

TC-44 OPM+VFL+RJ45

18650mAh Lithium Battery

Three in One: Optical Power Meter + VFL + RJ45 Network Cable Test



I. Main Features

- High precise optical power meter function
- Visual fault locator function
- RJ45 network cable test function (optional)
- Self-calibration
- Set the auto off
- USB charging port
- ST, FC, SC Connector
- 18650mAh Li-ion battery
- High Accuracy, high sensitivity, high linearity
- Lower power consumption design, long standby time
- Wavelength memory function after turning off the tester
- Rubber out-shell increases the protective properties for fieldwork
- Accurately test whether a single network cable transmits signals normally

II. Layout



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|------------------|-------------------|----------------------------|
| 1. Dust Cover | 6. Reference Test | 11. VFL Port |
| 2. Power LED | 7. VFL/RJ45 Test | 12. OPM Port |
| 3. ON/OFF | 8. LCD | 13. USB Charging Port |
| 4. Wavelength | 9. VFL LED | 14. RJ45 Network Test Port |
| 5. Absolute Test | 10. RJ45 LED | |

III. Specifications

Optical Power Meter				
Sub Model	TC-44A	TC-44B		
Measurement Range (dBm)	-70~+10	-50~+26		
Detector Type	InGaAs			
Optical Adaptors	FC/SC/ST			
Calibrated Wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625			
Accuracy (dB)	±0.2			
Power Measurement Linearity (dB)	±0.1			
Display Resolution (dB)	±0.01			
Power Display Units	dBm, mW, uW			
Visual Fault Locator				
Output Power (mw)	1	10	20	30
Test Distance (km)	1~5km	8~10km	12~15km	15~25km
Adaptor	2.5mm universal			
Laser Safety Rating	Class II			
Wavelength (nm)	650 ± 20			
Output Modes	Continuous (CW), 2Hz pulsed			
Reverse Battery Protection	Yes			
RJ45 Network Cable Test (Optional)				
RJ45 network test port will be offered.				
General Parameters				
Power Supply	18650mAh Li-ion battery			
Auto Off	10 minutes			
Working Time	>200h (only OPM working) >50h (10mw VFL&OPM working at same time)			
Working Temperature	-10°C~+50°C			
Storage Temperature	-25°C~+70°C			
Dimension (mm)	160×75×10			
Weight (g)	250			

IV. Application

- Maintenance Telecom
- Maintenance CATV
- Test Lab of Fiber Optic
- Optical Fiber Sensors
- RJ45 Network Cable



V. Packaging



TC-44 OPM+VFL

RJ45 Network Test Port
(OPTIONAL)

SC/ST/FC



Charger



18650 Lithium Battery



User Manual



Carrying Bag



Carrying Bag

VI. ORDERING INFORMATION

Please kindly choose the proper sub-models that you need.

ORDERING CODE	CONFIGURATION	NOTE
TC-44A	Optical Power Meter Function -70~+10dBm	Please choose one between TC-44A and TC-44B. Standard/Basic
TC-44B	Optical Power Meter Function -50~+26dBm	
1	Visual Fault Locator Function - 1MW	Please choose one among 1/10/20/30MW. Standard/Basic
10	Visual Fault Locator Function - 10MW	
20	Visual Fault Locator Function - 20MW	
30	Visual Fault Locator Function - 30MW	
R	RJ45 Network Cable Test Function	Optional Function

For Example:

If you need -70~+10dBm power meter with 10mw VFL and also need optional RJ45 function, the ordering code will be **TC-44A-10-R**.

VI. Self-Calibration Method

1. Open the battery cover on the back the tester; switch the key to ON position; then you can enter into the calibration program.



2. Press "REF" button to add 0.05dB; press "dBm/W" button to minus 0.05dB; press "λ" to select wavelength.



3. Press ON/OFF button to save the calibrated value.



4. After finishing the calibration, switch the key to OFF position.

