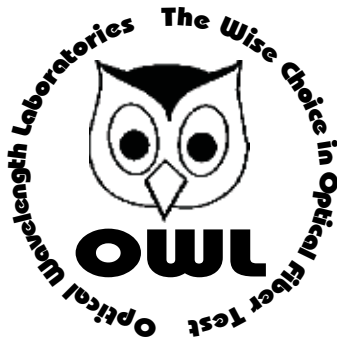


Procedure for Checking OWL Optical Power Meters For Proper Operation

ZOOM 2 Series

Using Dual OWL Multimode Light Sources



Optical Wavelength Laboratories

Procedure for Checking ZOOM 2 Series Optical Power Meters For Proper Operation

USING OWL DUAL OWL SERIES MULTIMODE SOURCES

LIGHT SOURCE MODEL NUMBERS:

DO2xx
DO2-85xx

Checking ZOOM 2 Series Optical Power Meters for Proper Operation

USING A DUAL OWL MULTIMODE LIGHT SOURCE

NOTE: it is recommended to thoroughly clean and inspect all patch cord connectors before making any connection.

STEP 1 - Connect ZOOM 2 and Dual OWL

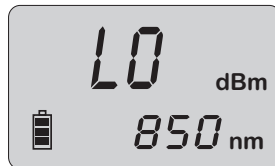
Connect the ZOOM 2 and Dual OWL together with an orange multimode patch cable as shown below.



STEP 2 - Power ON the ZOOM 2

Press **ON/OFF** to power on the ZOOM 2.

After a few seconds, the ZOOM 2 display should read 'LO', and will appear similar to the diagram shown at right.



NOTE: the wavelength and measurement units may be different from the display at right.

STEP 3 - Set the ZOOM 2 to 'dBm'

Press **UNITS ZERO** on the ZOOM 2 until the measurement units read 'dBm' as shown at right. You may need to press the button several times.



STEP 4 - Set ZOOM 2 to 850nm

Press **WAVELENGTH AUTO** on the ZOOM 2 until the wavelength display shows '850nm' as shown at right. You may need to press the button several times.



STEP 5 - Power ON the Dual OWL

Press **POWER ON** to power on the Dual OWL.

The 850nm indicator LED should now be lit as shown at right.



STEP 6 - Check optical power

The power reading that appears on the ZOOM 2 display will depend upon cable type. Consult the table below for a list of acceptable power readings.



Core Size	Acceptable Power Level	Replace at
62.5/125 μM	-19.0 to -22.0 dBm	-22.00 dBm
50/125 μM	-22.0 to -25.0 dBm	-25.00 dBm

NOTE: the following steps are only required if the optical power reading on the ZOOM 2 is too low.

STEP 7 - Replace the patch cable

The easiest way to troubleshoot low power levels is to try another patch cable. Over time, patch cables can wear out or become damaged the more they are used for optical loss testing. Replacing the patch cable usually fixes the problem.

STEP 8 - Clean patch cables and optical ports

If the problem still exists after patch cable replacement, there may be some debris, such as dust, dirt, or finger oil, that has collected on the connector endface or in the equipment optical ports.

Thoroughly clean and inspect the optical ports of the ZOOM 2 and the Dual OWL, as well as the fiber connector endfaces, according to the brochures that have been included with this kit. Several cleaning cycles may be required.

If the power level is still too low, even after a thorough cleaning and inspection and patch cable replacement, contact OWL technical support at 262-473-0643 for more information.