RADIODETECTION®

Lexxi™ T1660
Time Domain Reflectometer

High-resolution hand-held cable fault locator / tester for first responders

SPX

Radiodetection's Lexxi **T1660** Time Domain Reflectometer for **Metallic Cables**

Innovative, economic cable fault locator

Radiodetection's Lexxi T1660 provides an unrivalled combination of performance, usability and economy.

Radiodetection has created Lexxi T1660 by taking the easy-to-hold ergonomics familiar to users of the Riser Bond Model 1550 and Bicotest Lexxi T810 and installing a unique TDR engine and a 3.5" color back-lit display.

The result is a cable fault locator whose 1% distance accuracy and resolution gives technicians the tool they need to find faults quickly and accurately. Added to this is the Lexxi T1660's great value that allows more technicians to be equipped.
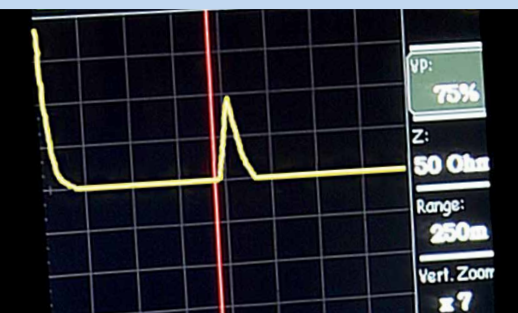
The Lexxi T1660 is suitable for analysing all metallic cables consisting of at least two metallic elements, one of which can be the armouring or the screen. Cable types include CATV, twisted pair telecom, Ethernet and even LV power cables.

The Lexxi T1660 is shipped with a set of 100Ω crocodile clip Twisted Pair connection cables as standard. A range of optional plug-in modules make it adaptable to the requirements of a wide variety of industries and applications, with the Blocking Filter module allowing safe analysis of live 3-phase mains cables.

Radiodetection's Lexxi T1660 offers innovation and economy, enabling a step-change in productivity.

Features

- Large, color display
- 1% fault location accuracy
- 0.5m dead zone
- 6km, 19000' maximum range
- 7m, 23' minimum display range
- 11 range settings
- Operates from Alkaline or NiMH rechargeable batteries
- 12 hours typical battery life time (alkaline)
- User selectable Power Down time
- Selectable cable impedance
- VoP adjustable from 1% to 99%
- 100Ω Twisted Pair Alligator Clip cables included as standard
- Optional modules, including Category IV mains Blocking Filter, for twisted pair, coaxial and power cable use make the Lexxi T1660 suitable for multiple industries and applications

Large, easy to read color display simplifies cable fault locating in most conditions.

Modules for twisted pair, coaxial and power cables allow the Lexxi T1660 to find cable faults in wide ranging applications, even on live, 3-phase mains cables.

Lexxi T1660 is simple to use, with just 6 control buttons and an easy to follow menu to set your preferences.
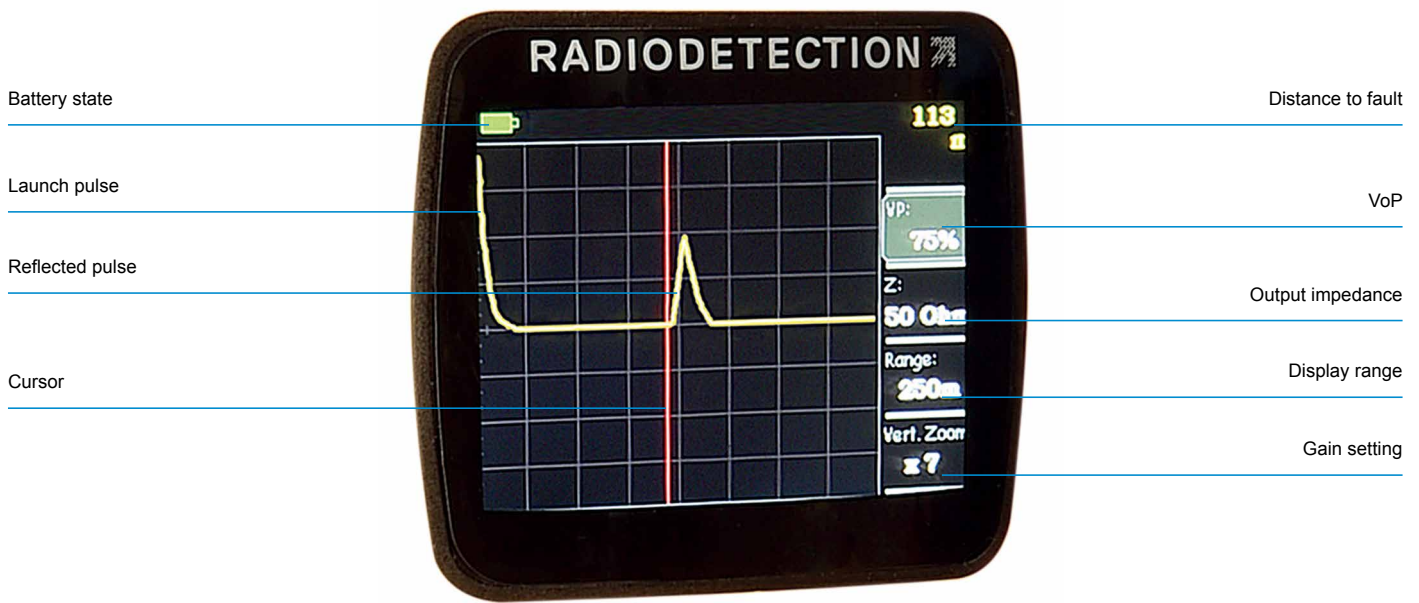
RADIODETECTION

