



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

## **TC-270 SMART OTDR WITH OPTICAL POWER METER+VFL+LASER SOURCE**

**FOUR-IN-ONE TESTER: OTDR + POWER METER + VFL + LASER SOURCE**



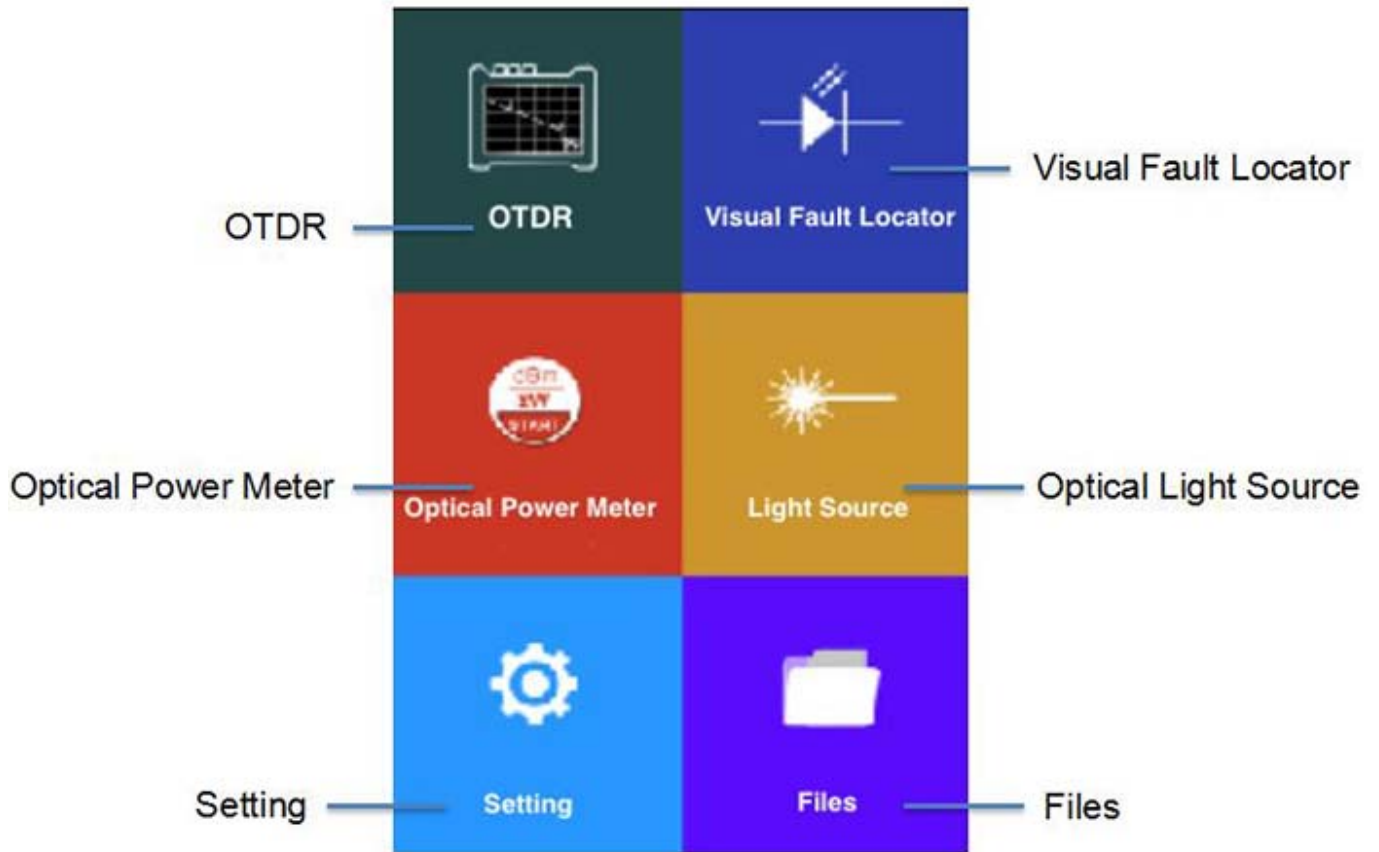
### **I. INTRODUCTION**

TC-270 Smart OTDR is a new generation of portable and intelligent measuring instrument designed by TUCSON-OPTIC. It adopts 4-inch color touch screen. The internal integration can help customers effectively solve the field test & maintenance. TC-270 Smart OTDR is mainly used to measure the length, loss and connection quality of all kinds optical fiber cables. It can also be widely used in engineering construction, line maintenance & testing, emergency repair, the development and production of optical fiber cables.

