



BRITICOM

British Pride, Global Power



Fibre Optic Cleaning Tools & Test Equipment

Microscope Handheld For Fibre Inspection



Product Description

The Briticom® OTDR is an optoelectronic instrument used to characterise an optical fibre. This OTDR is specially designed for tough outdoor jobs, so is perfect for field testing – it is lightweight, easy to operate, has an IP65 protection level, low-reflection LCD and the battery lasts up to 12 hours. The optional PCB board with water-proof coating can increase the protection performance.

Features & Benefits

- Integrated design, smart and rugged
- IP65 Rating
- 7-Inch LCD screen – anti-reflection
- PON online test module (1625nm) (optional)
- MMF test module (850/1300nm) (optional)
- Supports multi-language display and input

Applications

- Fibre optic inspection and testing



Technical Specifications

Dimension	253x168x73.6mm 1.5kg (battery included)
Display	7-inch TFT-LCD with LED backlight (touch screen function is optional)
Interface	1xRJ45, 3xUSB port (USB2.0, Type A USBx2, Type B USBx1)
Power Supply	10v(dc), 100V(ac) to 240V(ac), 50~60hz
Battery	7.4V(dc)/4.4Ah lithium battery (with air traffic certification) Operating Time: Up to 12 hours, Telecordia GR-196-CORE Charging time: <4 hours (power off)
Power Saving	Backlight off: Disable/1 to 99minutes Auto shutdown: Disable/1 to 99minutes
Data Storage	Internal memory: 4GB (about 40,000 groups of curves)
Language	User selectable (English, Simplified Chinese, traditional Chinese, French, Korean, Russian, Spanish and Portuguese – contact us for availability of others)
Environmental Conditions	Operating temperature and humidity: -10°C ~ +50°C, ≤95% (non-condensation) Storage Temperature and humidity: -20°C ~ +75°C, ≤95% (non-condensation) Waterproof/Dustproof: IP65(IEC 60529)
Accessories	Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord, User guide, CD disk, carrying case Optional: SC/ST/LC adapter, Bare fibre adapter

To Order

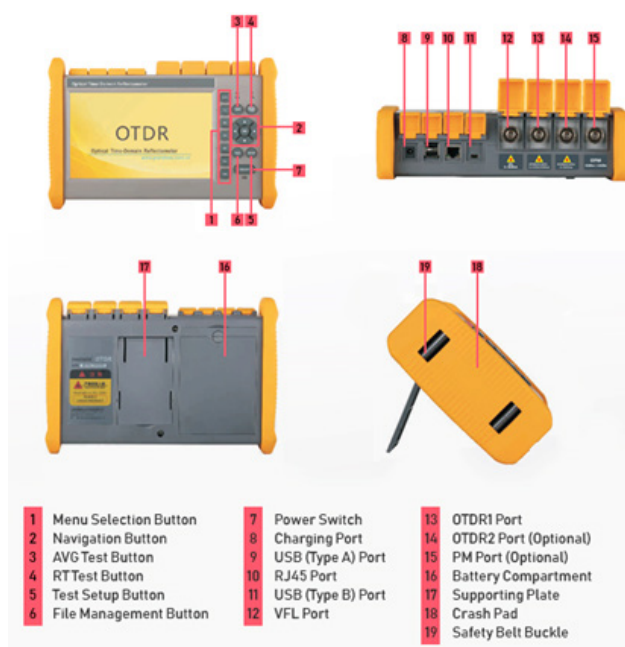
To place an order, use the contact details below.



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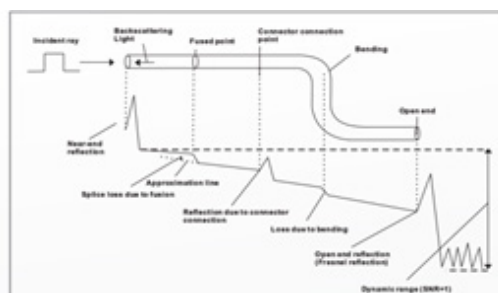
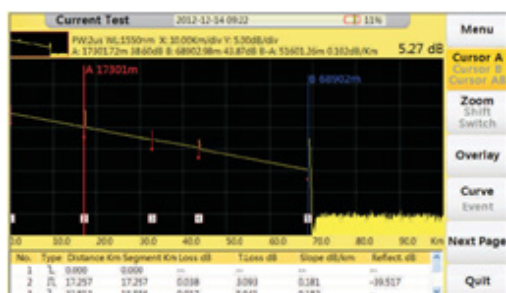
Microscope Handheld For Fibre Inspection

Multi-Mode OTDR	Besides standard single-mode (1310/1550nm), The Briticom OTDR supports multi-mode (850/1300nm) test mode for option to analyse the multi-mode fibre network.
VFL (Visual Fault Locator)	The VFL, available as standard module in The Briticom OTDR, offers built in 650nm visual faulty location on a FC/UPC connector
PON Online Test	The Briticom OTDR uses 1625nm wavelength to scan and analyse the access point and proceed online testing with optician filter and will not disturb the service.
PM (power meter)	The Briticom OTDR comes with optional built-in power metre that lets technicians easily verify the presence of a signal.
LS (laser source)	The Briticom OTDR comes with optional built-in laser source through OTDR1 Port that let technicians easily verify the total loss of the local network with a power meter.
FM (fibre microscope)	The optional fibre inspection probe facilitates the inspection of a component before connection. The Briticom OTDR offers the capability through a USB port connection, which allows quick and easy inspection of connector end faces for contamination and enables it to capture and storage of the image.



