NeoPhotonics S500 Power Monitor Software Manual

Software Installation	2
Installing S500 Power Monitor Software	2
Install Drivers for Windows XP / Windows 7	6
NeoPhotonics S500 Power Monitor Program	8
Startup	8
Basic Controls	9
Devices Status	11
Tips and Troubleshooting	11
Measuring Multiple Wavelengths with Single Monitor	11
Troubleshooting the Software	11

Software Installation

Installing S500 Power Monitor Software

- 1. Open NeoPhotonics folder provided by NeoPhotonics.
- 2. Choose installer folder->SETUP.EXE



3. A welcome window coming out, click next.

😓 NeoPhotonics S500 Monite	or Setup
Nephotonics	Welcome Welcome to the installer for NeoPhotonics S500 Monitor 1.0. It is strongly recommended that you exit all Windows programs before continuing with this installation. If you have any other programs running, please click Cancel, close the programs, and run this setup again. Otherwise, click Next to continue.
	< <u>B</u> ack <u>Next</u> ≻ <u>C</u> ancel

4. Input user information, then click next to proceed.

🗟 NeoPhotonics S500 M	onitor Setup		×
User Information		Photo	nics
Name:			
Darren			
Company:			
	< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ancel

5. Select install directory, then click next.

🛃 NeoPhotonics \$500 Monitor Setup 📃 🔤
Installation Folder NeoPhotonics S500 Monitor to be installed?
The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.
Install NeoPhotonics S500 Monitor to:
C:\Program Files (x86)\NeoPhotonics S500 Monitor Change
Space required: 76.2 MB Space available on selected drive: 18.01 GB
< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

6. Select short cut folder information, then click next

🛃 NeoPhotonics S500 Monito	or Setup
Shortcut Folder Where would you like the shortcuts	Nee Photonics
The shortcut icons will be created i folder, you can either type a new n	in the folder indicated below. If you don't want to use the default ame, or select an existing folder from the list.
Shortcut Folder:	
NeoPhotonics S500 Monitor	-
 Install shortcuts for current use Make shortcuts available to all 	rr only I users
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

7. Click next to continue.

🛃 NeoPhotonic	s S500 Monitor Setup
Ready to Instal You are now read	y to install NeoPhotonics S500 Monitor 1.0
The installer now	has enough information to install NeoPhotonics S500 Monitor on your computer.
The following set	tings will be used:
Install folder:	C:\Program Files (x86)\NeoPhotonics S500 Monitor
Shortcut folder:	NeoPhotonics S500 Monitor
Please click Next	to proceed with the installation.
	< <u>B</u> ack <u>Next></u> <u>C</u> ancel

8. Click finish to complete the installation.

🛃 NeoPhotonics S500 Monit	or Setup	×
Nephotonics	Installation Successful The NeoPhotonics S500 Monitor 1.0 installation is complete Thank you for choosing NeoPhotonics S500 Monitor! Please click Finish to exit this installer.	2.
	Kack <u>E</u>inish <u>C</u> ancel	

- 9. After program installed, you can find the files of USB Driver and NeoPhotonics S500 Power Monitor Software in the installation directory.
 - 1) Lib files

The folder contains the all the lib files related to development.

2) Manuals

The folder contains the relative document, including programmer guide and operation manual

3) Samples

The folder contains the source code sample provided by NeoPhotonics.

4) USB_Driver

The folder contains the S500 device install driver.

名称	修改日期	类型	大小
鷆 Lib files	2016/3/22 16:57	文件夹	
鷆 manuals	2016/3/22 16:57	文件夹	
퉬 Samples	2016/3/22 16:57	文件夹	
퉬 Uninstall	2016/3/22 17:19	文件夹	
퉬 USB_Driver	2016/3/22 16:57	文件夹	
NeoPhotonics \$500 Power Monitor.e	2016/3/22 15:29	应用程序	542 KB
S500API_NEO.dll	2016/3/22 8:55	DLL 文件	267 KB
🌄 uninstall.exe	2016/3/22 17:19	应用程序	1,310 KB

Install Drivers for Windows XP / Windows 7

Note: Driver needs to be installed for every new Series 500 device connected.

- 1. Plug in NeoPhotonics S500 Monitor. If Found New Hardware Wizard window pops up skip to step 7.
- 2. Right click on My Computer and select Properties.
- 3. Select the Hardware tab.
- 4. Select Device Manager.

