



Radiasun
Inspire the World to Shine

AV6416 OTDR

AV6416 Palm-OTDR is new Optical Time Domain Reflect meter with integrated VFL(visual fault locator).

AV6416 Palm-OTDR feature handheld, compact, lightweight, long battery life and easy-to-use.

It supports auto test, manual averaging, manual real time test mode. Besides, the AV6416 Palm-OTDR can save and transfer the measurement data to PC.

The AV6416 Palm-OTDR has become the indispensable and ideal tools for fiber



Key features

- Test can be started by pressing a single key.
- 1.6m extra-short event dead zone
- Advanced anti-reflection Touchscreen color LCD, screen optimized for outdoor use.
- USB ports(host and client): transfer and print data trace.
- Visual fault locator to inspect fibers.
- Lithium rechargeable battery support over 10 hours.
- Memory for 500 OTDR traces and possible data transfer to a computer.
- Support auto test, manual averaging, manual real time test mode.
- Online help function.
- Windows CE operating system, multi-functional & Scalable



Radiasun
Inspire the World to Shine

AV6416 OTDR

Specifications

Item	Content
optical outport connector	FC-PC (standard)
screen	320×240 3.5-inch color LCD (Touchscreen)
range(km)	4、 8、 16、 32、 64、 128、 256 (SMF)
pulse width (ns)	10、 30、 80、 160、 320、 640、 1280、 2560、 10240 (SMF)
IOR	Adjust between 1.00000 to 2.00000
helix	Adjust between 0.80000 to 1.00000
resolution	Sampling resolution: 0.125m(max) Distance read-out resolution: 0.00001km Loss read-out resolution: 0.001dB
distance ccuracy2	± (1m+sample spacing+measured distance × 0.03%)
Loss accuracy	± 0.02 dB/km (SMF)
dynamic range3	28 / 24 / 26 (1310/1490/1550) dB
event dead zone 4	≤ 1.6m
sampling points	up to 65535
memory capacity	500 traces (for .ei)
port	USB , Mini-USB
power supply	AC/DC (AC100~240V, 50/60Hz), DC: 15~20V,2.5A, Battery life is over 10 hours (Low lightness, not sampling)
environmental	operation temperature: 0℃ to 50℃; Charging: 5℃ to 45℃ Storage temperature: -20℃ to 60℃ (not Exclude Battery Relative humidity: 5% to 95%RH(No Condensation)
dimensions	D×W×H: 215mm× 100mm× 60mm
weight	about 1kg

AV6416 OTDR

Handheld Optical multimeter is for the installation, operation and maintenance of a fiber optic network designed accurate, durable and portable instrumentation. A compact shape, automatic shutdown feature, wide range of optical power measurement, accurate measurement accuracy, and user self-calibration function and general interface design, while the linear index (mW) and nonlinear index (dBm) display on the same screen.

Stable optical handheld multimeter can be customized to provide 1 to 4 wavelength stability of the output, not only can provide 650nm visible red light, single-mode fiber can be measured to provide dual-wavelength 1310nm and 1550nm laser output, or provide 850/1300 / 1310/1550nm four wavelength laser output, fiber-optic project is the ideal test instrument.

Features

Self calibration by user himself

Rechargeable lithium battery used to reduce user costs

Linear (mW) and nonlinear index (dBm) display on the same screen

Can set the automatic shut down function

High stability multi-wavelength single-(multi) mode laser output, CW mode or modulated mode

Color LCD display

Data can be uploaded to PC

Specifications

Power meter parts

Measurement range	-70~+3 or -50~+26
Type of probe	InGaAs
Range of wave length	800~1700
Uncertainty	±5%
Standard wave length (nm)	850、980、1300、1310、1490、1550
Resolution	Linear indication: 0.1% Logarithmic indication: 0.01dBm
Connector	General setupuration: FC/PC SC/PC
Other setupuration	LC/FC/SC/ST Many common interface



AV6416 OTDR

Light source parts

Model	General setups	3 in 1 setups	Other
Working wavelength (nm)	1310/1550	1310/1490 650 red light source	D: 850/1310/1550 E: 1310/1490/1550 F: 1310/1550/1625
Light-emitting device	FP-LD		
Optical output power (dBm)	-7/-7	-7/-7 Red light source: 1mW	0DB-7DB
Modulation	CW/270/1K/2K		
Type of optical fiber	SM, MM		
Connector	FC/PC		
Multi-mode output power	≥-20 dBm		

Other

Resolution	Linear indication: 0.1% Logarithmic indication: 0.01dBm
Working temperature (°C)	-16~+60
Storage temperature (°C)	-25~+70
Auto power-off time (min)	10
Continuous working hours (h)	more than 15 hours
Display	2.4 TFT color LED with backlight
Dimensions (mm)	190×100×48
Power supply	Rechargeable lithium battery
Weight (g)	280

Maintenance

Precautions

1. Don't watch the output port with eyes while it is running, the laser will hurt your eyes
2. If you are not going to use the tester for long time, cover the dust-proof cap immediately to keep the end clean, don't expose it in air for long time, otherwise dust may gather polluting the output end.



AV6416 OTDR

3. After the stabilized light source works for a time, dirt or dust may gather at output end reducing output optical power, if so, user can gently wipe the surface using cotton swab dipped with alcohol, then remove the contaminants with dry cotton swab. If end still look dirty after doing so, please contact us

4. For any other fault, please immediately contact our technician, don't open the cabinet of the device to repair it by yourself, otherwise more serious problems may occur. We will not repair any product that have been disassembled by user himself

Troubleshooting

SN	Diagnosis	Solution
1	Output light is found unsteady	Please recharge the battery
2	The terminal of adapter is dirty	Clean it gently with alcohol
3	The output optical power is unsteady after startup	Pre-warm the device for 15 minutes before using it