# ConLAS

## Laser Source

## Software instructions

## (V1.1)

# CONTENTS

# 1.Outline

1.1This part includes the installations and instructions of the software "ConLAS";

1.2ConLAS is designed for applying to the software for VENUS series laser source including bentchtops and modules，and having graphical user interface，is operated under the Microsoft Windows systems；

1.3As ConLAS is being used,make sure the serial port cable which is controlling the single amplifier or a serial port hub or USB to a serial port hub which is controlling multiple amplifiers are connected between the computers and the modules. We recommend Z-TEK USB and DB9 tielines and please setup the tielines driver correctly; as to the modules have been built-in USB interfaces,you can connet USB-A to USB-B cables between computer and module directly；

1.4As to the modules with built-in USB interfaces，you need to install USB drivers under the place of "\USB serial port drivers"；
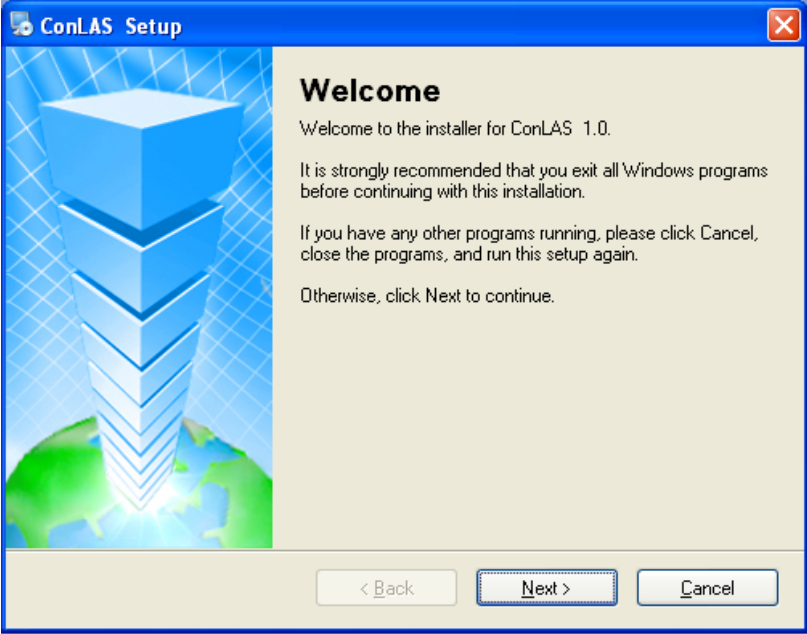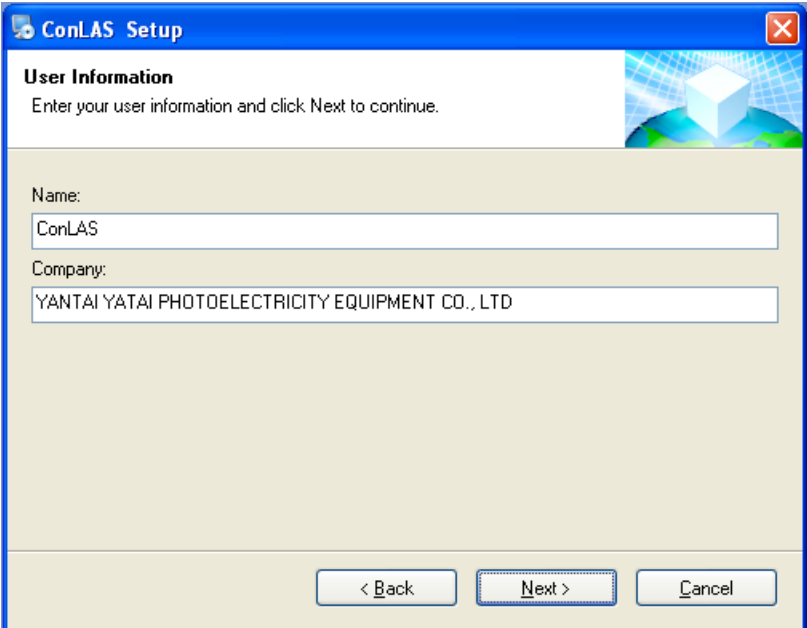
1.5If you have any problems,please don't hesitate to contact us.

## 2. Software installation

2.1 Software installation conditions：MicroSoft Windows XP（SP2 aboved）or Win7、Win8；

## 2.2 Software installation steps：

| steps | instructions |
|---|---|
| 1 | Insert a disk，or perating "setup.exe" under the content of setup. |
| 2 | Showing the interface as follows，then click the button"next step"<br><br> |
| 3 | Showing the information of user and product，then click the button "next step"<br><br> |

