Kimtech
C O M M U N I C A T I O N S

KTC-11 Optical Fiber Identifier model

Description

Can quickly identify the direction of transmitted fiber and display the relative core power without interrupting the current service. The fiber identifier recognizes modulation like, 270Hz, 1kHz and 2kHz with continuous audible tone. There are four adapter heads available : ø0.25, ø0.9, ø2.0, ø3.0 . The optical fiber identifier is powered by 2 pcs very normal AA batteries.
It's easy to carry and loss can be avoided with new adaptors box

Specification

Model	KTC-11	
Identified Signal Type	CW, 270Hz ± 5% , 1kHz ± 5% , 2kHz ± 5%	
Detector Type	Ø1mm InGaAs 2pcs	
Adaptor Type	Ø0.25 (Applicable for bare fiber) Ø0.9 (Applicable for Ø0.9 Cable) Ø2.0 (Applicable for Ø2.0 Cable) Ø3.0 (Applicable for Ø3.0 Cable)	
Signal Direction	Left & Right LED	
Signe Direction Test Range (dBm, CW/0.9mm bare fiber)	-45 ~ 10 (1310nm) -48 ~ 10 (1550nm)	
Signal Power Test Range (dBm, CW/0.9mm bare fiber)	-50 ~ ±10	
Signal Frequency Display (Hz)	270, 1k, 2k	
Frequency Test Range (dBm, Average Value)	Ø0.9, Ø2.0, Ø3.0	-30 ~ 0 (270Hz, 1kHz) -25 ~ 0 (2kHz)
	Ø0.25	-25 ~ 0 (1kHz, 2kHz) -20 ~ 0 (2kHz)
Insertion Loss (dB, Typical Value)	0.8 (1310nm) 2.5 (1550nm)	
Alkaline Battery (V)	2 pcs AA batteries	
Operating Temperature (°C)	-0 ~ ±50	
Storage Temperature (°C)	-10 ~ ±70	
Dimension (mm)	196x30.5x27	
Weight (g)	195	

Standard Accessories

- Optical Fiber Identifier.....................1
- User Manual.......................................1
- Adapter Heads..................................4
- Batteries...2
- Portable Bag.....................................1
- Storage for Adapters.......................1
- Sunshade 1

(When test 2.0mm or 3.0mm cable should use this Sunshade)

Function Description

1. Clamp = clamp and hold the fiber in a suitable location.
2. Clamp pushing button
   - Press the button up and press downward to fix the adapter head
   - Press the button again to loosen the adapter head
3. LED indicator = The LED indicator to show the signal direction, modulation and battery level

