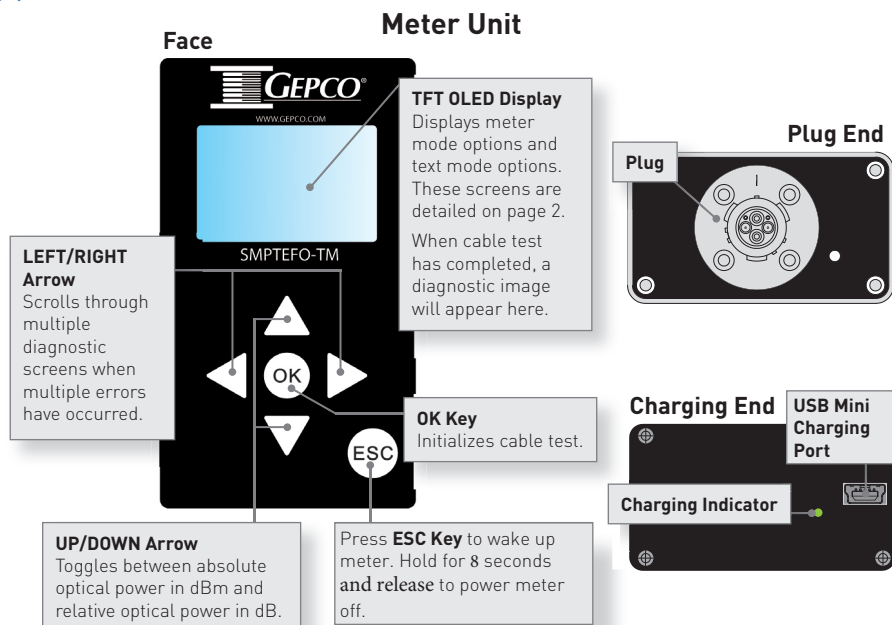


SMPTE Hybrid Fiber Cable Tester

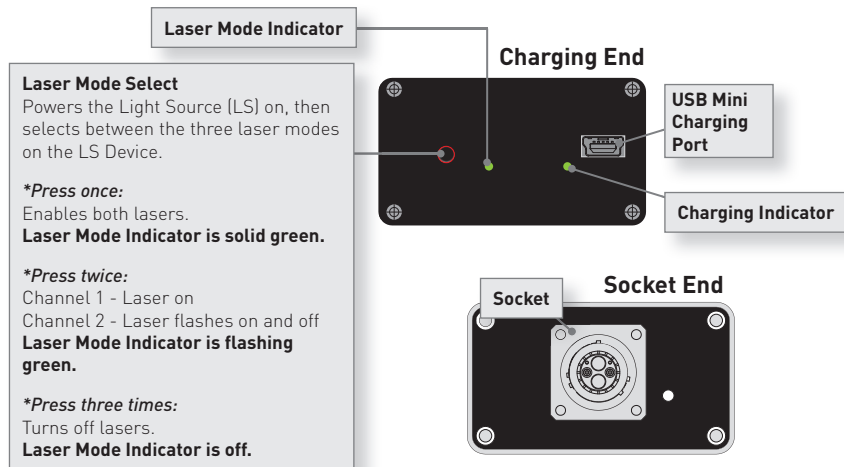


SMPTE Hybrid Fiber Cable Tester

User Guide



Light Source Unit



Features & Benefits

- Most Comprehensive Tester for Hybrid Fiber Camera Cables
- Tests Both Electrical and Optical Circuits
- Intuitive Diagnostic Display Graphically Depicts Which Contact is Defective or Pinned Out Incorrectly
- Compatible with All SMPTE 304 Standard Connectors
- Compact, Hand-Held Design
- Rechargeable Battery for 40 Hours of Operation
- OLED Backlit Display Easily Seen in Direct Sunlight or at Night
- Ruggedized ABS Plastic Carrying Case