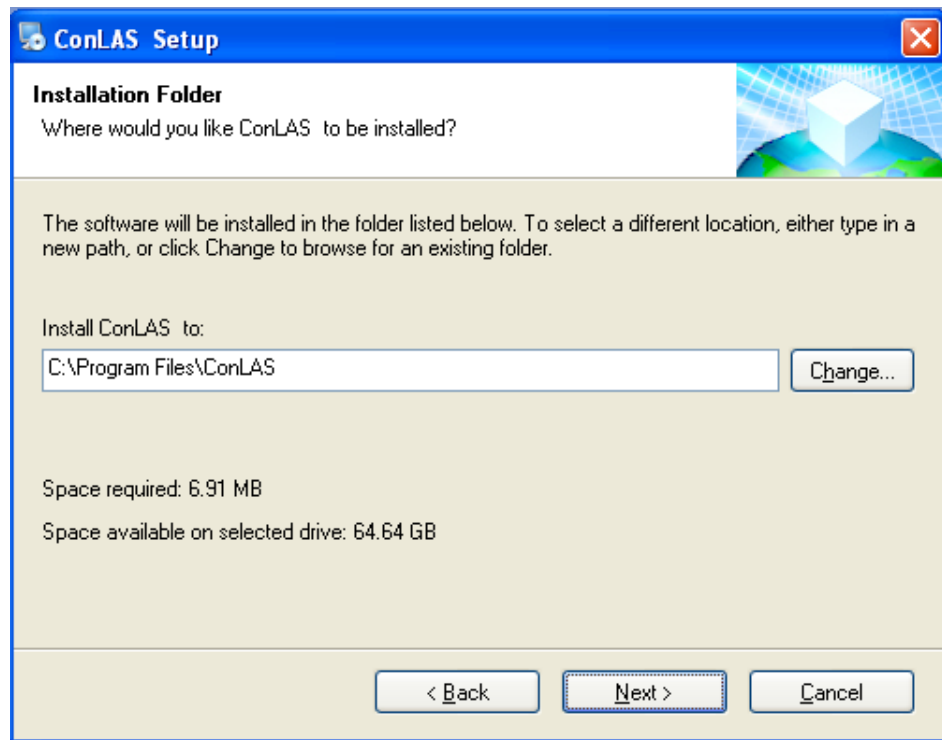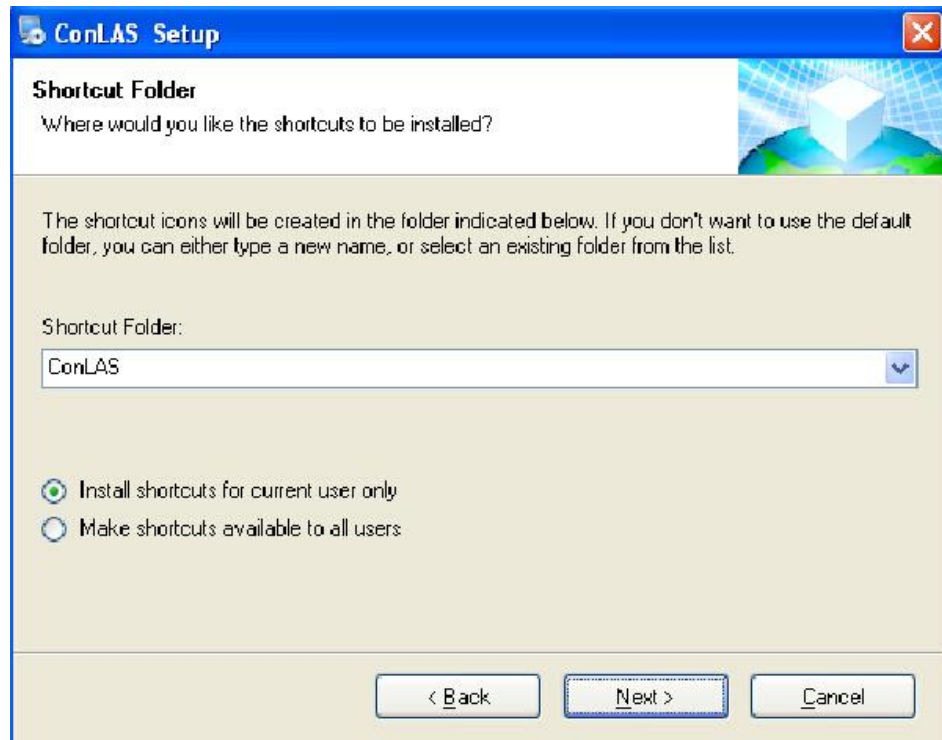| | |
|---|---|
| 4 | Choosing the installation paths, the default path is ： C:\Program Files\Laser Source\， or user-defined installation paths.<br><br>**ConLAS Setup**<br>**Installation Folder**<br>Where would you like ConLAS to be installed?<br><br>The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.<br><br>Install ConLAS to:<br>C:\Program Files\ConLAS     Change...<br><br>Space required: 6.91 MB<br>Space available on selected drive: 64.64 GB<br><br>&lt; Back    Next &gt;    Cancel |
| 5 | Creating the shortcut<br><br>**ConLAS Setup**<br>**Shortcut Folder**<br>Where would you like the shortcuts to be installed?<br><br>The shortcut icons will be created in the folder indicated below. If you don't want to use the default folder, you can either type a new name, or select an existing folder from the list.<br><br>Shortcut Folder:<br>ConLAS<br><br>⦿ Install shortcuts for current user only<br>◯ Make shortcuts available to all users<br><br>&lt; Back    Next &gt;    Cancel |

| | |
|---|---|
| 6 | Being ready to install<br><br>**ConLAS Setup**<br>**Ready to Install**<br>You are now ready to install ConLAS 1.0<br><br>The installer now has enough information to install ConLAS on your computer.<br><br>The following settings will be used:<br><br>Install folder:     C:\Program Files\ConLAS<br><br>Shortcut folder:   ConLAS<br><br>Please click Next to proceed with the installation.<br><br>< Back    Next >    Cancel |
| 7 | Starting to install<br><br>**ConLAS Setup**<br>**Installing ConLAS**<br>Please wait...<br><br>Installing Files...<br>C:\WINDOWS\system32\comdlg32.ocx<br><br>Cancel |

