AV6416 Palm OTDR

Main Features:

- 1.6 m extra-short event dead zone
- 0.25 m high resolution，65k sampling points
- Auto measuring with high speed， one-button operation
- Advanced TFT transparent color LCD, visible clearly in outdoor
- Visible fault locating (VFL)
- Large internal memory for data storage
- High speed USB port for connectivity and data storage
- Over 10 hours of battery operation life
- Write/read file in Bell-core GR196 file format
- Attached with trace analyzing software, testing report can be generated conveniently
- Unique function of updating system on-line, returning to factory is unnecessary

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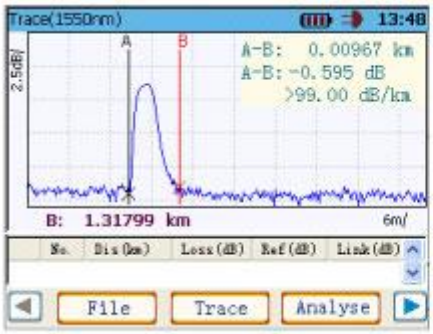
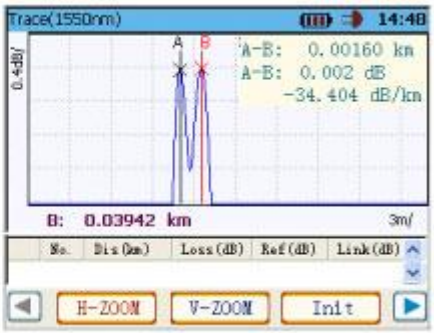
Extra-short event dead zone

AV6416 palm OTDR has extra-short event dead zone, which is suitable for testing short optical fiber and pigtail optical fiber.





High-speed auto measurement

The function of auto measurement of AV6416 palm OTDR makes it unnecessary to operator to know about the further details of operating. Simply connect the fiber, press [Start],then the result is displayed in a few seconds, you can view the trace and event table.

High-speed auto analysis

AV6416 can search and locate the events and faults in trace rapidly and precisely, and then lists all events in even table, so it ś very useful to maintainers to improving efficiency and it ś unnecessary to know about the relative background knowledge.

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Powerful file management

AV6416 offers powerful function of file management. Besides saving,browsing or deleting files to or from USB stick and built-in memory, it can be connected to laser or inkjet printer based on PCL language, and the testing report can be printed rapidly and easily. In addition, AV6416 can communicate with PC using ActiveSync via USB cable, through which the files can be translated rapidly.

File management and transmission

Convenient VFL

The built-in 650nm visual fault location is ideal for easily identifying bad splice, bad connector, break or macro bend.

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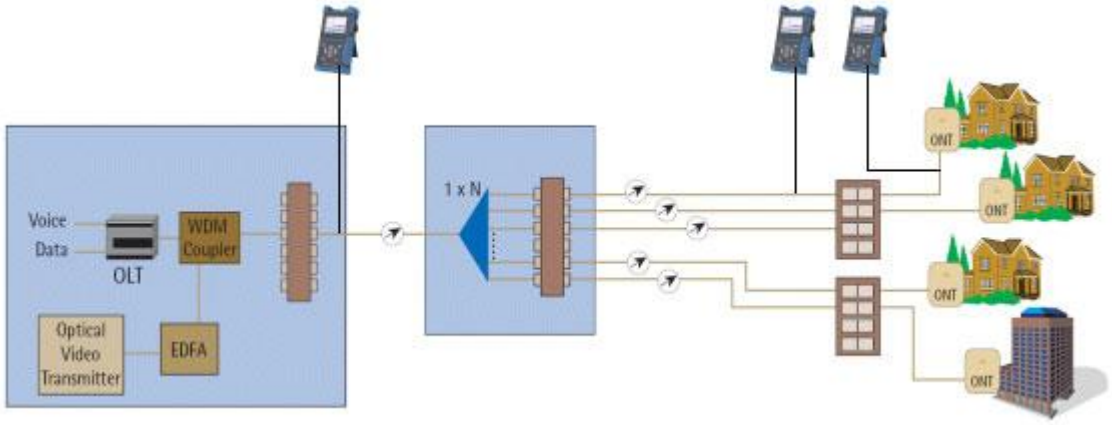
Communication light check

When measuring a fiber in service, the measuring result by an OTDR is not precise, and there is a potential risk of permanent damage to the internal photoelectric of OTDR receiver. To prevent these problems, the AV6418 OTDR can detect automatically and silently if communication light is present after the fiber under test is connected, once the light is verified present, simultaneously, a warning message will be displayed and internal OTDR protection will be active instantly.

Typical Application:



AV6416 Palm OTDR is mainly used to measure FTTx network, it provides a low cost solution for users. AV6416 offers three measuring modes: manual mode (including real time mode and average mode), auto mode and dead zone mode.

Manual measurement mode: manual mode is suitable for skilled operator who is familiar with the instrument. In this measurement mode, to get more accurate results, real-time mode or average mode can be selected if necessary.

In real-time mode, the dynamic changes of fiber chain can be detected timely, it is very useful when you need to observe the effect and process of fiber being spliced or connected.

In average measurement mode, the noise in trace can be suppressed, and the SNR(signal noise ratio) is improved, therefore,the result is more accurate. In fact, the more average times is executed, the more noise in trace is suppressed, and the longer

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time is spent for signal processing. In practice, the average times should be set properly according to necessity.

Auto measurement mode: the optimized measurement conditions are set automatically, it ś unnecessary to operator to know about the complicated background knowledge and the further details of operating. In this mode, the more accurate results can be gained when proper average times are set, but it will increase the time of signal processing.

Dead zone mode: this mode is suitable for testing optical fiber with short distance and the optimized settings of distance range, pulse width and attenuator can be executed automatically. To get the best result, the terminal return loss should be guaranteed less than -40dB.

Technical Specifications:

Main Specifications			
Pulse Width	10 ns to 10240 ns		
Central Wavelength	1310 nm±15 nm 1550 nm±15 nm		
Fiber Type	Single-mode		
Dynamic Range[1]	1310 nm/1550 nm (±15 nm)	1310 nm/1550 nm/1490 nm (±15 nm)	1310/1550 nm/1625 nm ±10 nm (build-in filter)
	28/26 dB	28 / 26 / 24 dB	28 / 26 / 25 dB
Event Dead Zone[2]	≤1.6 m		
Distance Range	4 km-256 km		
Sampling Resolution	0.25 m-16 m		
Sampling Points	65 k		
Distance Accuracy	±(1 m+sample space+measurement distance×0.003%)		
Display	Color LCD(touch screen)		
Interface	USB Min-USB		
VFL	650 nm±10 nm 2 mW CW/1 Hz		
Optical Connector	FC/UPC (universal connector, option)		

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Power Supply	DC:15 V-20 V(3 A),(AC adapter 100～240 V, 50/60 Hz,1.5 A), built-in Lithium battery≥10 hours[3]
Dimensions	210 mm×100 mm×60 mm
Weight	1 kg Approx.

Note1：pulse width 10240ns, average times≥300，SNR=1，23℃±2℃;
Note2：Pulse width:10 ns, terminal reflection loss:≥40 dB, typical;
Note3：Low brightmess,exclude measuring.

Ordering Information:

Main Unit: AV6416 Palm-OTDR
Standard Configuration:
1. Power cable
2. AC\DC power adapter
3. User manual
4. CD (including simulating analysis software)
5. Special engineering plastic box
6. Carrying belt

Options:
1. U disk
2. Printer
3. USB data cable
4. nylon soft bag
5. Spare battery bag
6. FC/SC，FC/ST adapter

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