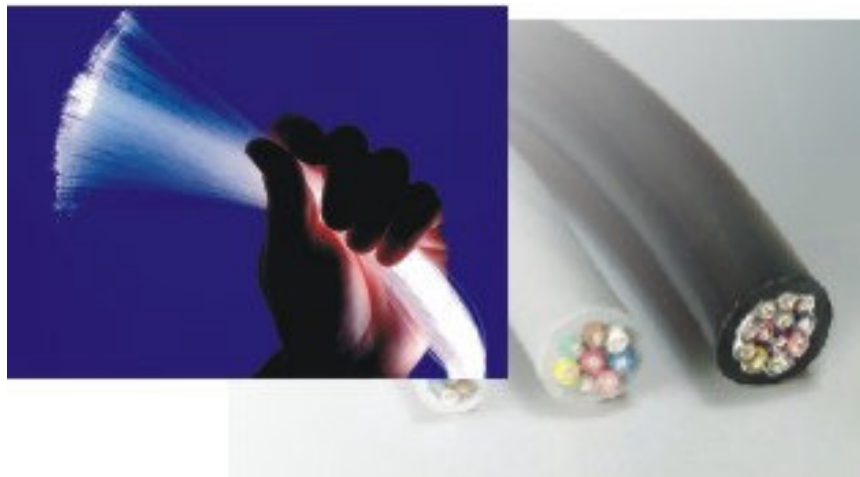
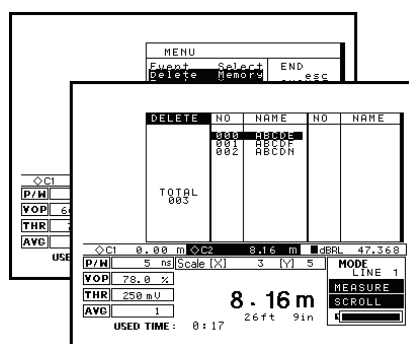
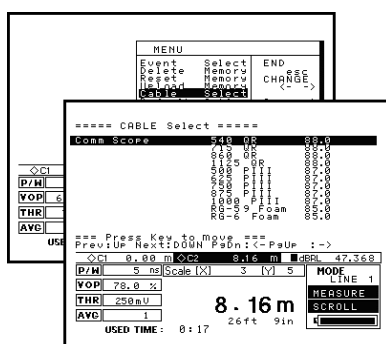
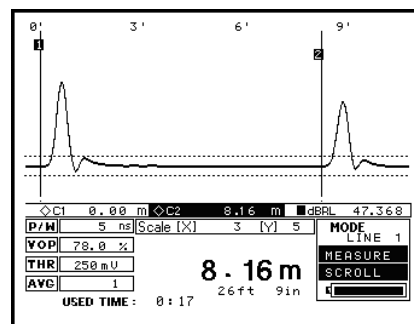


# BS37

## 2in1 Optical TDR/ Metallic TDR (Time Domain Reflectometry) Cable Tester



BS37 is a compact and lightweight portable Optical Time Domain Reflectometer (OTDR) with Metallic Time Domain Reflectometer (MTDR) integrated in one unit to be used for either optic fiber or metallic cable network. The OTDR mode can be used for analyzing the physical condition of optical fibers in the installation and maintenance of optical communication networks. It provides users with the complete information on the attenuation and reflective or non-reflective loss of optical fibers so as to locate faults, connectors and splices along the fibers.



The MTDR mode is suitable for installation, maintenance and faultfinding (complete open & short, partial open & short, loading coils, loose connection,

broken lines etc.) of metallic cables whatever consist of at least two conductors. Its application covers coaxial cables (for CATV and CCTV) and UTP/STP cables (for LAN and Telephone) together with power cables.

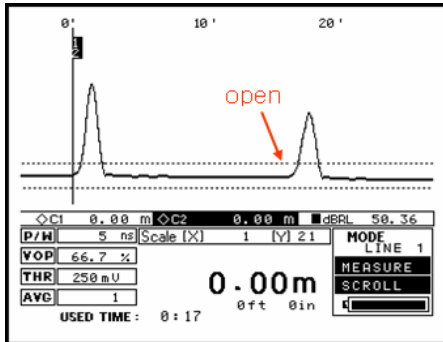
BS37 will provide network installers and maintenance personnel with a complete solution for testing, troubleshooting, certifying and documenting the mixed network of optical and metallic cables (especially LAN, CATV, HFC and FTTx networks) in any industrial sites.