113

Left labels (pointing to display):
- Battery state
- Launch pulse
- Reflected pulse
- Cursor

Right labels (pointing to display):
- Distance to fault
- VoP
- Output impedance
- Display range
- Gain setting

On-screen readings:
- VP: 75%
- Z: 50 Ohm
- Range: 250m
- Vert. Zoom: x 7

Table of Specifications		Notes
Ranges	7, 15, 30, 60, 120, 250, 500, 1000, 2000, 3000, 6000 23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000	Meters Feet
Range Selection	Manual range control	
Accuracy	1% of selected range*	
Display	328x256 pixel 3.5" color backlit LCD	
Resolution	Approx 1% of range	
Velocity Factor, VoP	Adjustable from 1% to 99%	
Output Pulse	5V peak to peak	Into open circuit
Output Impedance	Selectable 25, 50, 75 & 100 ohms	
Output Pulse Width	3ns to 3ms	Automatic with range
Scan Rate	2 scans/second	
Batteries	Six AA (LR6/R6) Alkaline or NiMH cells	
Battery Life	12 hours typical, continuous operation	Alkaline batteries
Voltage Protection	600V AC Category III, 300V AC Category IV 250V AC	Lexxi T1660 with Mains Blocking Filter Lexxi T1660 with all other connectors and Plug-In Module options (see below)
Power Down	Selectable 1, 2, 3, 5 minutes or disabled	
Operating Temp	-10º to 50ºC, 14º to 122ºF	
Storage Temp	-20º to 70ºC, -4º to 158ºF	
Dimensions	250x100x55mm, 9.8x4x2.2"	
Weight	600g, 1.3lb	
Safety	IEC 61010-1, EMC BS/EN 61326-1	
Water/Dust Proof	IP54	

Ordering information		
Description	**Sales Part Number**	**Notes**
Lexxi T1660 TDR	10/T1660	Lexxi T1660 TDR
Standard Accessories		
Twisted Pair, Alligator Clips	10/T1660-TP-ALLIG	Connection cables, 1.9m, 75"
Lexxi T1660 bag, clear cover	10/T1660-BAG	Bag
Optional Accessories		
Mains Blocking Filter, 25Ω, Cat IV	10/T1660-BLOCK-MOD	Plug-in Module, option
50Ω Twisted Pair Plug-In, Croc Clip	10/T1660-TP-CROC-MOD-50	Plug-in Module, option
100Ω Twisted Pair Plug-In, Croc Clip	10/T1660-TP-CROC-MOD-100	Plug-in Module, option
75Ω BNC Plug-In, BNC-F adapter	10/T1660-BNC-MOD-75	Plug-in Module, option

*Measurement accuracy of ±1% assumes accurate setting of Velocity of Propagation (VoP), homogeneity of VoP along the length of the cable and accurate cursor positioning.

RJM Equipment Sales, Inc
9808 NE 134th Ave, Vancouver, WA 98682
www.rjmcompany.com
sales@rjmcompany.com
800-620-4773

Radiodetection is a leading global developer and supplier of test equipment used by utility companies to help install, protect and maintain their infrastructure networks.

90/LEXXIT1660/ENG/01