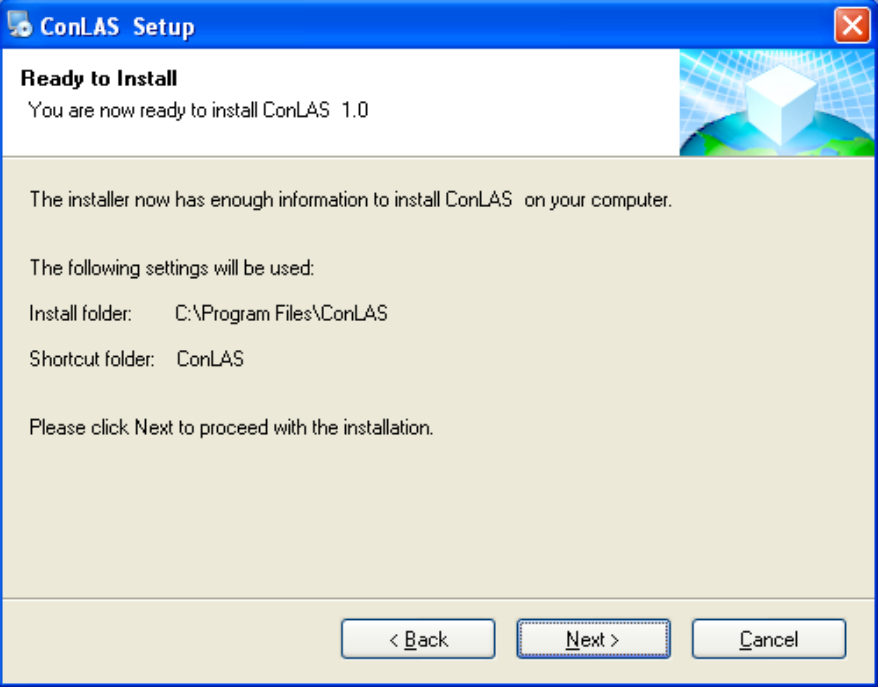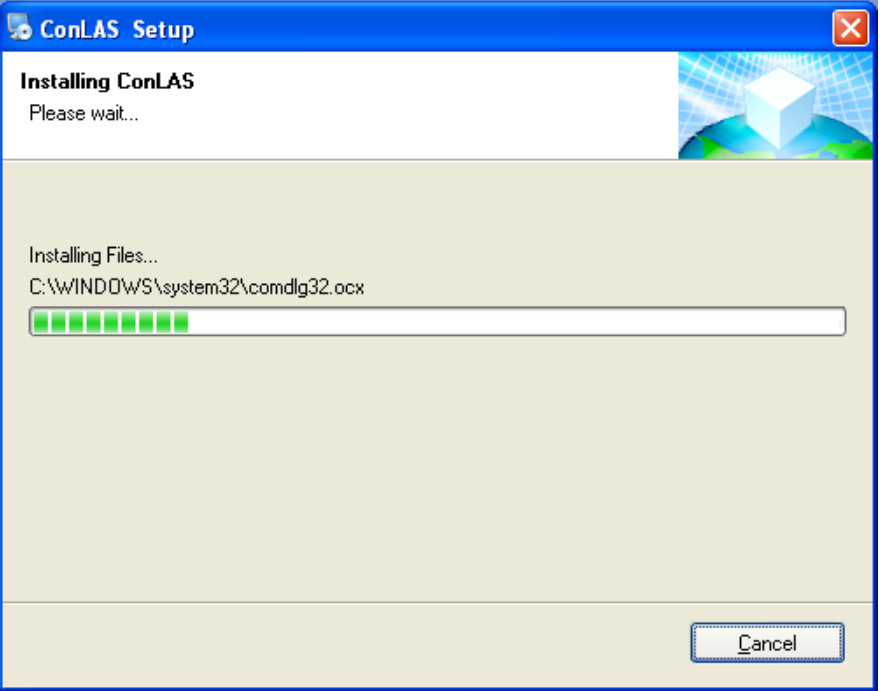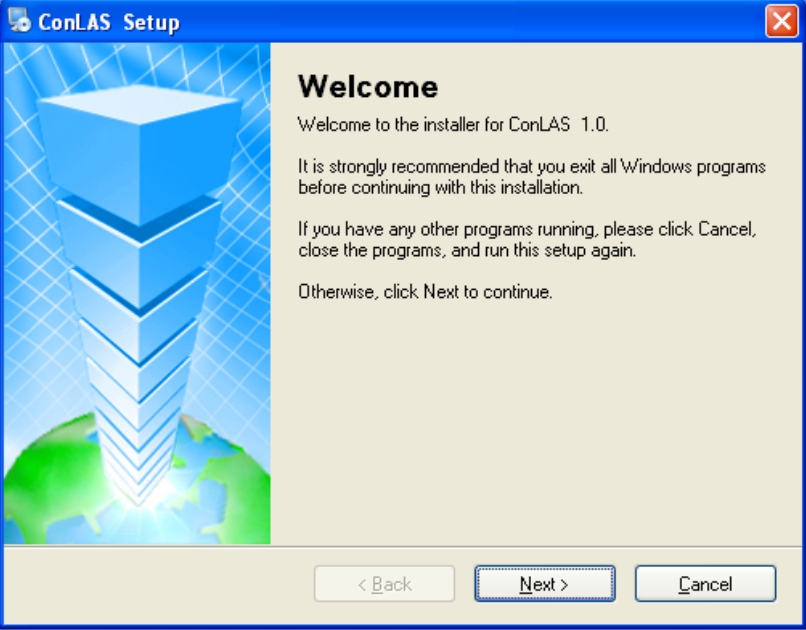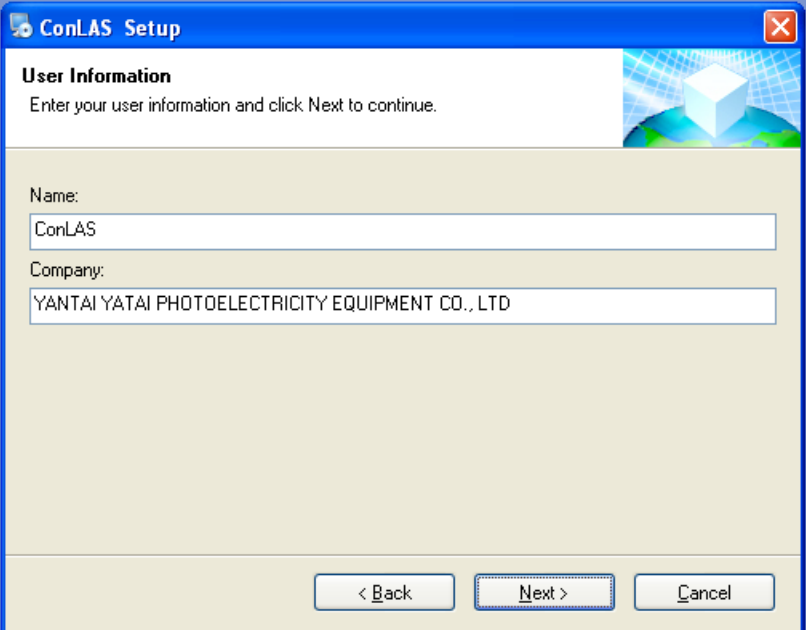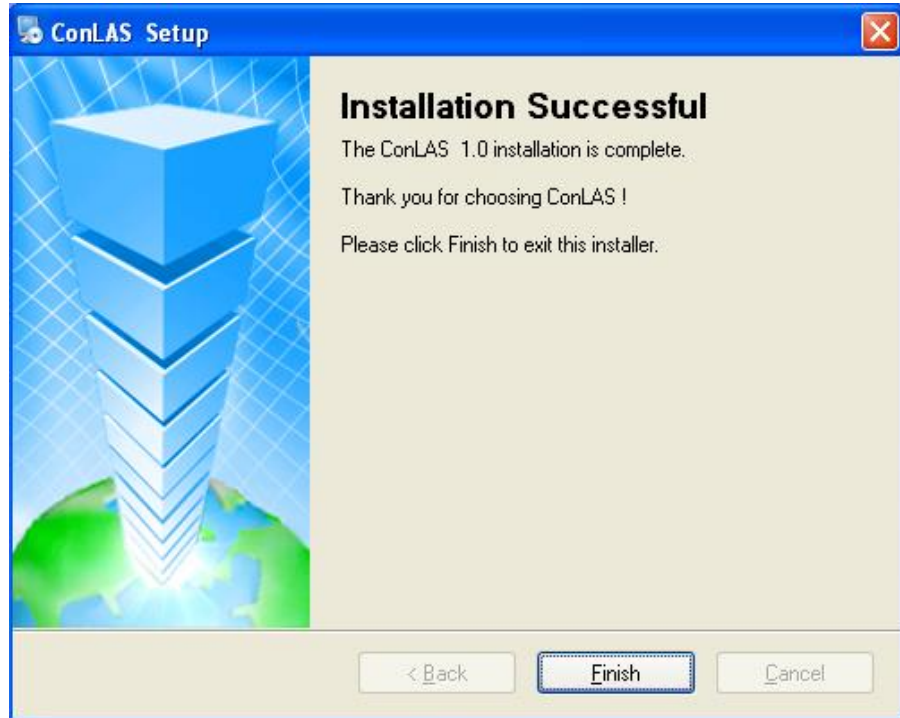| steps | instructions |
|-------|--------------|
| 1 | Insert a disk，or perating "setup.exe" under the content of setup. |
| 2 | Showing the interface as follows，then click the button"next step"  |
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| 4 | Choosing the installation paths, the default path is：C:\Program Files\Laser Source\，or user-defined installation paths. |

| | |
|---|---|
| | **ConLAS Setup**<br><br>**Installation Folder**<br>Where would you like ConLAS to be installed?<br><br>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.<br><br>Install ConLAS to:<br>C:\Program Files\ConLAS      Change...<br><br>Space required: 6.91 MB<br><br>Space available on selected drive: 64.64 GB<br><br>&lt; Back    Next &gt;    Cancel |
| 5 | Creating the shortcut<br><br>**ConLAS Setup**<br><br>**Shortcut Folder**<br>Where would you like the shortcuts to be installed?<br><br>The shortcut icons will be created in the folder indicated below. If you don't want to use the default folder, you can either type a new name, or select an existing folder from the list.<br><br>Shortcut Folder:<br>ConLAS<br><br>⦿ Install shortcuts for current user only<br>◯ Make shortcuts available to all users<br><br>&lt; Back    Next &gt;    Cancel |
| 6 | Being ready to install |

