## Optical Wavelength Laboratories (OWL) Calibration Procedures

Upgrading WaveTester Optical Power Meter Firmware

April 15, 2005

# Calibration Procedure

### Upgrading WaveTester Optical Power Meter Firmware

Use this procedure to upgrade the firmware in the WaveTester optical power meter to the most current version.

Requirements for this procedure: – PC with a working COM port – WaveTester download cable

#### **INSTALL FLASH UPDATE PROGRAM**

Step 1 – Open My Computer and browse to the folder where the AVR Bootloader install program is stored. Double-click the AVR Bootloader icon to start installation.



🚱 AVR Bootloader	
Welcome to the AVR Bootloader Setup Wizard	
The installer will guide you through the steps required to install AVR Bootloader computer.	r on your
Click "Next" to continue.	
WAPNING: This computer program is protected by copyright law and internativ Unsufficient displication or distibution of this program, or any portion of it, may civil or criminal penalties, and will be proceduted to the maximum extent possible	onal treaties. result in severe le under the law.
Cancel Previous	Next

elect Installat	ion Folder		
The installer will install A	AVR Bootloader in the following folder.	u ac avistina (a	idu astu ara
below or click "Browse"	Circk. Next . To instal to a different ner	v or existing to	ider, enker one
Folder: C:\Prog	ram Files\AVR Bootloader\		Browse
You can install the soft	ware on the following drives:		
You can install the soft	ware on the following drives:	)isk Size	Available
You can install the soft	ware on the following driges:	Disk Size 74GB	Available 56GB
You can install the soft Volume ♀ C: ♀ G:	ware on the following driges:	74GB 9756MB	Available 56GB 2400MB
You can install the soft Volume ♀ 6:	ware on the following driges:	Disk Size 74GB 9756MB	Available 56GB 2400MB Disk Cost

Step 2 - Click "Next".

Step 3 - Click "Next".

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#### INSTALL FLASH UPDATE PROGRAM, cont.

Step 4 - Click "Next".

Step 5 – Click "Close" to complete the installation.

SETUP

Step 6 – Connect the WaveTester to the PC using the download cable and power on the meter.







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#### UPDATE WAVETESTER FIRMWARE

Step 7 – Click Start, OWL update, AVR Bootloader.

Step 8 – Click "Jump to Bootloader then Download". In the Status bar, there will be a countdown of the lines of code being downloaded into the WaveTester. Once all of the firmware has been downloaded, You will receive a notification window showing successful completion.

NOTE: if there is no response from the target bootloader, either: a) use a different COM port; or b) verify COM1 is not in use; or c) remove and re-insert the battery in the WaveTester, then power the WaveTester back on,

then repeat Step 8.



Connection	Start Bootloader Characters	Download File Characters
Com Port Selection:	Jump to Bootloader Command:	Line Complete Character:
Com 1 💌	Bootloader Active Character:	Page Error Character:
Baud Rate Selection:	<u>^</u>	1
9600 💌	Start Download Sequence:	Checksum Error Character:
	Bootloader Ready:	File Complete with Errors Character.
	?	2
	EEPROM Write:	File Complete, No Errors Character:
	r	16
Application Code 🔽	c:\Program Files\AVR Bootloader\wave	tester.hex Browse
		Brownel
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