System F	lestore	Autom	atic Updates	Remote
General	Compu	ter Name	Hardware	Advanced
Device Ma	nager			
2	The Device Ma on your compu- properties of an	anagerlists al ter. Use the D w device	the hardware devi levice Manager to	ces installed change the
	acpender er ar	y 001100.	Device M	lanager
Drivers				
Drivers	Driver Signing I compatible with now Windows	ets you make I Windows. W connects to \	sure that installed /indows Update let Vindows Update fo	drivers are s you set up r drivers.
Drivers	Driver Signing I compatible with now Windows Driver S	ets you make I Windows. W connects to \ igning	sure that installed /indows Update let Vindows Update fo Windows	drivers are s you set up r drivers. Update
Drivers	Driver Signing I compatible with now Windows Driver S Profiles	ets you make I Windows, W connects to V igning	sure that installed /indows Update let Vindows Update fo Windows	drivers are s you set up r drivers. Update
Drivers	Driver Signing I compatible with tow Windows I Driver S Profiles Hardware profil different hardware	ets you make Windows. V connects to V igning es provide a are configura	sure that installed, indows Update let windows Update fo Windows way for you to set u ions.	drivers are s you set up drivers. Update p and store

5. Click the + icon next to "Other Devices" and select "MSP430-USB Example".

🖨 Device Manager	
File Action View Help	
Boron Boron	

6. Right click "MSP430-USB Example" and select "Update Driver".

Device manager		
le Action View Help	and the second se	
· • • • • • •	🗉 🚵 🕿 🕱 👼	
YARROW Computer Computer Disk Arives Mankas Mankas Disk Arives Disk Arives	ces ders g dericas	
🛞 🚽 Ports (COM & LPT)	Update Driver	
Processors Processors Processors	Disable	
System devices	Charloton	
T T	Scan for hardware changes	
🗉 ॡ Universal Serial Bus		

- 7. This will bring up New Hardware Update Wizard. Select "No, not at this time" and click Next.
- 8. Select "Install item from a specific location" and click Next.

 Select "Include this location in the search" and browse to the folder where the driver is located. The driver for the Series 500 is located in the Driver subfolder within the NeoPhotonics folder sent with the software. (Example C:\Program\USB Driver). The driver will be the file "1CDC_descTool.inf". Once the folder has been selected click Next.

Please ch	oose your search and installation options.
⊙ Sea	tch for the best driver in these locations
Use	the check boxes below to limit or expand the default search, which includes local s and removable media. The best driver found will be installed.
	Search removable media Illocov, CD-ROM, 1
5	Include this location in the search:
	C:\Pogram\USB Driver 🔽 📴
ODor	1 search. I will choose the driver to install.
Cho	one this option to select the device driver from a list. Windows does not guarantee
the	Inver you choose will be the best match for your hardware.
	<back next=""> Cancel</back>

10. A window will pop up asking you to authorize the driver installation. Click Continue Anyway.



11. Once the driver has installed the following window will pop up. Click Finish.



NeoPhotonics S500 Power Monitor Program

Warning: Make sure the license file must be put in the "NeoLicense" folder.

Startup

- 1. Plug in all NeoPhotonics S500 devices prior to starting the program.
- 2. Navigate to directory that you installed the software (default is on start menu) and double click the executable(Neophotonics S500 Power Monitor)

文件夹			
<u>^</u>	名称	修改日期	类型
	길 Lib files	2016/3/22 16:57	文件夹
	퉬 manuals	2016/3/22 16:57	文件夹
	퉬 Samples	2016/3/22 16:57	文件夹
	퉬 Uninstall	2016/3/22 17:19	文件夹
	USB_Driver	2016/3/22 16:57	文件夹
	Net NeoPhotonics \$500 Power Monitor.e	2016/3/22 15:29	应用程序
	S500API_NEO.dll	2016/3/22 8:55	DLL 文件
	🌄 uninstall.exe	2016/3/22 17:19	应用程序

3. A Splash screen shown below would be pop up to indicate the program is scanning all the plugged in S500 prior to main frame coming out.



4. Program would find all the plugged in S500 devices and show the license status for each device on main frame screen, the licensed device show "Licensed" in green back color, other show "Not licensed" in red back color. (see following picture).