| | |
|---|---|
| | **ConLAS Setup** ✕ <br><br> **Ready to Install** <br> You are now ready to install ConLAS 1.0 <br><br> The installer now has enough information to install ConLAS on your computer. <br><br> The following settings will be used: <br><br> Install folder:      C:\Program Files\ConLAS <br><br> Shortcut folder:    ConLAS <br><br> Please click Next to proceed with the installation. <br><br><br><br> [ < Back ]   [ Next > ]   [ Cancel ] |
| 7 | Starting to install <br><br> **ConLAS Setup** ✕ <br><br> **Installing ConLAS** <br> Please wait... <br><br><br> Installing Files... <br> C:\WINDOWS\system32\comdlg32.ocx <br> [████████▒▒▒▒▒▒▒▒▒▒▒▒] <br><br><br><br><br><br> [ Cancel ] |

| | |
|---|---|
| 8 | After the installation is successful, you can run this software from the start menu as well as creating a shortcut on the desktop.<br><br>**ConLAS Setup**<br><br>**Installation Successful**<br><br>The ConLAS 1.0 installation is complete.<br><br>Thank you for choosing ConLAS !<br><br>Please click Finish to exit this installer.<br><br>< Back    Finish    Cancel |

# 3．Software application

## 3.1．The port number confirmation

After installing the USB serial port connections correctly, the system will assign a port number which would be used to connect modules and computers. Please check as follow：
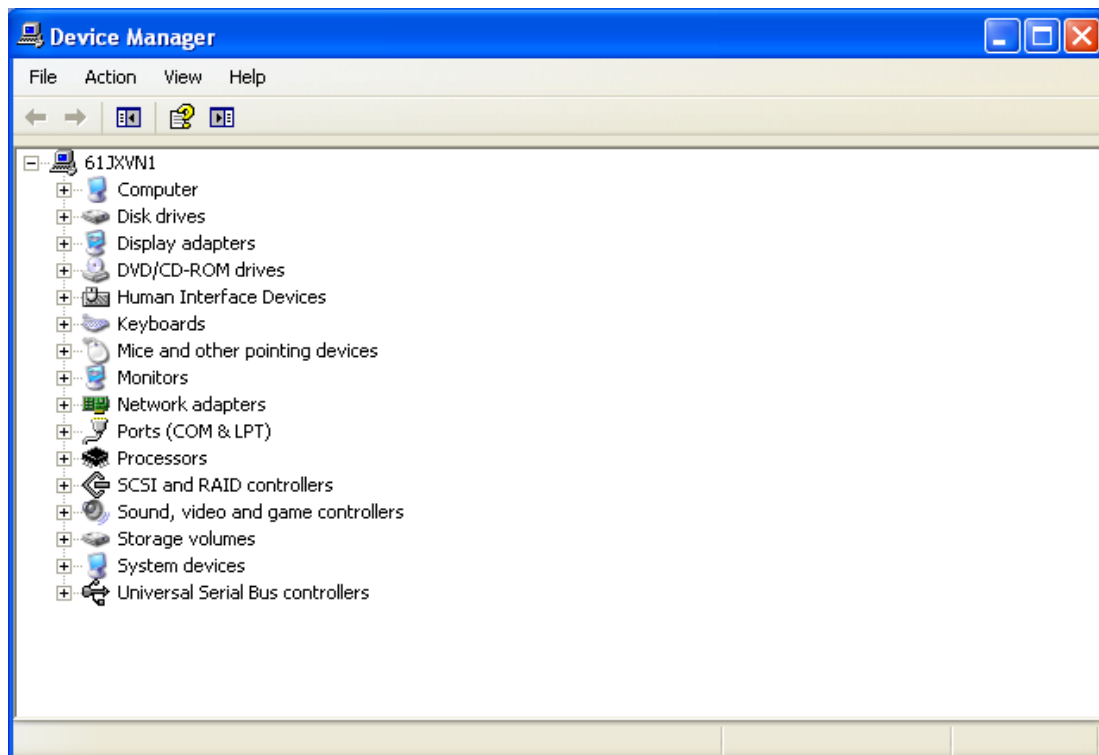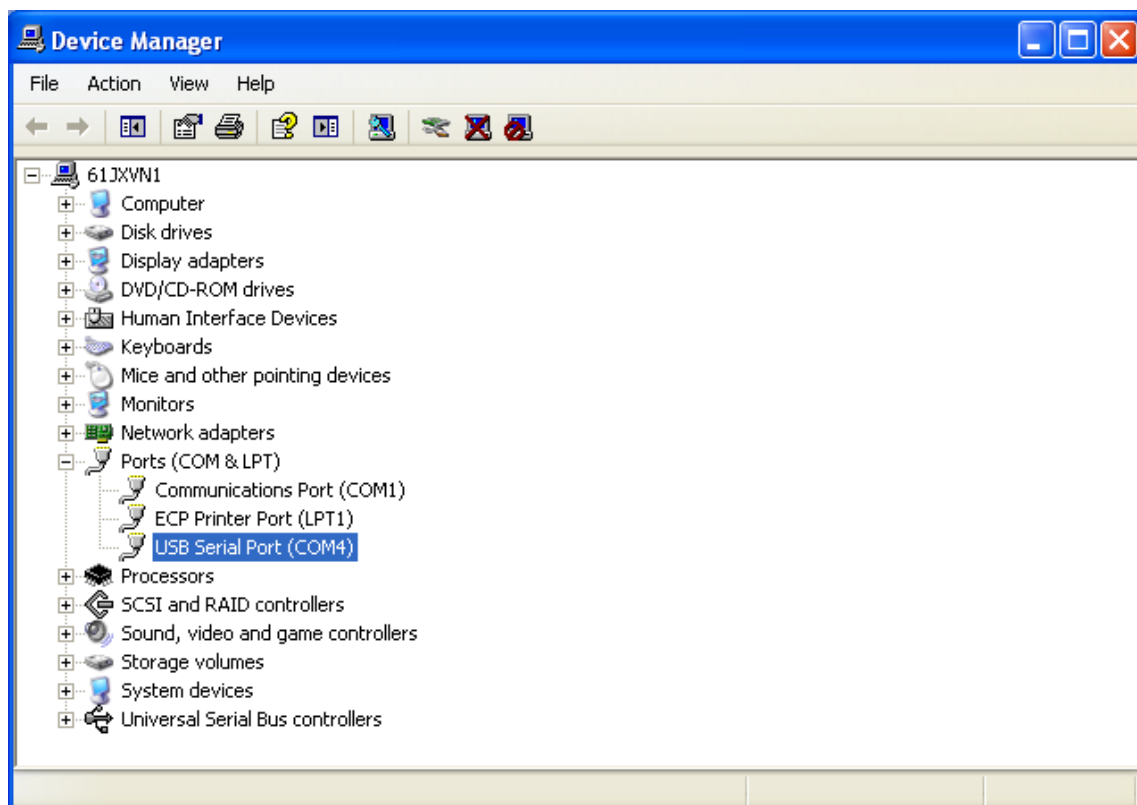
3.1.1．"my computer"—— "attribute"—— "system attribute"：
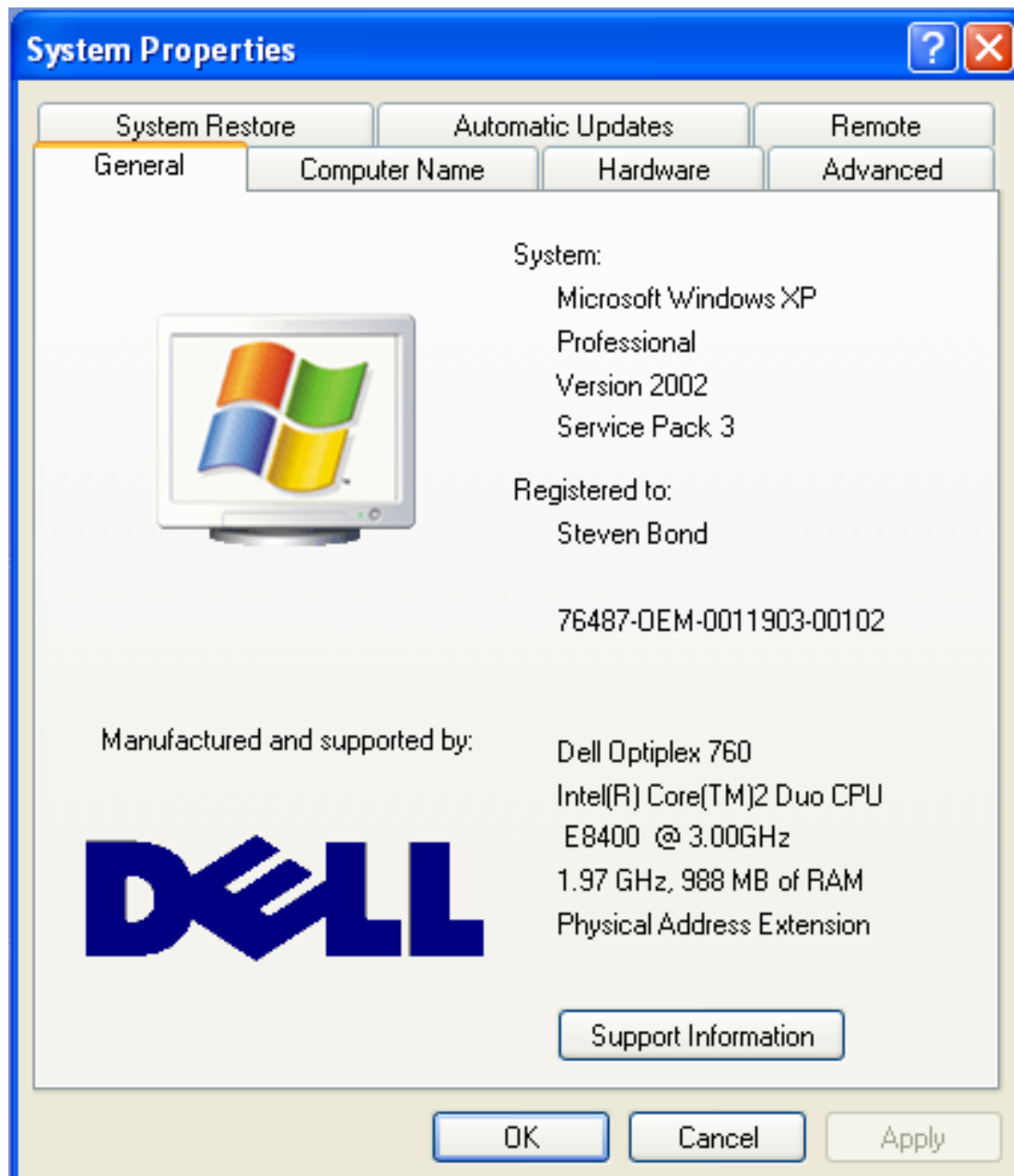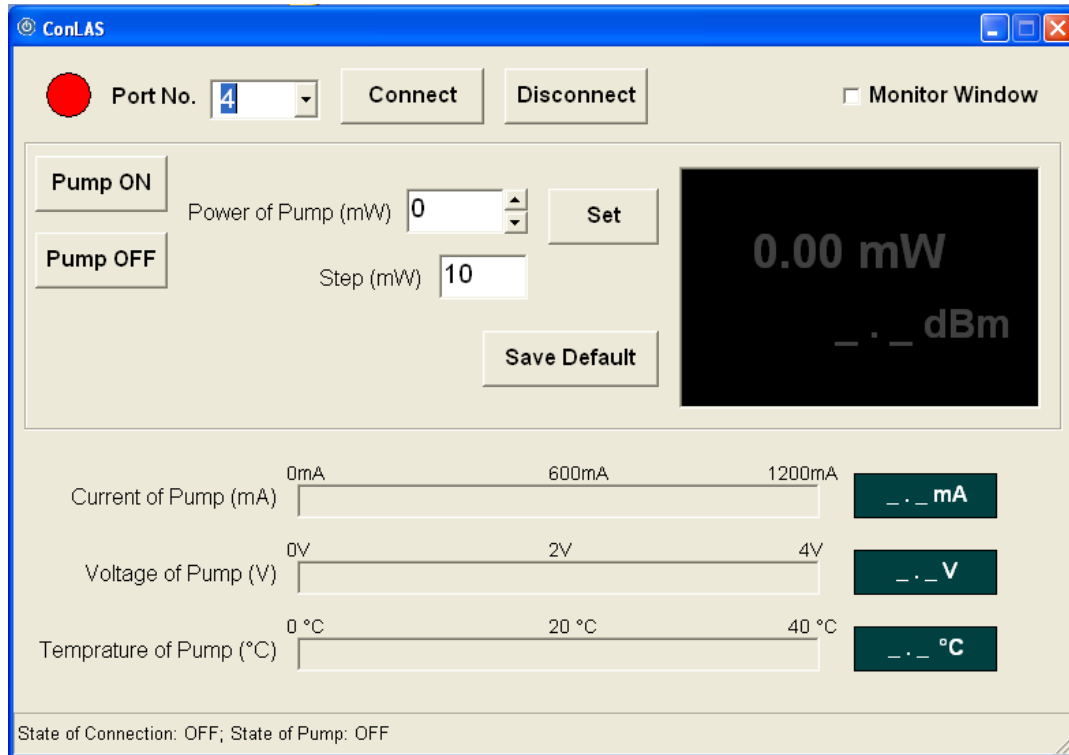
3.1.2.Click "Hardware":
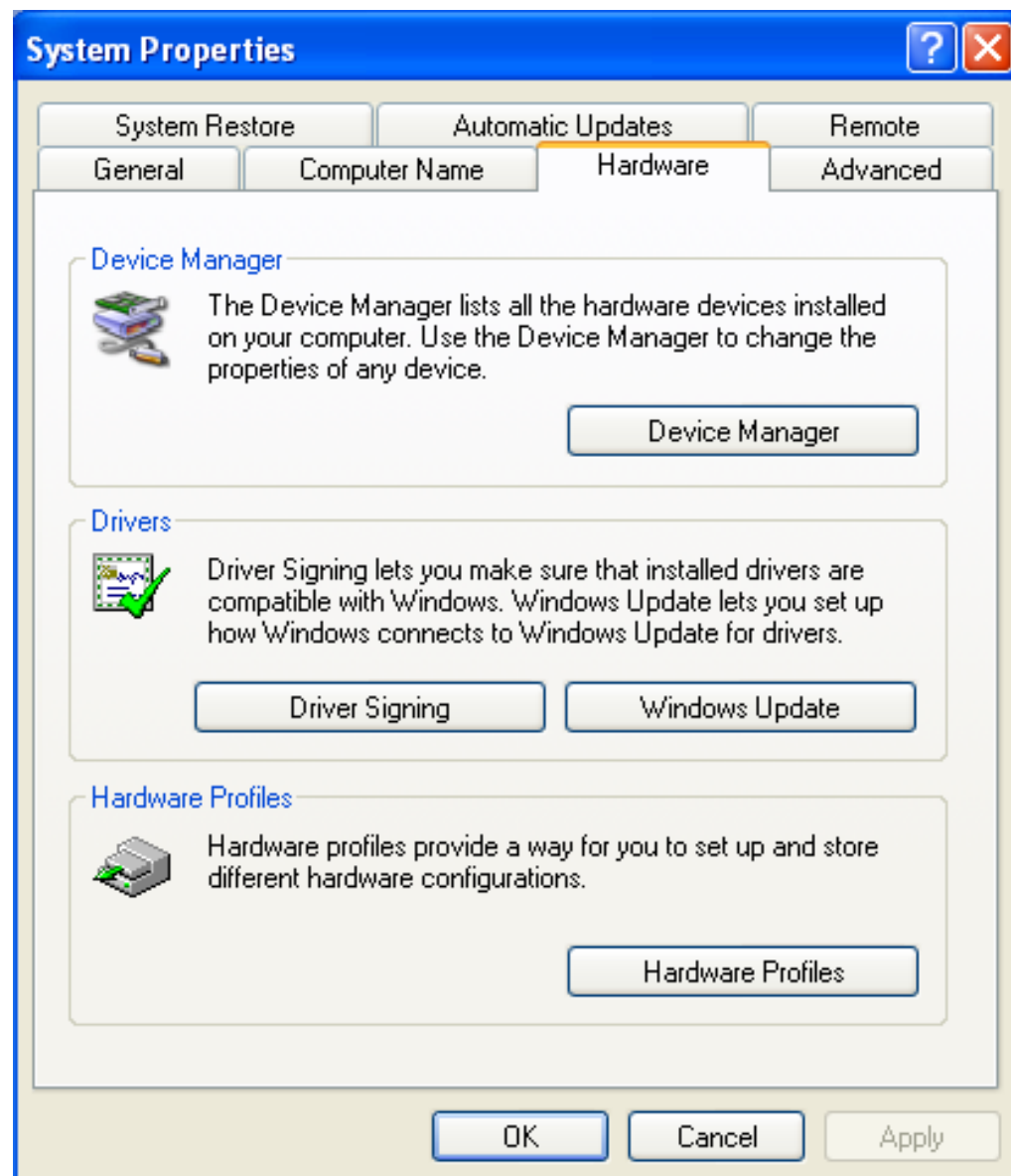
### 3.1.3. Click "Device Manager"：



