

# 使用说明书

## 电动光纤识别仪



### 概述

S2电动光纤识别仪采用微弯技术对线路做无损测试,可以测量光信号方向,以及光纤频率识别,可以检测光信号中加载的固定频率信号270Hz、1KHz和2KHz。机身造型设计符合人体工程学要求,采用先进冷塑模工艺,美观耐用,无需更换夹纤头即可测量Φ0.25mm裸光纤、Φ0.9mm Φ2.0mm Φ3.0mm尾纤。

### 特性

- 检测光纤信号方向。
- 检测光信号中加载的固定频率信号270Hz、1KHz和2KHz。
- 无需更换夹纤头即可测量多种直径光纤(Φ0.25mm裸光纤、Φ0.9mm Φ2.0mm Φ3.0mm尾纤)
- 测量850nm-1700nm波长的单模和多模光纤。

### 按键说明

标识	名称	说明
	开关机按键	1.长按 2s 开机/关机。 2.短按,打开/关闭自动关机功能。 同时显示屏上图标会显示点亮/熄灭。 开机默认开启10min自动关机功能。
	检查光纤按键	1.短按,进行光纤方向检测,再次短按,取消光纤方向检测 2.光纤方向 (1)光方向从右到左 <<<<<< (2)光方向从左到右 >>>>>> (3)未检测到光方向 <<<<<< >>>>>> <<<<<< >>>>>> <<<<<< >>>>>> <<<<<< >>>>>>
	照明灯按键	短按,开启/关闭LED照明。 同时显示屏上图标会显示点亮/熄灭。
	650红光按键	短按,开启-再次短按闪烁-再次短按关闭红光,依次循环。 同时显示屏上的图标会同时显示点亮/闪烁/熄灭。 <b>警告!请勿直视激光光,以免对眼睛造成伤害</b>

### 显示屏功能介绍

### 操作说明

夹线槽放入被测光纤后,按下“”即可测量。

### 配置清单

光纤识别仪主机、便携包、说明书、合格证、保修卡、挂绳、充电线。

### 常见故障解决办法

故障提示	可能原因	解决办法
不能开机	电源不足或其他	检查充电是否安装好,电池是否有电
识别错误	使用不可测光纤 未正确放置光纤	仅可测量允许的光纤 退出,重新正确放置光纤
无法识别	衰减太大	重新夹纤

### 技术指标

识别波长范围 (nm)	850至1700
探头类型	InGaAs
电机类型	直流电机
显示屏	1.77寸FTF彩屏
适配器类型 (mm)	Φ0.25(用于裸纤), Φ0.9,Φ2.0,Φ3.0(用于尾纤)
调制频率 (Hz)	CW,270,1K,2K
信号方向指示	左右,屏幕上方,方向指示
信号检查范围 (dBm,CW/0.9mm)	-40~+10(1550nm) -30~+10(1310nm)
频率检查范围 (dBm,平均)	-35~+10
插入损耗 (dBm,典型值)	0.8(1310nm), 2.5(1550nm)
电源	充电锂电池
充电电压 (V)	5
充电电流 (A)	≤ 1.6
充电时长 (H)	≤ 3
静态电流 (μA)	≤ 18
工作次数	≥ 1000次
锂电池容量 (mAh)	800
工作温度 (°C)	-10~60
存储温度 (°C)	-25~70
自动关机 (min)	10
尺寸 (mm)	160*50*35
重量 (g)	200

\*数据仅供参考,请以实物为准。

### 功能说明

### 注意事项

夹线槽内不可放置除光纤以外的任何异物,否则会机器带来损伤。

### 日常保养与维护

- 光纤连接适配器应避免与硬物接触,并保持清洁。
- 存放时应通风干燥,避免受潮。
- 长期不使用时,应关机后存放。

定期性清洁适配器表面,清洁适配器表面时,请使用专用清洁棉签圆周方向轻轻擦拭。

### 质量保证

- 自用户收到货十二个自然月内,我司将对其产品的质量及工艺承诺,保修期为收货之日起十二个月内:当购买的产品在此期间被发现有质量问题,我司将会作出相应的处理或更换,但任何情况下,我司的责任不会超过该产品的购买价值。
- 如果仪表在使用过程中出现问题,根据常见故障提示方案仍无法解决,用户不得擅自打开机壳,请与我司联系。
- 对于产品缺陷造成故障,我司负责免费维修或更换产品。

注:此保证仅适用于正常使用仪表,而且无损坏或正常使用情况下,由于产品质量或物料缺陷造成故障,我司负责免费的维修或者更换。对于意外情况、不正当使用擅自开机维修的我司有权拒绝保修。

说明书版本若有变更,恕不另行通知。

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深圳市开腾通讯有限公司  
公司官网: www.kai tengtx.com

# Instruction Manual

## Optical Fiber Identifier



### Overview

The fiber optic identification instrument uses micro-bending technology to do non-destructive testing of the line.Measurement of optical signal direction is possible,and fiber optic frequency identification.Detection of fixed-frequency signals 270Hz, 1KHz and 2KHz loaded in the optical signal.Ergonomic body shape design,Advanced cold molding process,Durable and aesthetically pleasing.You can measure Φ0.25 mm bare fiber and Φ0.9 mm Φ2.0 mm Φ3.0mm pigtail without replacing the clip.

