

▶ 3E Innovation

- Environment friendly design as a green PC peripheral
- Economy for low cost of ownership
- Efficiency in data distribution, analysis and documentation

▶ Applications

- Cable acceptance test
- PON application
- Remote fiber monitoring
- Field installation and maintenance

▶ Features

- Plug-and-play unit using USB connection to PC
- Integrated OTDR system, Ideal for Monitoring system
- Full function OTDR application software compatible to Windows 98 , 2000 or above
- Mapping function with actual position display



USB OTDR is an innovative OTDR solution on PCs, creating two times higher performance to cost ratio

The Radaiantech UFO-400 series is a compact, cost-effective, plug-and-play Optical Time-domain Reflectometer(OTDR) unit, designed for full-range fiber fault detection. It is ideal for optical fiber installation, maintenance, field construction, and other on-site fault-location analysis. As a USB peripheral, UFO-400 is the best choice of OTDR to integrate with remote optical monitoring systems.

The OTDR unit is designed as a green PC peripheral compatible with Windows 98, 2000 or above. The application program (AP) sends OTDR command from the computer to the unit and gets data back through USB connection. The USB OTDR gets power from the USB port and an internal rechargeable Li-ion battery.

The OTDR unit injects the laser pulse into the fiber under test and picks up scattered and reflected optical signals by an avalanche photodiode (APD). The unit also controls all related timing and data acquisition processes.

The AP consists of three windows. The Event Handling window (default) allows for parameter setting, measurement data storage and event analysis processing. The Event Mapping window provides mapping of a measured trace to a predefined landmark table, and subsequently the actual fault location can be shown. The Meter window provides laser light source and light detection functions.

General Specifications

Dimensions (L x W x H)	220x130x55 mm without bumper
Weight	950 grams
Power consumption	Operating: 3.6 Watt Idle: 2.2 Watt
Power Supply	Lithium Ion Battery & AC /DC Adapter (100 ~ 240 V; 50 ~ 60 Hz)

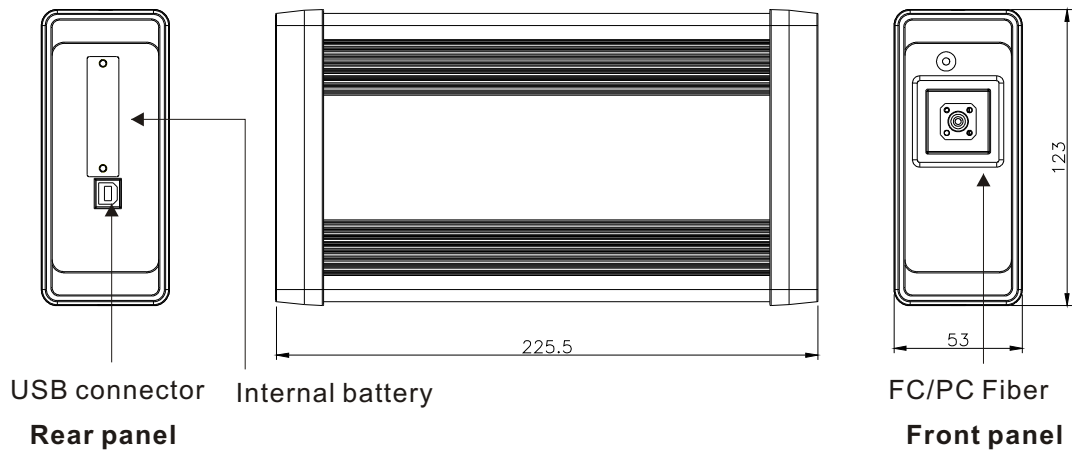
Technical Specifications

MODEL		UFO-430	UFO-420	UFO-421
Wavelength		1310/1550/1625 ± 20 nm	1310/1550 ± 20 nm	1550/1625 ± 20 nm
Dynamic Range	(dB) Effective	39/37/35	39/37	37/35
	SNR=1	42/40/38 dB	42/40 dB	40/38 dB
MODEL		UFO-410	UFO-411	UFO-412
Wavelength		1310 ± 20 nm	1550 ± 20 nm	1625 ± 20 nm
Dynamic Range	(dB) Effective	39	35	35
	SNR=1	42 dB	40 dB	38 dB
Fiber		9/125 um single mode fiber		
Optical connector		FC/PC		
Pulse width		10 ns, 30 ns, 100 ns, 300 ns, 1 μs, 3 μs, 10 μs, 20 μs, Auto		
Event dead zone		3 m		
Attenuation dead zone		10 m		
Sampling resolution		0.25, 0.5, 1, 2 m		
Distance accuracy		± 2 m + 3 x 10 ⁻⁵ x distance + marker resolution (Fiber index error not included)		
Max. Sampling Points		128 k		
Loss Accuracy		± 0.05 dB/dB, or 0.1 dB (whichever greater)		
Return Loss Accuracy		± 4 dB		
Max. Display Range		240 km (150 mi)		

Operation Power Consumption (Internal Battery + USB Interface): 3.5 ~4 W

USB interface: 2.5 W (MAX.) for Analog PCB or for charging Li-Ion battery

- USB interface: 2.5 W (MAX.) for Analog PCB or for charging internal Li-Ion battery
- Internal Li-Ion battery (NP-60) 1~1.5 W for Digital PCB
- AC/DC adaptor can supply both Analog and Digital PCB and internal battery recharging.



FiberPal™ USB OTDR

Eye Safety

FiberPal™ USB OTDR unit is a Class 1 laser product that conforms with the USA Federal regulations 21 CFR 1040.10 and 1040.11. To meet laser safety requirements the OTDR shall be operated within the absolute maximum ratings.

Attention! Do not look directly into the fiber port on FiberPal™ USB OTDR unit.

Caution

All adjustments have been made at the factory prior to the shipment of the devices. No maintenance or alteration to the device is required. Tampering with or modifying the performance of the device will result in voided product warranty.

WARRANTY/REMEDY

Radiantech Inc. warrants goods of its manufacture as being free of defective material and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Radiantech during that period of coverage, Radiantech will repair or replace without charge those items if the device is found defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.**

While we provide application assistance, personally, through our literature, and through the Radiantech website, it is up to the customer to determine the suitability of the product in the application.

Specifications may change at any time without notice. The information we supply is believed to be accurate as of this printing. However, we assume no responsibility for its use.

SALES AND SERVICE

Radiantech Inc. serves its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office or call:

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