### 3.1.4.Click"Port(COM and LPT)"to check the port number：

As shown in the image above,the port number is 4. When you use ConLAS for the
first time, you need to input number 4 in the select box and the port number will
be remembered. when you use ConLAS again in the same computer, the port
number is the default.

3.2. Start-up Screen



The port is not opened, indicator light is red, the status line shows "connection
Status：OFF；source state：OFF".

3.3．Moudle connection
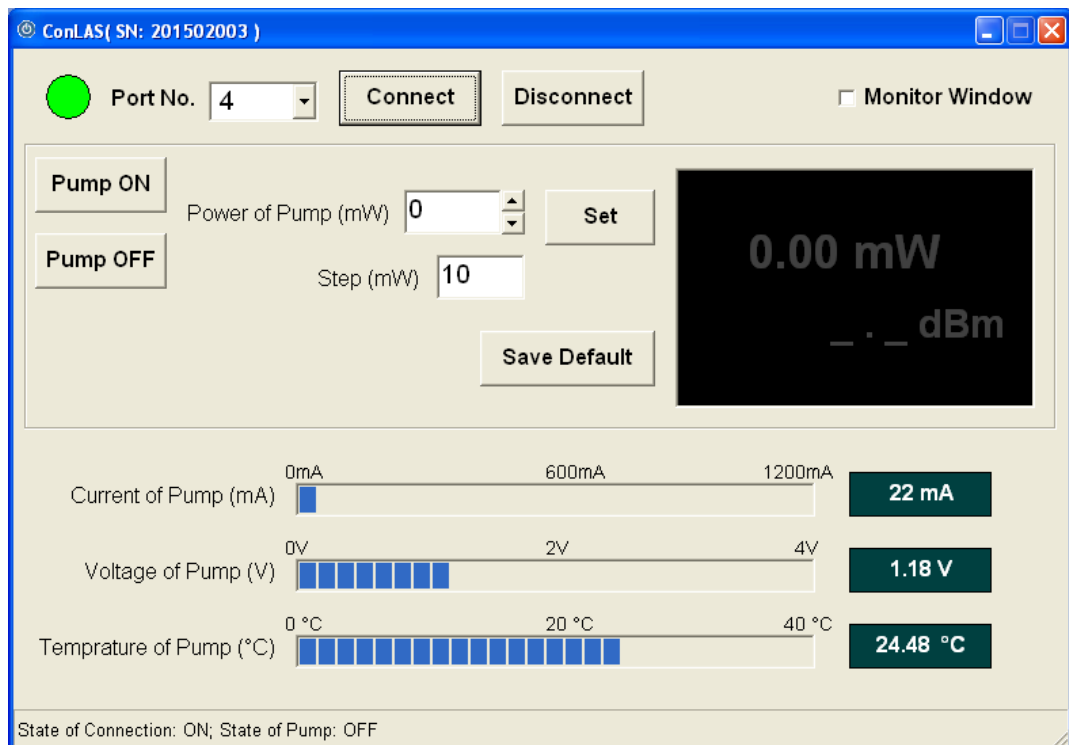
Please click "Connect"to make sure the connection is successful between computer and module. If the connection is successful, the indicator light is green, the titlebar shows serial numbers ,the connection status shows ON as well as the Pump Current, Pump Voltage and Pump Temperature will be shown.

