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MnOP720-RevD
Table of Contents

Overview .................................................................................................................. 3
Features .................................................................................................................... 3
Initial Preparation .................................................................................................... 4
Front Panel Operation & Display ............................................................................. 5
  Multichannel Configuration .................................................................................... 5
  Bidirectional Configuration .................................................................................... 6
USB Control of the OP720 ....................................................................................... 7
Warranty Information ............................................................................................... 7
Overview

The OP720 is an optical switch for single mode or multimode applications available in a slim-line, ultra-compact frame. This optical switch is USB powered and incorporates the latest technology in high-speed switching. With high repeatability and low loss, the OP720 is ideally suited for high channel count optical devices such as DWDM, waveguides, and splitters.

Features

- Compact, slim-line, ultra thin all optical switch
- MEMS technology, high reliability, long life
- USB powered, no external power supply needed
- Bright organic OLED for channel display
- Interface to custom applications via OPL-SDK
- High speed USB Interface for communication
- 2x2 configuration available for bi-directional testing
Initial Preparation

Unpacking and Inspection

The unit was carefully inspected, mechanically, electrically and optically before shipment. When received, the shipping carton should contain the items listed in Standard Contents. Account for and inspect each item. In the event of a damaged instrument, write or call OptoTest Corp, California.

Note: Be aware that accessories such as detector adapters, remote head detectors, and high performance reference cables will be located inside a small box labeled “Accessories Inside”. If this box is not included with the original shipment, contact OptoTest of their nearest distributor.

Please retain the shipping container in case re-shipment is required for any reason.

Damaged In Shipment

All instruments are shipped F.O.B. Camarillo when ordered from OptoTest. If you receive a damaged instrument you should:

1. Report the damage to your shipper immediately.
2. Inform OptoTest Corporation.
3. Save all shipping cartons.

Failure to follow this procedure may affect your claim for compensation.

Standard Contents

1. Model OP720 Multichannel Optical Switch
2. Power Cord (U.S. Shipments only)
3. USB A-B cable
4. Certificate of Calibration and if requested the Metrology Report
5. Instruction Manual(s)
6. CD with applicable software and documentation (if ordered)
7. Rack mount kit (optional)
**Front Panel Operation & Display**  
*Multichannel Configuration*

*Channel Selection*

By pressing the top button the instrument display switches to the next channel, it will loop at the last channel to the first channel. Similarly the bottom button switches the instrument to the previous channel.

Some systems may have other push button features. In this case, the left and right arrow buttons indicate previous and next channel. Also the two push buttons above the left and right arrow buttons switch between rows. For example, for a 48-channel system set to Channel 1 would move to channel 13 if the “next row” push button was pressed. Similarly, if the “previous row” push button was pressed, it will move to Channel 37.

*Channel Display*

Shows the current selected channel.
Front Panel Operation & Display

Bidirectional Configuration

Mode Selection

Both push buttons allow the user to toggle between crossed mode or bar mode.

**Bar Mode:** This option is used for forward unidirectional testing. At this mode, the Source port is connected to port 1, which outputs to port 2 and then to the OPM port.

**Crossed Mode:** Switching to crossed mode allows for testing in the reverse direction of the cable without flopping. At this mode, the Source port reroutes to port 2 and outputs to port 1, then eventually to the OPM port.

Channel Display

The display shows graphically the current mode of the unit.
USB Control of the OP720

The **OP720** can be controlled via the USB bus. Upon request, OptoTest can supply the appropriate DLLs along with sample programs to facilitate the software creation process. For these DLLs please contact [sales@optotest.com](mailto:sales@optotest.com).

Warranty Information

OptoTest Corp. warrants this product to be free from defects in material and workmanship for a period of one year from date of shipment. During the warranty period we will, at our option, either repair or replace any product that proves to be defective. To exercise this warranty contact OptoTest Corp. Headquarters. You will be given prompt assistance and return instructions. Repairs will be made and the instrument returned, transportation prepaid. Repaired products are warranted for the balance of the original warranty period, or at least 90 days.

**NOTE:** Do not send instruments for any reason without contacting OptoTest headquarters first.
For Application Notes, more detailed Testing Instructions, and the most up-to-date OptoTest News go to www.optobuzz.com