Intelligent Scaling

Simplified display style and structured menus help to give important information at a glance.



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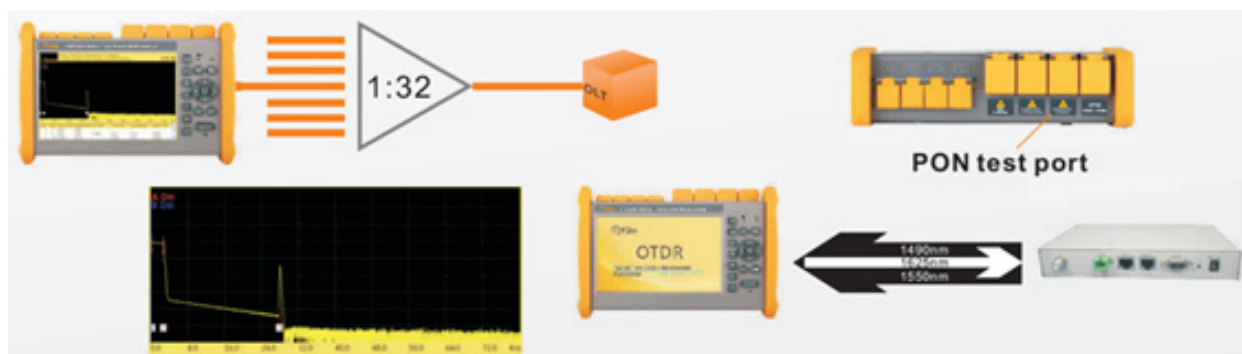


FTTH Test within PON Networks

The Briticom OTDR models are dedicated to the testing of PON network maintenance and troubleshooting without service disruption.

Last Mile Master

The Briticom OTDR can easily test through 1x32 PLC splitter in PON test.



Fibre Microscope

The Briticom OTDR has an optional microscope, which offers 400x amplification and a variety of accessories to ensure perfect terminal condition before test. Taking time to properly inspect connector end faces can prevent slew of problems down the line, saving you time, money and headaches.



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Result Transfer

The Briticom OTDR can be used to check test results on PC or PDA through USB; 4GB large internal memory space can store more than 40,000 groups of results. With the Briticom™ OTDR you can:

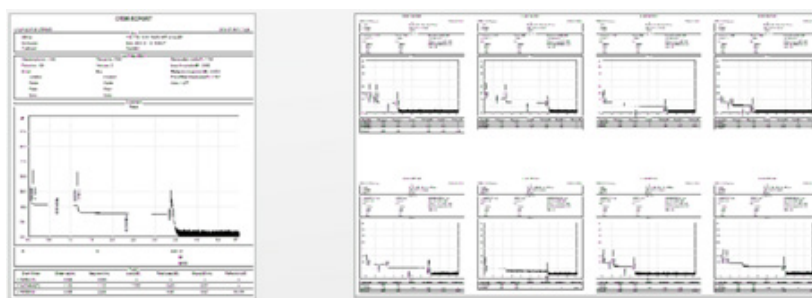
- Download reference traces and settings from database
- Send measurement result via e-mail
- Print result files
- Ask for remote help



High Compatibility

The Briticom OTDR supports multiple Windows operating systems and software:

- Windows Vista (32/64-bit system)
- Windows 7 (32/64-bit system)
- Windows 8 (32/64-bit system)
- Windows 10 (32/64-bit system)
- Microsoft Office (Excel)



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Technical Specifications

Testing Wavelength (MM $\pm$ 20nm, SM $\pm$ 10nm)	Dynamic Range (dB)	Event/Attenuation Dead-Zone (m)
850/1300	19/21	1.5/8
850/1300 1310/1550	19/21 35/33	1.5/8 1.5/8
850/1300 1310/1550	19/21 40/38	1.5/8 1.75/11
1310/1550	26/24	1.5/8
1310/1550	32/30	1.5/8
1310/1550	35/33	1.5/8
1310/1550	40/38	1.75/11
1310/1550	43/41	2/14
1310/1550/1625	40/38/38	1.75/11
1310/1550/1625	43/41/41	2/14
1310/1550/1650	35/33/31	1.5/8
1310/1490/1550	35/33/33	1.5/8

PM Module (Power Meter, Optional Function)

Wavelength Range	800 ~ 1700nm
Calibrated Wavelength($\pm$ 10nm)	850/1300/1310/1490/1550/1625/1650nm
Test Range	Type A: -65~+5dBm (standard); Type B: -40~+23dBm (optional)
Resolution	0.01dB
Accuracy	$\pm$ 0.35dB $\pm$ 1nW
Modulation identification	270/1k/2k Hz, $P_{input} \geq -40$ dBm