If there is no electricity or setting wrong port number or improper connection, the software"ConLAS" will give you the tip as follow: please check out whether something is wrong with the electricity or port number or connecting line.
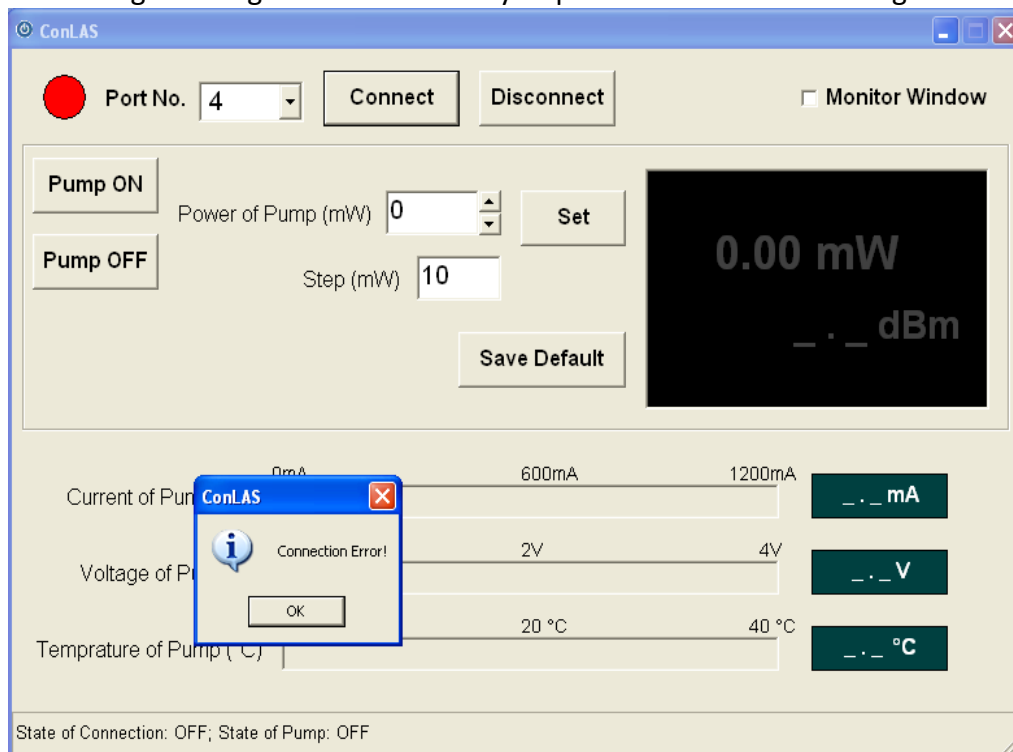


## 3.4. Source on
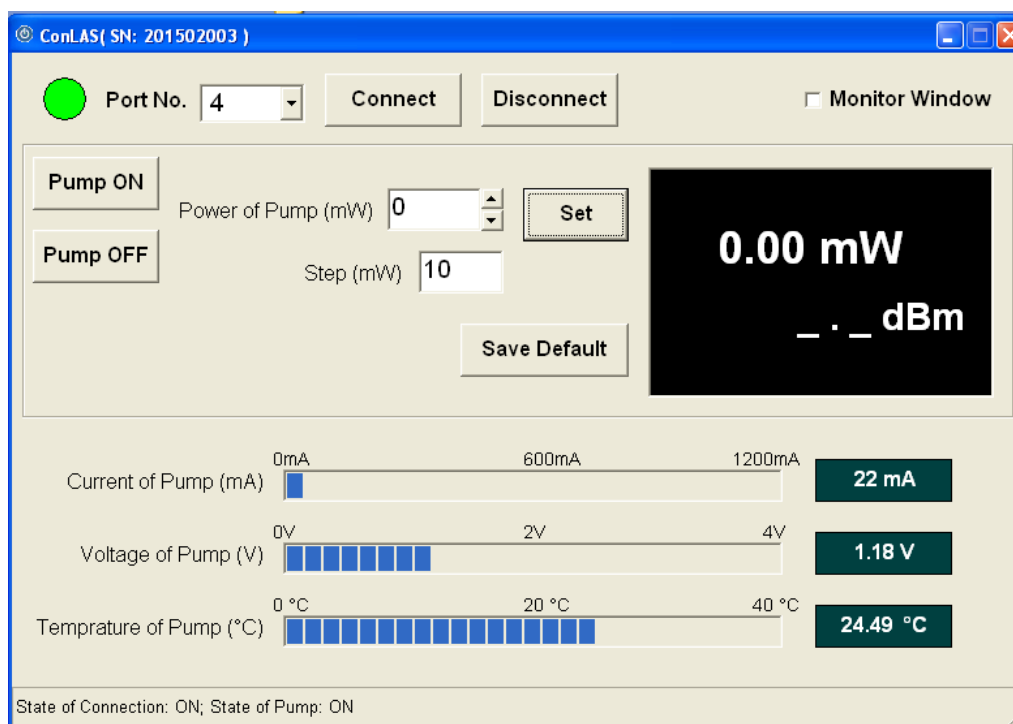
When it is connected successfully between the software"ConLAS" and the module,please click "Pump ON" to make sure the module is working. Then,the area which shows the power is bright, regarding to the connection status and the source status, both of them show "ON".

If you have already saved the power value before,the output power value is the default.