BS37 can be applicable for both optic and metallic cable by interchanging of OTDR mode or MTDR mode

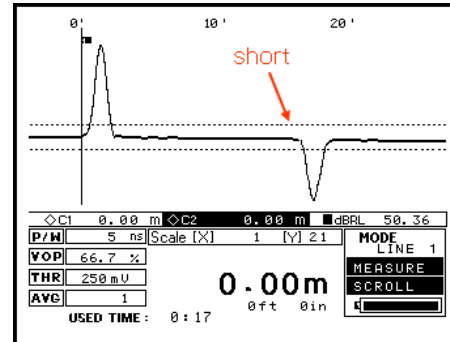
<b>OTDR mode Optical cables :</b>	<b>MTDR mode Metallic cables</b>
<p><b>FTTx and HFC</b></p> <ul style="list-style-type: none"> <li>• Fiber-to-the-Curb (FTTC)</li> <li>• Fiber-to-the-Home (FTTH)</li> <li>• Fiber-to-the-Premises (FTTP)</li> <li>• Fiber-to-the-Office (FTTO)</li> </ul>	<ul style="list-style-type: none"> <li>• Coaxial cables network maintenance</li> <li>• CATV and CCTV network maintenance</li> <li>• Electric power cable maintenance</li> <li>• Telephony network maintenance</li> <li>• Security cable maintenance</li> <li>• LAN network maintenance</li> </ul>