FM Module (Fibre Microscope, Optional Function)

Magnification	400X
Resolution	1.0 μ m
View of Field	0.40 x 0.31 mm
Storage/working Condition	-18°C ~ 35°C
Dimension	235x95x30mm
Sensor	1/3 inch 2 million of pixel
Weight	150g
USB	1.1/2.0
Adapters (Contact us for more options)	Standard: SC-PC-F (For SC/PC adapter) FC-PC-F (For FC/PC adapter) LC-PC-F (For LC/PC adapter) 2.5PC-M (For 2.5mm connector, SC/PC, FC/PC, ST/PC)

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VFL Module (Visual Fault Locator, Standard Function)

Wavelength (±20nm)	650nm
Power	10mW, CLASSIII B
Range	12km
Connector	FC/UPC
Launching Mode	CW/2Hz

LS Module (Laser Source, Optional Function)

Working wavelength (±10nm)	1310/1550/1625nm
Output power	Adjustable -25 ~ 0dBm
Accuracy	± 0.5dB
Connector	FC/UPC

Test Parameter

Pulse Width	Single mode: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs, 20µs - Multi-mode: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs
Distance Range	Single mode: 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km - Multi-mode: 500m, 2km, 5km, 10km, 20km, 40km
Sampling Resolution	Minimum 25cm
Sampling Point	Maximum 128,000 points
Linearity	≤ 0.05dB/dB
Scale Indication	X axis: 4m~70m/div, Y axis: Minimum 0.09dB/div
Distance Resolution	0.01m
Distance Accuracy	± (1m+measuring distance x3x10 ⁻⁵ + sampling resolution) (excluding IOR uncertainty)
Reflectance Accuracy	Single-Mode: ±2dB, multi-mode: ±4dB
IOR Setting	1.4000~1.7000, 0.0001 step
Units	Km, miles, feet
OTDR Trace Format	Telcordia universal, SOR, Issue 2 (SR-4731) OTDR: User selectable automatic or manual set-up
Testing Modes	Visual fault locator: visible red light for fibre identification and troubleshooting Light Source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output) Field microscope probe
Fibre Event Analysis	Auto or manual operation, displayed in table format User defined PASS/FAIL thresholds: Reflective and non-reflective events 0.01 to 1.99dB (0.01dB steps) Reflective: 0.01 to 32dB (0.01dB steps) Fibre end/break: 3 to 20dB (1dB steps)
Other Functions	Real time sweep: 1Hz Averaging Modes: Timed (1 to 3600 sec.) Live Fibre detect: Verifies presence communication light in optical fibre Trace overlay and comparison

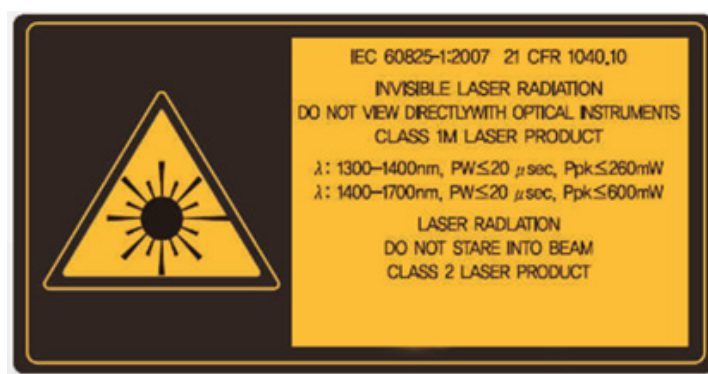
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CAUTION

VIEWING THE LASER OUTPUT WITH CERTAIN OPTICAL INSTRUMENTS (FOR EXAMPLE: MONOCLES, MAGNIFIERS AND MICROSCOPES) WITHIN A DISTANCE OF 100 MM MAY POSE HAZARD TO YOUR VISION.



Ordering Information

Use combinations of **bold** letters and numbers to create part numbers for ordering.

Branding		Fibre Testing Type	
BTC	Briticom Branded	SM MM MS	Singlemode Multimode Singlemode & Multi-mode
BTC	OTDR	SM	40/38DB
Optical Time-Domain Reflectometer	OTDR	850/1300: 19/21 850/1300: 19/21 1310/1550: 35/33 850/1300: 19/21 1310/1550: 40/38 1310/1550: 26/24 1310/1550: 32/30 1310/1550: 35/33 1310/1550: 40/38 1310/1550: 43/41 1310/1550/1625: 40/38/38 1310/1550/1625: 43/41/41 1310/1550/1650: 35/33/31 1310/1490/1550: 35/33/33	
			19/21DB 21/35DB 21/40DB 26/24DB 32/30DB 35/33DB 40/38DB 43/41DB 38/38DB 41/41DB 35/31DB 35/33DB
Product		Testing Wavelength dB (SM MM)	

Example Part Number	
Description	Part Number
Briticom OTDR 35/33 dB 8m Dead Zone, 240km Singlemode 1310/1550nm	BTCOTDRSM40/38DB

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