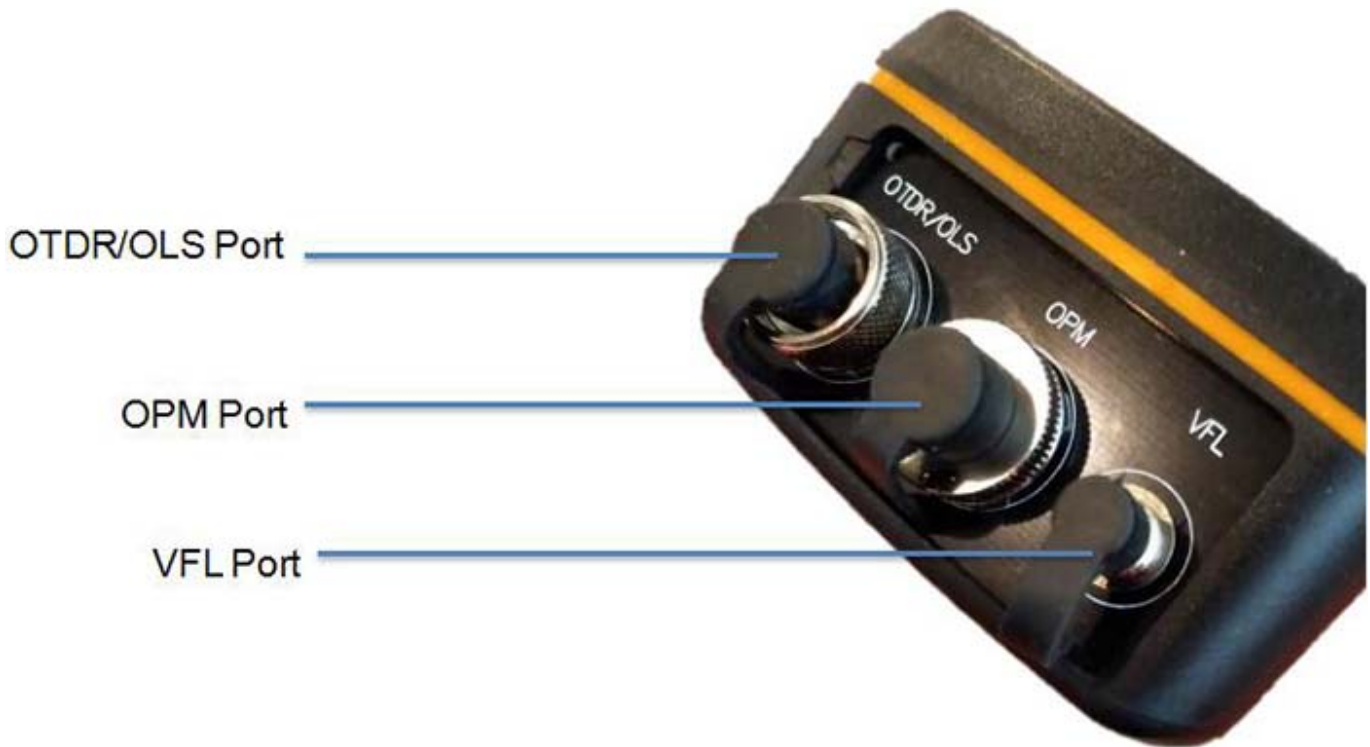
### **II. FEATURES**

- Lightweight, portable and cost-effective.
- One key operation and legible test data.
- Integrated with visual fault locator, optical power meter and laser source functions.
- Use the rubber key so it is dustproof, waterproof, shockproof ability; suitable for fieldwork.
- Use big capacity battery; long working time; suitable for long time fieldwork.
- Suitable for engineer construction and maintenance fault location of FTTX and access network.

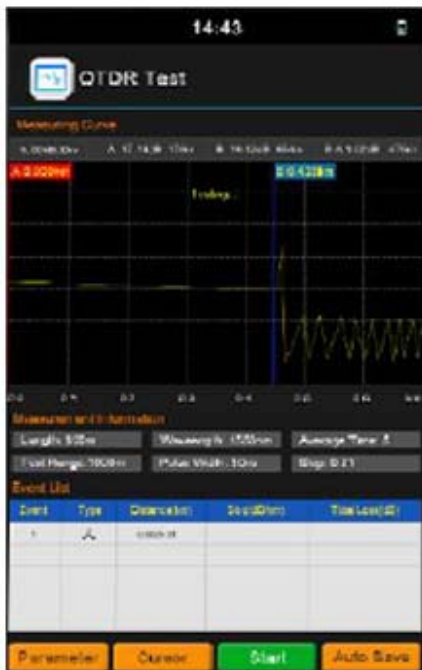
### III. MAIN MENU



## IV. PORTS



## V. TEST INTERFACE



**OTDR**



**Optical Power Meter**



**Visual Fault Locator**

## VI. SPECIFICATIONS

<b>OTDR Module (Basic)</b>	
Fiber Type	SM Fiber
Wavelength	1310nm/1550nm
Dynamic Range	22dB/20dB
Event Dead Zone	2m
Attenuation Dead Zone	12m
Measuring Range	0~60KM
UOM of Measurement	Meter, Feet, Mile
Accuracy Distance (Reflection Event)	$+(1m+2*10^{(-4)}*distance)$
Peak Value of Laser	$\geq 30mW$
Data Storage	200
Adapter	FC/PC, SC/PC, ST/PC
<b>VFL Module (Standard)</b>	
Wavelength	650nm
VFL Output Power	$\geq 10mw$
Mode	CW, 1Hz, 2Hz
Fiber Type	SM/MM
Adapter	2.5MM Universal
<b>Optical Power Meter Module (Standard)</b>	
Measurement Range	-70~+10dBm or -50~+26dBm
Wavelength Range	800nm~1650nm
Calibrated Wavelength	850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm
Detector	InGaAs
Accuracy	$< \pm 3\%$ (-10dBm, 22°C)
Resolution	Linearity: 0.1%, Non-Linearity: 0.01dBm
Adapter	FC/SC/ST
<b>Optical Laser Source Module (Standard)</b>	
Wavelength	1310nm/1550nm
Fiber Type	SM
Emitter	FP-LD
Adapter	FC/SC/ST
Output Power	$\geq -5dBm$
Output Stability	$\pm 0.04dBm@20^{\circ}C@15min$
Modulation	CW/270Hz/1KHz/2KHz
<b>General Parameters</b>	
Display	4 inch, 800*480, Color Touch LCD
Power Supply	Lithium battery: 7.4V, 4400mAh
Battery Working Time	$\geq 5000$ times of measurements
Working Temperature	-5°C ~ +50°C
Storage Temperature	-10°C ~ +60°C

Humidity	0~85% (non-condensation)
Dimension	175mm x80mm x 52mm
Weight	≤300g