Direction indicator

Relative Core Power

Clamp Button

Sunshade

Battery Level Indicator

Relative Core Power
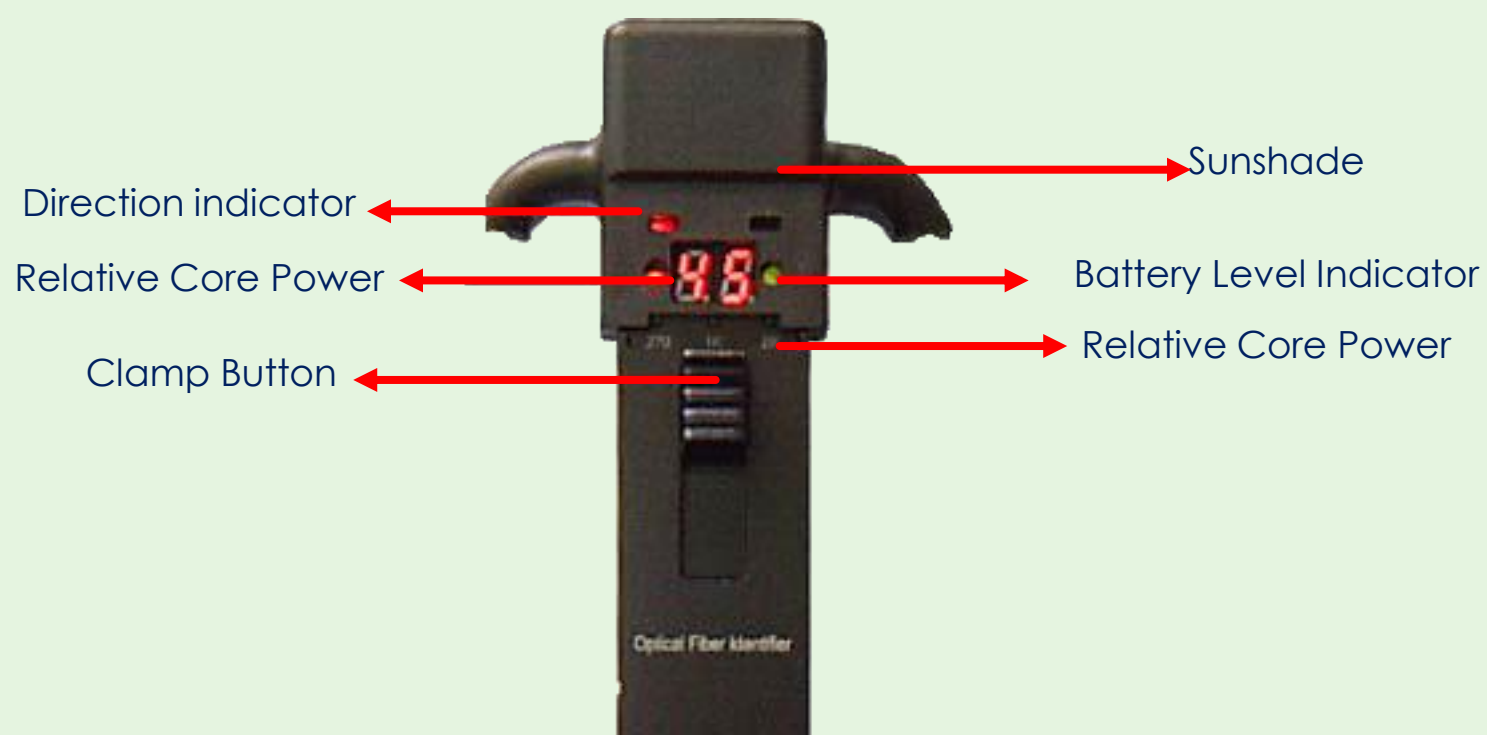
Use instructions

1. **Selecting Adapter**
   - Select the appropriate adapter head according to the different types of fiber. When no need other adapters, you can put them into the storage for the adapters.
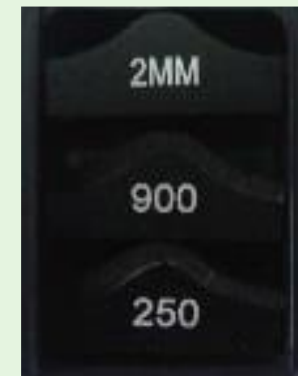
   - Insert the fiber to the adapter head when using the ø20. and ø3.0 connecters
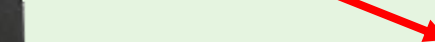
Adapter head groove

   - Insert the fiber to the groove on the clamp when using the ø900 and ø250 connecters

Groove on the clamp

Detector

2. **Clamp and Loosen**
   - Please insert the fiber into the adapter head and then push the "clamp pushing button" up to clamp the fiber and test it. When testing the fiber, the clamp can be locked.
   - Please push forward slightly to loosen the adapter head
3. **On / Off**
   - Push up the "clamp pushing button" to turn on the unit
   - Loosen the "clamp pushing button" to turn off the unit

4. Optical Fiber Identification
    - Insert the fiber to the adapter head, push the button up to lock clamp
    - When optical signal passes the fiber, the LED illuminator will indicate the traffic's direction with intermittently audible tone and the relative core power will be also displayed in digital format.
    - If no optical signal passes the fiber, the LED illuminator is dead and the "LO" will be displayed in the relative core power position.
    - Fiber identifier can also detect the presence of 2kHz, 1kHz and 270Hz modulated tone with the continuously audible tone.

5. Battery Power Indication
    - When the LED indicator is green, the battery power is full.
    - When the LED indicator is yellow, then the power is low but the instrument can still work and test result is still reliable.
    - When the LED indicator is red, the power is too low and the instrument cannot work properly and you have to replace the battery.

6. Maintenance
    - The fiber should be put in the groove according to the specific type.
    - Please use the cotton swabs to clean the detector surface regularly to keep it from dust.
    - Please take out the battery when it is not in use for a period of time.