OptoTest

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OP712

USB Optical Power Meter

Instruction Manual

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MnOP712-RevA

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Overview

The OP712 is a USB-powered remote head optical power meter designed to measure power for both simplex and high-density connectors. When used alongside an optical source and the OP712RH OPM software application, this stand-alone OPM can measure both Insertion Loss (IL) and absolute power. Additionally, DLLs are available to create custom software applications to control the OP712.

Available detector options:

IN1	1mm InGaAs detector with universal Adapter
IN3	3mm InGaAs detector with universal Adapter
IN5	5mm InGaAs detector with magnetic Adapter
IN10	10mm InGaAs detector with magnetic Adapter
SI3	3mm Silicon detector with universal Adapter

Software Installation

Insert the supplied OptoTest USB drive into the computer. Double-clicking on the installer to launch it brings up the following screen.

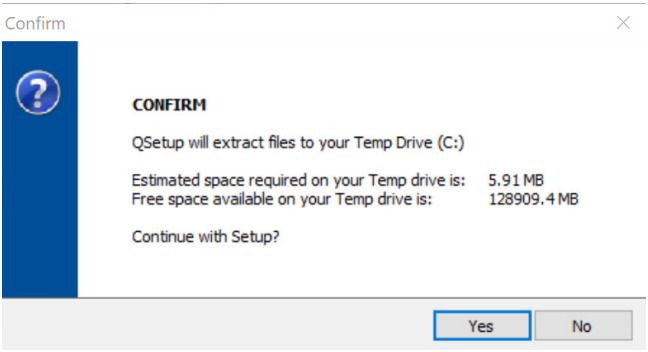

Figure 1

Select Yes to confirm the installation. From there, the installer will progress through a series of screens where the user can decide the location to save the installed files to and the creation of shortcuts.

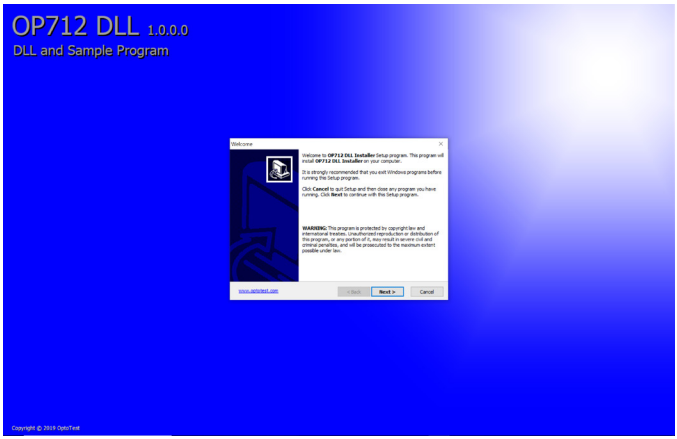

Figure 2

Once completed, the DLL and software files will be saved to the computer. By default, the files are stored in ***C:\Program Files (x86)\OptoTest\OP712 DLL***. In addition, drivers necessary for the computer to identify OptoTest instruments will be saved to ***C:\OptoTest\OptoTest*** Drivers. Be sure to run the appropriate driver installation for your system before continuing.

OP712RH OPM Demo Software

The OP712RH demo software allows the user to read power from the OP712 and display the results as an absolute value (dBm) or relative (dB) to a reference value. The ability to capture a reference value also makes it possible to perform Insertion Loss measurements within this software program.

When the software is launched, the devices screen has the user select which instrument they wish to control.