NeoPhotonics S500 Power Monitor V1.0								
		Power	Serial Number	WaveLength(nm)	12	Power	Serial Number	WaveLength(nm)
Basic Controls: Continous Sampling			×	×	14			×
Stop Status:	3		~	~	15		*	~
	4		*	~	16		~	~
Log Data	5		*	~	17		~	~
File:	6		•	~	18		v	~
Devices Status:	7		v	~	19		`	~
Serial Number Status 108206124 Licensed	8		~	~	20		×	•
113238009 Not Licensed	9		¥	~	21		~	~
	10		v	~	22		v	•
	11		~	•	23		×	×
	12		v	~	24		~	•

5. The software support up to 24 devices to make measurement simultaneously. Each licensed serial number showed in one drop-box.

W NeoPhotonics S500 Power Monitor V1.0						
Neo Photonics	Power	Serial Number	WaveLength(nm)	Powe	er Serial Number	WaveLength(nm)
Basic Controls: Continous Sampling	2		×	14		~
Ston Status:	3	•	*	15	×	~
	4	•	*	16	¥	*
Log Log Data	5	v	Y	17	×	~
File:	6	v	Y	18	×	~
Devices Status:	7	`	*	19	v	~
Serial Number Status 108205124 Licensed	8	v	¥	20	v	~
113238009 Not Licensed	9	· ·	*	21	<u> </u>	~
	10	v	*	22	×	~
	11		¥	23	¥	~
<	12	·	~	24	×	~

Basic Controls

1. Continuous sampling



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1) The Program would go to the continuous sampling status once the program main screen

coming out. The status showing

Status: 🤶

means continuous ampling

 Stop continuous sampling stops sampling, then name of "Stop" would change to "Start". Click "Start" button to start to continuous sampling again. The status showing

means sampling stopped

- 2. Log
 - 1) The software support to record the measurement data into a file. Checked the "Log" box to start record the data the log file.
 - 2) The program takes data in order of channel number (1,2,3 and so on). This means that the more channels you are monitoring the longer it will take to refresh each individual channel.

Data.txt - Notepad	ł		
File Edit Format	View Help		
DATE REC	TIME REC	SERIAL NO	P (dBm) WAVE
DATE REC 08/27/2013 08/27/20	9:16:28 AM 9:16:28 AM 9:16:28 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:29 AM 9:16:30 AM 9:16:30 AM 9:16:30 AM 9:16:30 AM 9:16:31 AM 9:16:31 AM 9:16:31 AM 9:16:31 AM 9:16:31 AM 9:16:32 AM 9:16:32 AM 9:16:32 AM 9:16:32 AM 9:16:32 AM 9:16:32 AM	11111111 123456789 11111111	-8.15 1550 -34.02 850 -8.15 1550 -34.00 850 -8.12 1550 -34.02 850 -8.12 1550 -34.02 850 -8.12 1550 -34.02 850 -8.12 1550 -34.02 850 -8.12 1550 -34.02 850 -8.12 1550 -34.02 850 -8.12 1550 -34.00 850 -8.12 1550 -34.02 850 -8.12 1550 -34.00 850 -8.12 1550 -34.02 850 -8.12 1550 -8.12
•			a a

- 3. Select device to measure
 - 1) Choosing the serial number and selecting wavelength in wavelength drop box means to choose this device to start measurement
 - 2) If you want to stop taking data on a certain channel you must select a blank serial number from the drop down menu

Status:



Devices Status

Display the licensed status for all the plugged devices. Make sure the license files should put in the "NeoLicense" folder.

Tips and Troubleshooting

Measuring Multiple Wavelengths with Single Monitor

 If a NeoPhotonics monitor was purchased calibrated at multiple wavelengths it is possible to cycle through the calibrated wavelengths in the program. It is possible to select the same serial number in different channels. Be aware that using a single monitor to measure multiple wavelengths will slow down the refresh rate of the program due to reconfiguration between measurements at each wavelength.

Troubleshooting the Software

- Do not run multiple NeoPhotonics software applications simultaneously on the same computer or power monitor.
- Ensure that the monitors attached to the computer are registered to the software in use.
- Check that the log data code being entered is the correct code corresponding to the specific software serial number in use.
- Ensure that monitors are attached to an active USB port.
- NeoPhotonics does not support 3rd party USB hubs but if an external USB hub must be used, make sure that the hub is powered externally. Do not daisy chain/string together multiple Series 500 monitors to single powered USB slot on a computer.
- Do not rename COM ports in windows. Doing so may result in multiple monitors having duplicate names.
- If errors persist: unplug all monitors from computer, exit program. Then plug in monitors and restart program.