

The Lightwave TSD

The Digital Lightwave LW TSD is a compact hands-free talk set for single-mode fiber-optic communications.

The Digital Lightwave LW TSD™ (Talk Set—Dual) is an inexpensive solution for meeting your single-mode fiber-optic communication needs.

Designed for voice communication over spare fibers, the LW TSD talk sets—which are sold in pairs—provide full-duplex, hands-free operation. Ease of use and compact size allow the operator to focus on the task at hand, rather than operating the talk set.

The LW TSD model includes a multi-party communication feature, which provides the connection of two talk sets at a common site to extend the range or to include three or more persons in the conversation.



Lightwave TSD (LW TSD)

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The Lightwave (LW) product series is a comprehensive line of handheld and ultra-compact test equipment for measuring, maintaining, and documenting the physical-layer performance of fiber-optic networks.

Optical Specifications

Wavelength	1550 nm
Dynamic Range	45 dB
Distance Range	
1310 nm-optimized single-mode fiber ¹	150 (typical) km ¹
1550 nm-optimized single-mode fiber ²	180 (typical) km ²
Fiber Type	SM
Connector	FC, SC, ST
Emitter Type	Laser
Emitter Classification	Class 1 (FDA CRF 21 and IEC 825)

General Specifications

Power	4 AA alkaline batteries or AC adapter
Weight in Use	1.16 lb (0.52 kg)
Size (H x W x D)	7.3 x 4.4 x 1.8 in (18.5 x 11.1 x 4.6 cm)
Operating Temperature	0° to +50° C
Storage Temperature	-20° to +50° C
Relative Humidity	0 to 90% (non-condensing)

Major Features

- Single fiber, full duplex
- 1550 nm single-mode model
- Field portable, hands-free operation
- Automatic connection
- Multi-party communication
- Digital technology

1. 0.4 dB/km @ 1310 nm, 0.3 dB/km @ 1550 nm.
 2. 0.5 dB/km @ 1310 nm, 0.25 dB/km @ 1550 nm.
- Specifications are subject to change without notice.



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Ordering Information For feature availability, ordering, and pricing information, call +1 727 442 6677 or visit www.lightwave.com.

Digital Lightwave provides industry-leading products, technologies, and services for deploying and managing communications networks. Telecommunications service providers and equipment manufacturers rely on our offerings to develop, install, maintain, and manage high-performance networks. With a presence in more than 80 countries, Digital Lightwave enables customers to successfully implement optical-based networks worldwide. To find the nearest sales office, please visit www.lightwave.com.