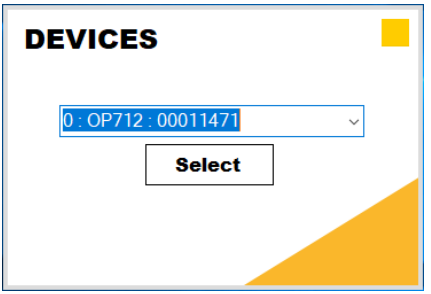

Figure 3

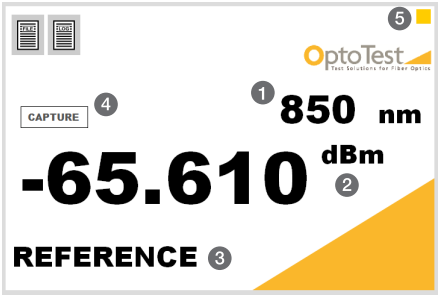

Figure 4

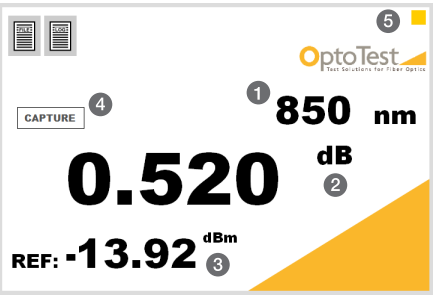

Figure 5

The operational screen of the OP712 software will look slightly different depending on whether or not a reference has been taken.

1	Select wavelength (850-1650nm)
2	Switch to dBm mode (only functional after taking a reference)
3	Capturers a reference and switches the display to dB mode if previously in dBm mode
4	Record a single measurement to the data file (file must be set first)
5	Close window

File and Log

The file button on the top left-hand side brings up a separate window where the user sets a sampling rate in seconds and specifies a file to record results to. Once a data file is set, the capture button becomes functional. The user can click capture to record a single measurement to the data file. Once a file is set, the gray border around the file button on the main display becomes yellow, signaling that a data file is set and can be written to.

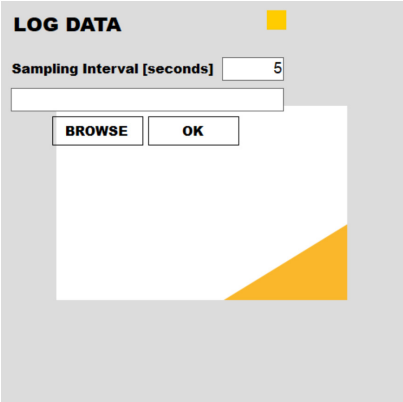

Figure 6

Clicking on the log button on the top left-hand side enables recording of values as the sampling rate set when creating the data file. As a result, single capture is disabled when log is active. A yellow border around the log button signals that recording is active. All results are stored to the computer in csv format.

A3 | 7/18/2019 4:42:32 PM

	A	B	C	D	E
1	Date	Wavelength	Reference	Power	
2	Date	Wavelength	Reference	Power	
3	7/18/2019 16:42	850	-14.75671	0.19436975	
4	7/18/2019 16:43	850	-14.49297	0.45811395	
5	7/18/2019 16:43	850	-14.47723	0.47385147	
6	7/18/2019 16:43	850	-14.524	0.42707757	
7	7/18/2019 16:43	850	-14.40592	0.54516186	
8	7/18/2019 16:43	850	-14.47662	0.47445562	
9	7/18/2019 16:43	850	-14.45313	0.49795222	
10	7/18/2019 16:43	850	-14.84721	0.10386811	
11	7/18/2019 16:43	850	-14.88156	0.06952069	
12	7/18/2019 16:43	850	-14.88886	0.06221995	
13	7/18/2019 16:43	850	-14.9095	0.04157885	
14	7/18/2019 16:44	850	-15.14116	-0.1900815	
15	Date	Wavelength	Reference	Power	
16					

Figure 7

Warranty Information

See our Terms and Conditions at www.optotest.com for warranty information.

NOTE: Do not send instruments for any reason without contacting OptoTest headquarters first. To request an RMA contact OptoTest at +1.805.987.1700 or customerservice@optotest.com.

For Application Notes, more detailed Testing Instructions, and the most up-to-date OptoTest News go to ***www.optobuzz.com***

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