## Sample Waveforms of Various Events in Cables

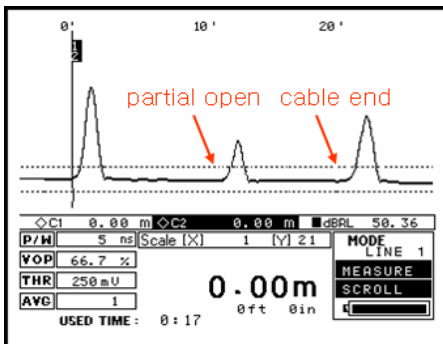
1. Complete Open



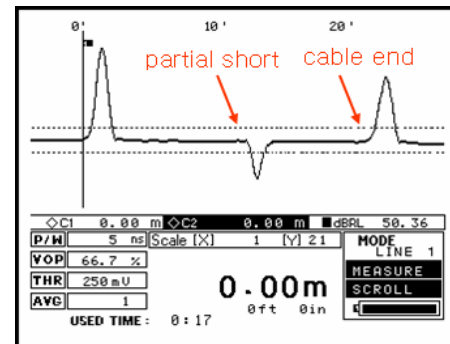
2. Complete Short



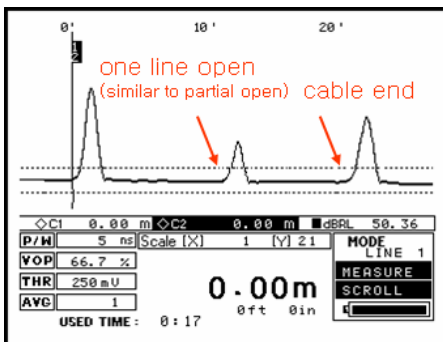
3. Partial Open



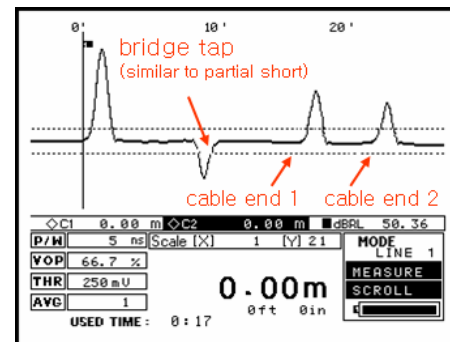
4. Partial Short



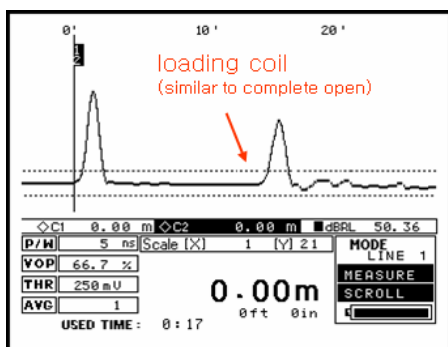
5. One Line Open



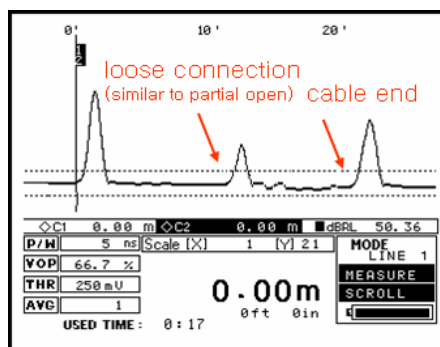
6. Bridge Tap



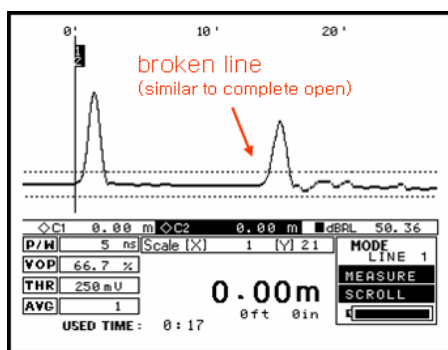
7. Loading Coil



8. Loose Connection



9. Broken Line





## **Features:**

- mini OTDR + MTDR
- 6.4" TFT color LCD display
- Optical Wavelength: 1310/1550nm
- Suitable for use on Optical fiber, Coaxial, Telephone, CATV, CCTV, Power cable & UTP cable etc.
- Max. range: 5m~100,000m (10.4ft~65,000ft) for Metallic Coaxial
- Max. range: 3.2m~20,000m (10.4ft~65,000ft) for Metallic Coaxial
- Two active cursors with individual control
- Changeable zero point
- Ease of use: single key functions
- Non-volatile memory for storing data
- Built-in library for fast & easy selection of VOP
- Usable battery time display
- Waveform zoom capabilities
- Waveform trace and diagnosis
- Automatic event search
- Low power consumption
- Windows Software
- Rugged and waterproof packing
- Optional spare battery double operating time

## **Accessories**

- TBA

## **Optional Accessories**

- TBA

## **Standards**

CE

## Specifications

		<b>Nou-3x</b>
<b>Optical specifications (OTDR mode)</b>	Dynamic range	34/32dB
	Measurement range	100km
	Minimum display resolution	10cm
	Distance accuracy	+/-10cm +/-0.1% of reading < 100m +/-0.1% of reading > 100m
	Attenuation detect accuracy	+/- 0.1dB
	Pulse width	10ns, 40ns, 100ns, 200ns, 500ns, 1us, 2us, 5us, 10us
	Average time	15s, 30s, 1min, 2min, 3min real time
	Attenuation dead zone	18/18m
	Event dead zone	5m
	IOR	1.0000 ~ 1.9999 (in 0.0001 step)
Wavelength	1310/1550nm	
Fiber type	Single-mode	
Connector type	FC/PC	
Maximum data storage capacity	50 waveforms	
<b>Metallic specifications (MTDR mode)</b>	Measurement range*1	3.2m ~ 20,000m (10.4ft ~ 65,000ft) for Coax.
	Minimum display resolution	10cm (variable up to 50m)
	Distance accuracy*2	+/-0.1% of reading /-0.1m for Coax.
	Pulse width	5ns, 15ns, 45ns, 100ns, 200ns, 500ns, 1us, 2us, 5us, 10us
	Input bandwidth	300MHz
	Effective sampling rate	1GS/s
	VOP (PVF)	Variable from 30.0 to 99.9% (in 0.1% step) V : 90 to 300m/μs V/2 : 45 to 150m/μs
	Output impedance	Automatic output impedance control of 25, 50, 75, 100, 125, 150Ω
	Gain	0 to 66dB or better, maximum sensitivity 1mV (full scale)
	Test mode	L1, L1&M, L1-M, M
	Connector type	BNC female
	Maximum data storage capacity	100 waveforms
<b>General specifications</b>	Display type	6.4" Color TFT LCD
	Internal memory	4MB
	Communication port	USB
	Power supply	7.6V Li-ion chargeable battery pack 8,800mAh / AC adapter
	Battery life	5 hours (extendable up to 10 hours by using optional spare battery)
	Recharging time	6 hours
	Adaptor input	Voltage : AC 110 ~ 240V (auto adjusting) Frequency : 50/60Hz (auto adjusting)
	Adaptor output	Voltage : DC 15V (+5%) Current : Max.1A
	Operating temperature	-10C(+14F)~+50C(122F)
	Storage temperature	-20C(-4F)~+70C(158F)
	Relative humidity	< 95%
Weight	2.7kg(5.9lbs)	
Dimensions	267mm(10.5") x 247mm(9.7") x 127mm(5")	

Due to our policy of continual product development we reserve the right to amend the specifications of all mentioned products without notice.



\*1 Maximum testable cable length will vary with pulse width and cable type

\*2 Accuracy will vary with VOP of cable being tested

\*3 Except where otherwise stated, this specification applies at an ambient temperature of 20°C(68°F).

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