

| No | Tool Name                 | Q'ty | Application  |
|----|---------------------------|------|--|
| 1  | FFR-20 - Fiber Ranger     | 1    | It is used to quickly identify the faults              |
| 2  | FPM-10 - Mini Power Meter | 1    | test the output power                                  |
| 3  | Fast Mechanical Splices   | 5    | Fast field fiber connection                            |
| 4  | Mini Cleaver              | 1    | Cut the bare fiber before using fast mechanical splice |
| 5  | Alcohol Bottle            | 1    | 5ml alcohol bump bottle                                |
| 6  | Cleaning Stick            | 5    | Cleaning the fiber before cutting fiber and splicing   |
| 5  | Internal Hexagonal Wrench | 1    | Take apart or assemble the splicing closure            |
| 6  | Dual-port Stripper        | 1    | Strip the jacket or coated fiber                       |
| 7  | Monkey Wrench             | 1    | Take apart or assemble the splicing closure            |
| 8  | Wire Cutter               | 1    | Cut the strengthened cable core                        |
| 9  | Utility Knife             | 1    | Cut the cable  |
| 10 | Cross Screwdriver         | 1    | Take apart or assemble the splicing closure            |
| 11 | Straight Screwdriver      | 1    | Take apart or assemble the splicing closure            |
| 14 | Manual                    | 1    | Manual of fiber ranger and mini power meter            |
| 15 | Hard Carrying Case        | 1    | Contain all above tools                                |

\*\* Customized package is available upon request

## Specifications

### FFR-20

| Model No.                   | FFR-20A  | FFR-20B |
|-----------------------------|--|---------|
| Wavelength                  | 1550nm   | 1310nm  |
| Fiber Type                  | 9/125 um Single Mode   |         |
| Connector Type              | FC/PC  |         |
| Max. Output Power           | 60mW   |         |
| Max. Measurement Range      | 60km (≥1dB, Reflection event)<br>20km (≥2.5dB, Non-Reflection event) |         |
| Distance Accuracy(m)        | ± (2m+0.2%x distance) (Reflection event)                             |         |
| Event Dead Zone             | 15m (Reflection event)   |         |
| VFL Wavelength              | 650nm  |         |
| VFL Output Power            | >1mW and optional for higher power (3, 5, 10mW)                      |         |
| Power Supply                | AA Batteries 3 pcs   |         |
| Battery Life (Fiber Ranger) | ≥ 5,000 times typical measurement                                    |         |
| Battery Life (VFL)          | > 10 hours   |         |
| Operating Temp.             | -5 ~ +40°C   |         |
| Storage Temp.               | -10 ~ +60°C  |         |
| Relative Humidity           | 0 ~ 85% (non-condensing)   |         |
| Dimension (mm)              | 190×100×50   |         |
| Weight (g)                  | 450  |         |

Note: Specifications subject to change without notice



### FPM-10

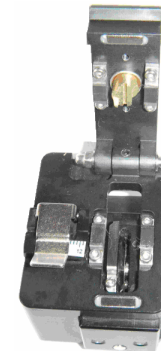
| Model                     | FPM-10A  | FPM-10B   | FPM-10C   | FPM-10D   |
|---------------------------|--|-----------|-----------|-----------|
| Wavelength(nm)            | 800 ~ 1700nm   |           |           |           |
| Detector                  | InGaAs   |           |           |           |
| Measurement Range (dBm)   | -60 ~ +3   | -50 ~ +10 | -40 ~ +20 | -30 ~ +30 |
| Uncertainty               | ±5%  |           |           |           |
| Calibrated Wavelength(nm) | 850, 980, 1310, 1550nm                                 |           |           |           |
| Resolution(dB)            | 0.01   |           |           |           |
| Optical Connector         | FC(interchangeable SC,ST) / as well as 2.5mm universal |           |           |           |
| Power Supply              | Alkaline Battery                                       |           |           |           |
| Battery Operating Time    | 360 hours with three 1.5V batteries                    |           |           |           |
| Operating Temperature     | -10 ~ +60°C  |           |           |           |
| Storage Temperature       | -25 ~ +70 °C   |           |           |           |
| Relative Humidity         | 0 to 95% (non-condensing)                              |           |           |           |
| Dimension (mm)            | 115 x 60 x 20  |           |           |           |
| Weight (g)                | 105  |           |           |           |

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### Cleaver

|                            |              |
|----------------------------|--------------|
| Applicable Fiber           | Simplex      |
| Bare Fiber Diameter (µm)   | 125          |
| Coated Fiber Diameter (mm) | 0.25 ~ 0.9   |
| Cleaving Angle             | 90° ±0.5°    |
| Cleaving Length (mm)       | 10 ~ 20      |
| Blade Lifespan             | ≥36000 times |
| Dimension (mm)             | 56 × 43 × 50 |
| Weight (g)                 | 215          |



## Ordering information

### FTR-810-Kits