Applications

- HD Trucks
- Sports/Events Broadcasting
- Fixed or Mobile Facilities



View the Demo at
gepco.com/SMPTEtester

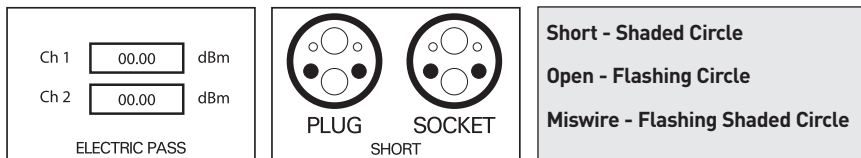
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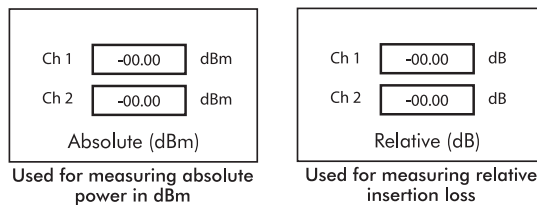


Testing Instructions

- Connect the Light Source Unit to the Plug side of the cable or patch panel.
- Connect the Meter Unit to the Socket side of the cable or patch panel.
- Power on Meter Unit by pressing any key. (On/off switch for older models.)
- Press OK when in active mode to start the test. The LSU will power on automatically.
- The screen will indicate "Electric Pass" on the bottom, or it will pull up a diagnostic screen indicating the electrical failure. "Electric Pass" indicates that the electrical auxiliary power, signal, and ground connections are cabled correctly with no shorts or opens across those links. If a failure is found, the diagnostic screen will graphically indicate what failures you have.

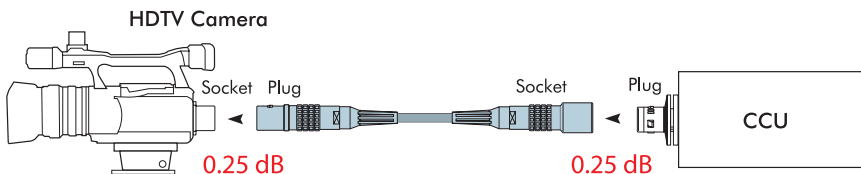


- Optical pass/fail is determined by the end user. The screen indicates the fiber loss per channel in Absolute (dBm) or Relative (dB) Mode. Press the up/down arrow keys to toggle between these two modes.



How To Measure Optical Signal Loss

- Each connection creates an additional 0.25dB of loss.
- Due to some higher optical RX sensitivities, it is possible to see as much as 5dB of insertion loss in a system and still receive optical data from the camera head.



Product meets eye safety requirement for Class 2 type lasers.

How To Check the Tester

To make sure the tester is working properly, connect the Light Source Unit with the Meter Unit and perform the following steps:

- Select Absolute Measurement Mode using up/down arrow keys.
- Press "OK" button to test the connection between the Meter and Light Source Units.
- Verify that optical power measured on Channel 1 and Channel 2 are greater than -10dBm and less than -3dBm.

How To Zero Out The Tester

To zero out the tester, connect the Light Source Unit with the Meter Unit and perform the following steps:

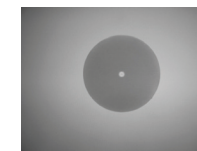
- Select Relative Measurement Mode using up/down arrow keys.
- Hold "OK" button for four seconds and release to zero out the meter.
- The bottom of the screen will indicate "Zero/Ref" when you release the "OK" button.

Fiber Cleaning

Always make sure your connections are clean before connecting them to the Meter Unit or Light Source Unit. With continuous use of the tester, periodic cleaning may be necessary. Visit gepco.com/cleanfiber for fiber cleaning tips and instructional video. Additional tools may be necessary for fiber inspection or cleaning.

Recommended Inspection Scope

Recommended inspection scope (Lemo® LEM-CL001) for identifying optical loss-causing debris.



Clean Fiber Contact



Dirty (High Loss)
Fiber Contact



WARNING!

- Failure to properly clean fiber contacts before each connection could cause severe damage to the contacts! Visit gepco.com/cleanfiber for fiber cleaning tips or to view an instructional video.
- Do not attempt any repairs of the Meter and/or Light Source Units as this will break the warranty seals and void the warranty. Repairs should only be performed by an authorized Gepco repair facility.

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