### Characteristic

- Detecting fiber optic signal direction.
- Detection of fixed frequency signals 270Hz, 1KHz and 2KHz loaded in the optical signal.
- Measurement of multiple fiber diameters without changing fiber clamps (Φ0.25mm bare fiber, Φ0.9mm Φ2.0mm Φ3.0mm pigtail fiber)
- Measurement of singlemode and multimode fibers at 850nm-1700nm wavelengths

### Key Description

Keystrokes	Name	Illustrate
	Power On/Off Button	1.Press and hold for 2s to turn on/off 2.Short press,Turn on/off the auto power off function At the same time the icon on the display will show lit/off. Turn on the default 10min auto power off function
	Checking the fiber optic keys	1.Short press,Perform fiber optic direction detection,Short press again,Cancel fiber optic direction detection 2.Fiber optic direction (1)Light direction from right to left <<<<<< (2)Light direction from left to right >>>>>> (3)No light direction detected <<<<<< >>>>>> <<<<<< >>>>>> <<<<<< >>>>>> <<<<<< >>>>>>
	LED light button	Short press,Turn on/off LED lighting At the same time, the icon on the display will show light on/off.
	650 Red Light Pushbutton	Short press,Turn on - short press again to blink-short press again to turn off the red light,loop in sequence. At the same time the icons on the display will simultaneously show lighted - blinking - extinguished. <b>Warnings!Do not look directly at the laser light, To avoid damage to the eyes</b>

### Display Function Introduction

### Operating Instructions

After placing the fiber under test in the clamping port,Press the Check Fiber button to measure.

### Configuration list

Optical fiber identification machine host,Portable bag,instruction manual, Certificate of conformity warranty card,Lanyard,Charging USB cable

### Common Troubleshooting Solutions

Troubleshooting	Possible causes	Method settle an issue
Can't turn on the computer	Insufficient power or other	Check if charging is installed, Whether the battery is charged or not
Identification error	Using unmeasurable optical fibers Failure to place the fiber correctly	Only allowed optical fibers can be measured Exit and reposition the fiber optic correctly
Unrecognizable	Too much attenuation	Re clamp the fiber

### Technical Indicators

Recognize wavelength range (nm)	850-1700
Probe Type	InGaAs
Motor Type	DC motor
Display Screen	1.77 inch FTF color screen
Adapter Type(mm)	Φ0.25 (for bare fiber), Φ0.9, Φ2.0, Φ3.0 (for pigtail)
Modulation frequency	CW,270,1K,2K
Signal direction indication	Left and right, above the screen, direction indication
Signal check range(dB m,CW/0.9mm)	-40~10(1550nm) -30~10(1310nm)
Frequency check range(dB m, average)	-35~10
Insertion Loss (dB m, typical)	0.8(1310nm), 2.5(1550nm)
Power supply	Rechargeable Lithium Battery
Charging Voltage (V)	5
Charging current (A)	≤ 1.6
Charging duration (H)	≤ 3
Quiescent current (μ A)	≤ 18
Work frequency	≥ 1000 times
Li-ion battery capacity (mAh)	800
Working temperature (°C)	-10~60
Storage temperature (°C)	-25~70
Automatic shutdown (min)	10
Dimension (mm)	160*50*35
Weight (g)	200

\*The data is for reference only, The actual object prevails

### Function Description

### Matters needing attention

No foreign objects other than optical fibers should be placed inside the fiber clamping port.Failure to do so can cause damage to the machine

### Routine Care And Maintenance

- Fiber optic connection adapters should avoid contact with hard objects.And keep it clean.
- Storage should be ventilated and dry.Avoid moisture
- When not in use for a long time,Should be stored with the machine turned off. Periodic cleaning of adapter surfaces,When cleaning the surface of the adapter, Please use special cleaning swabs to gently wipe in a circular direction.

### Quality Assurance

- Within twelve natural months from the date of receipt of the goods by the user, Our company will commit to the quality and workmanship of its products. Warranty period is twelve months from the date of receipt of goods:When the purchased product is found to have a quality problem in the meantime,We will dispose or replace it accordingly,But in any case,Our liability will not exceed the purchase value of the product.
- If there is a problem with the meter during,Still can't be solved according to the Common Troubleshooting Tips program.Users are not allowed to open the casing without authorization,Please contact us.
- For product defects causing failures,We are responsible for free repair or replacement of products.

Note:This warranty applies only to the normal use of the meter,and without damage or normal use,Failure due to product quality or material defects,We are responsible for free repair or replacement,For unforeseen circumstances, Improper use,Our company has the right to refuse the warranty if you open the machine for repair without authorization.

The version of the manual is subject to change without notice.

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