

UT691C

Optical Fiber Identifier



User Manual

PREFACE

Thank you for purchasing the new Optical Fiber Identifier. To use this product safely and correctly, please read this manual thoroughly.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

LIMITED WARRANTY AND LIABILITY

Uni-Trend guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damage caused by accident, negligence, misuse, modification, contamination and

improper handling. The dealer shall not be entitled to give any other warranty on behalf of Uni-Trend. If you need warranty service within the warranty period, please contact authorized service center or send the product back with problem description.

This warranty is the only compensation you can obtain. Uni-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

Product Appearance



1 Fiber Slot

2 LED Flashlight (Rear)

3 LCD

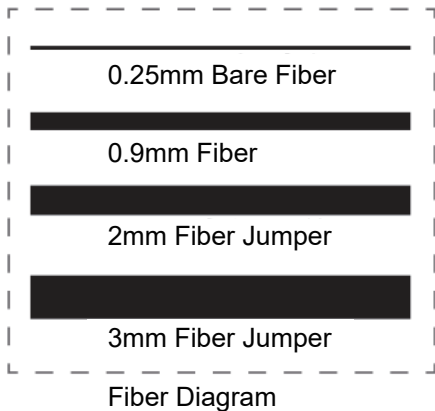
4 Type-C Port (Side)

5 Test Trigger

6 LED Control

7 VFL Control

8 VFL Port (Bottom)



This product can test 250μm, 900μm, 2mm, and 3mm fibers.

It uses macro-bending technology for non-destructive fiber testing. It effectively identifies fiber transmission direction and audio modulated signals (270Hz, 1kHz, 2kHz) without damaging the fiber.

Note: Due to variations in manufacturing processes, we cannot guarantee that all fiber patch cords are measurable. It is recommended not to use the identifier to detect the transmission direction of multi-mode fibers. Currently, this device is designed only for single-mode fiber direction identification. For multi-mode fibers, it can detect the presence of light, but direction accuracy is not guaranteed and should be used for reference only.

Power On/Off





Short press "  " or "  " button to power on the device and enable the corresponding functions. The device will be auto power off after the function is disabled.

Supports rapid testing. In any state (including in power-off state), pushing the identifier trigger upward will directly enter the functions of device.

Power Saving Function



In the LED or VFL function interface, when the "  " icon is displayed in the menu bar, the device will be auto power off after approximately 10 minutes of no operations.



Power-Saving Function ON

In the LED or VFL function interface, long press the "" button, the "" icon will disappear, and the power-saving function will be off.



Power-Saving Function OFF

VFL and LED Flashlight

In the identifier interface or power-off state, short press the "" button to cycle through the VFL modes: ON (Solid) -
Flashing - OFF.



VFL ON



In the identifier interface or power-off state, short press the "  " button to control the LED flashlight ON or OFF.

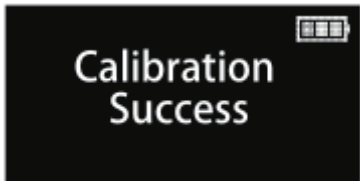


LED ON

Ambient Light Calibration

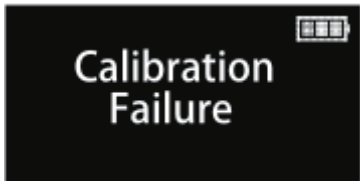


In the identifier function interface, long press the "  " + "  " buttons to function the ambient light calibration. A long beep from the buzzer indicates that the calibration was successful.



Calibration Success

If the current ambient light exceeds the calibration limit or the difference between the PD (Photo Detector) signals on both sides is too large, the buzzer will emit three short beeps to indicate that the calibration failed.



Calibration Failure

Display Interface Switching



Long press the "  " button in the identifier interface to switch between the display interface of Optical Power Value and the Optical Power Intensity Bar.



Optical Power Value Display Interface

(Stable optical input)



Optical Power Intensity Bar Display Interface

(Stable optical input)

Signal and Carrier

When there is a signal transmitting in a single direction within the fiber, the identifier can correctly determine the signal direction and indicate it via arrows on the interface.



(Stable optical input)

When a carrier signal of 270Hz, 1kHz, or 2kHz is detected, the screen will display the frequency value while the buzzer emits an intermittent beep. When other carrier signals are detected, the screen will display the frequency value, but the buzzer will not respond.



Optical input with carrier signal

Charging Indications

While in the power-on state, connect the charger and a charging icon will appear at the top of the screen. The bars within the battery icon will cycle continuously; once fully charged, the battery icon will show all bars as full.

(Note: Do not enable the identifier function while charging. Power grid frequency interference during charging may affect the

accuracy of the measurements.)



Charging in power-on state

While in the power-off state, connect the charger and the bars within the battery icon will cycle in the center of the screen; once fully charged, the battery icon will show all bars as full.

(Please use a 5V/1A power adapter and the standard charging cable provided to connect to the charging port.)



Charging in power-off state

Technical Parameters

Model	UT691C
Live Fiber Identifier Parameters	
Fiber Types	250μm/900μm/2mm/3mm fiber
Wavelength Range	700 to 1700nm
Direction Identification Range	-40 to +10dBm (Optical Source Wavelength: 1550nm)
Frequency Identification Lower Limit	-40dBm
Insertion Loss	< 3dB @ 1310nm; < 3dB @ 1550nm

Fiber Fixture	4-in-1 universal fixture
Detected Frequencies	270Hz, 1kHz, 2kHz
Visual Fault Locator (VFL) Parameters	
VFL Wavelength	650nm $\pm$ 20nm
VFL Port	2.5mm Universal port
VFL Output Power	10mW (solid light/2 $\pm$ 0.5Hz flashing)
Other Parameters	
Power Supply	3.7V 400mAh Lithium battery
Charging Port	Type-C port
LED Flashlight	√
Buzzer Prompt	√
Operating Temperature	Operating temperature: - 10 to 45°C Storage temperature: -20 to 45°C
Physical Specs	Size: 152mm*41mm*32mm; Weight: About 80g;

*Test Conditions: 1. Source Wavelength: 1550nm; 2. Fiber jumper diameter: 2mm; 3. Temperature: $-23 \pm 5^{\circ}\text{C}$; 4. Affected by fiber coating/jacket color and mechanical properties.

Packing List

Item	Quantity
Optical Fiber Identifier	1
Gift Box	1
PE Bag	1
User Manual	1
Type-C Charging Cable	1

The manual is subject to change without prior notice!

Due to different batches, the materials and details of actual products may be slightly different from the graphic information, please refer to the actual product received. Experimental data provided on the page is from internal laboratory of UNI-T, but it should not be a reference for customers to place orders. Any questions, please contact the customer service, thanks!

UNI-T[®]

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Made in China

P/N:110401114503X

彩盒 菲林做货要求：

序号	项目	内容	备注
1	尺寸	120*80MM 折后尺寸：60*40mm	
2	材质	60g书纸	
3	颜色	单色	
4	外观要求	完整清晰、版面整洁，无斑墨、残损、毛边、刀线错位等缺陷。	
5	装订方式	钉装	
6	表面处理		
7	其它	无	
版本			
DWH 设计	康念园2026/6/4	MODEL 机型： UT691C	
CHK 审核		Part NO. 物料编号： 110401114503X	
APPRO. 批准		 优利德科技（中国）有限公司 UNI-TREND TECHNOLOGY (CHINA) LIMITED	