## 3.5. Power setting
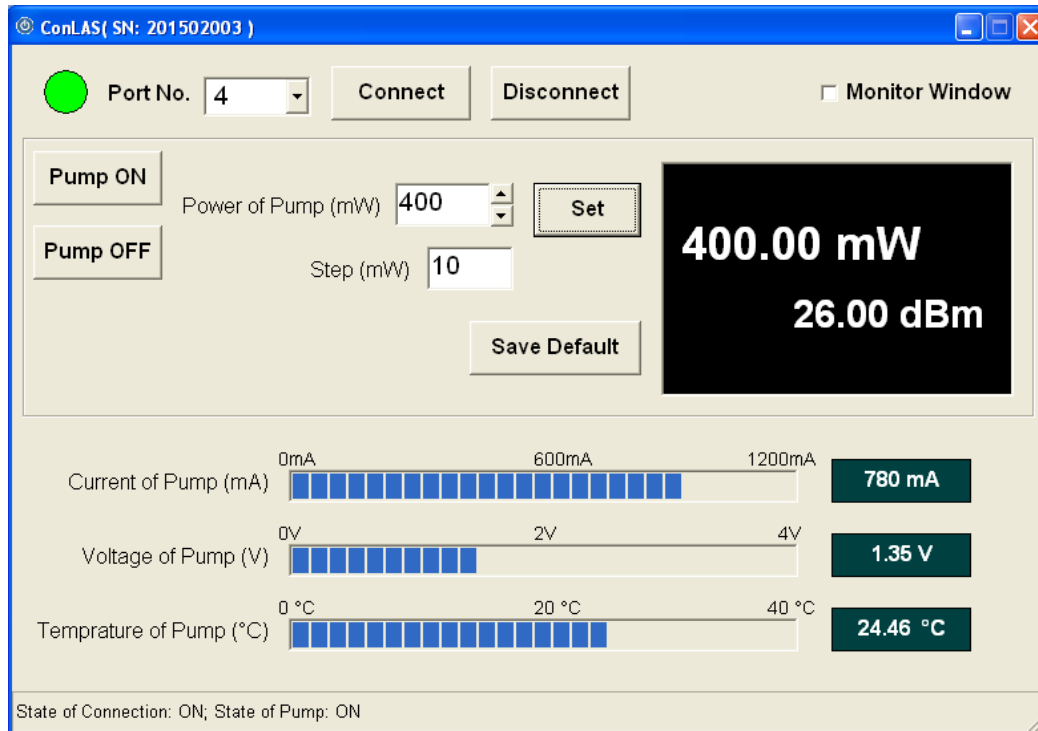


You can set the power pump value in the input box after the laser being turned on, you can also change the single step adjustment precision through inputting the value in the box. When you finish setting up all the parameters, the power value and all the parameters of Pump will be shown in the interface of ConLAS.
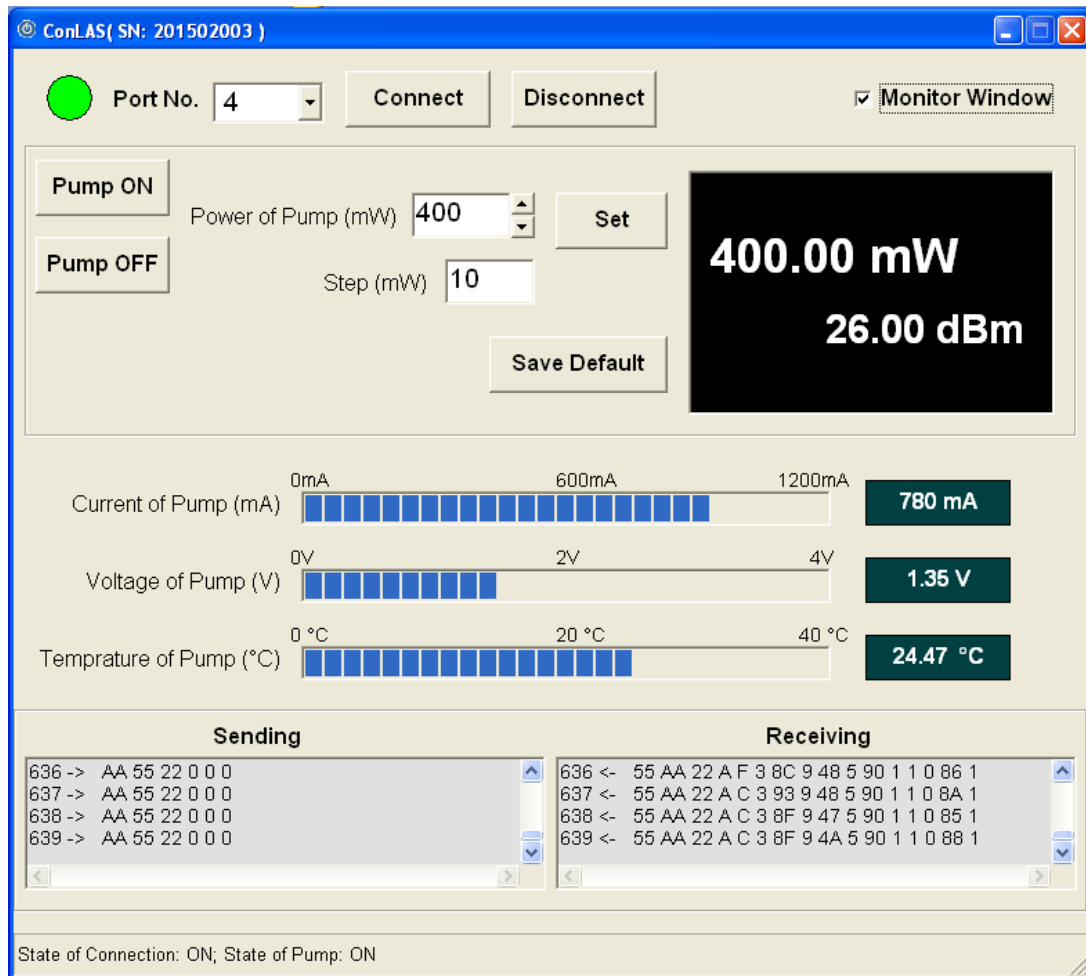
## 3.6.Current value saving
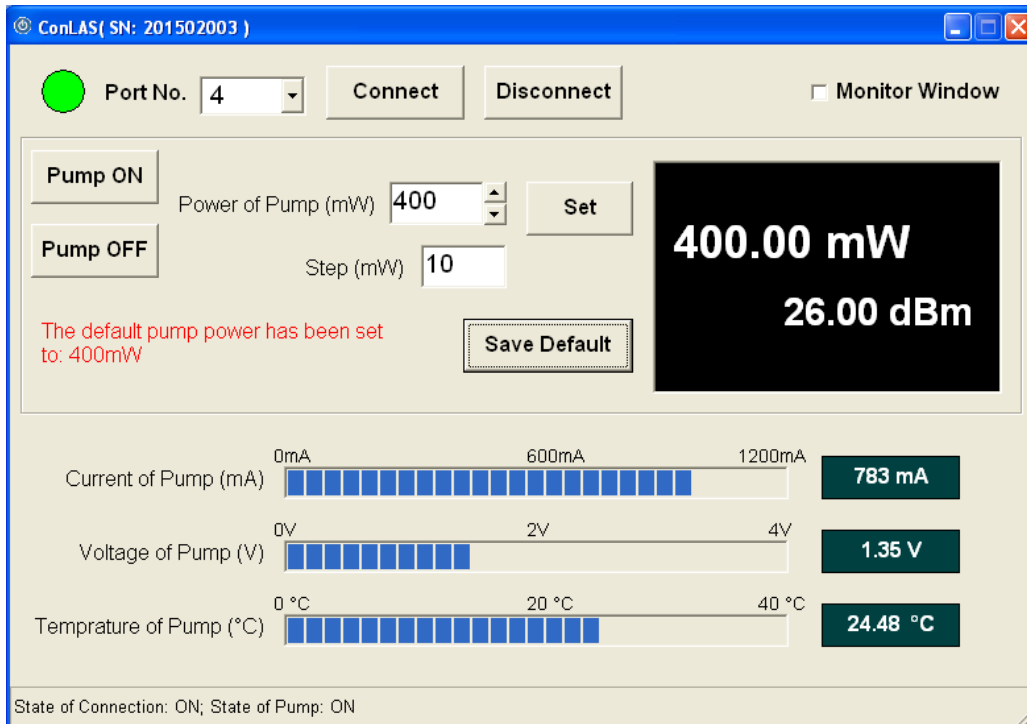
Click the button"Save Default",the current output power value will be saved, when you turn on the laser again, the current output power value is the default.

3.7. Source off
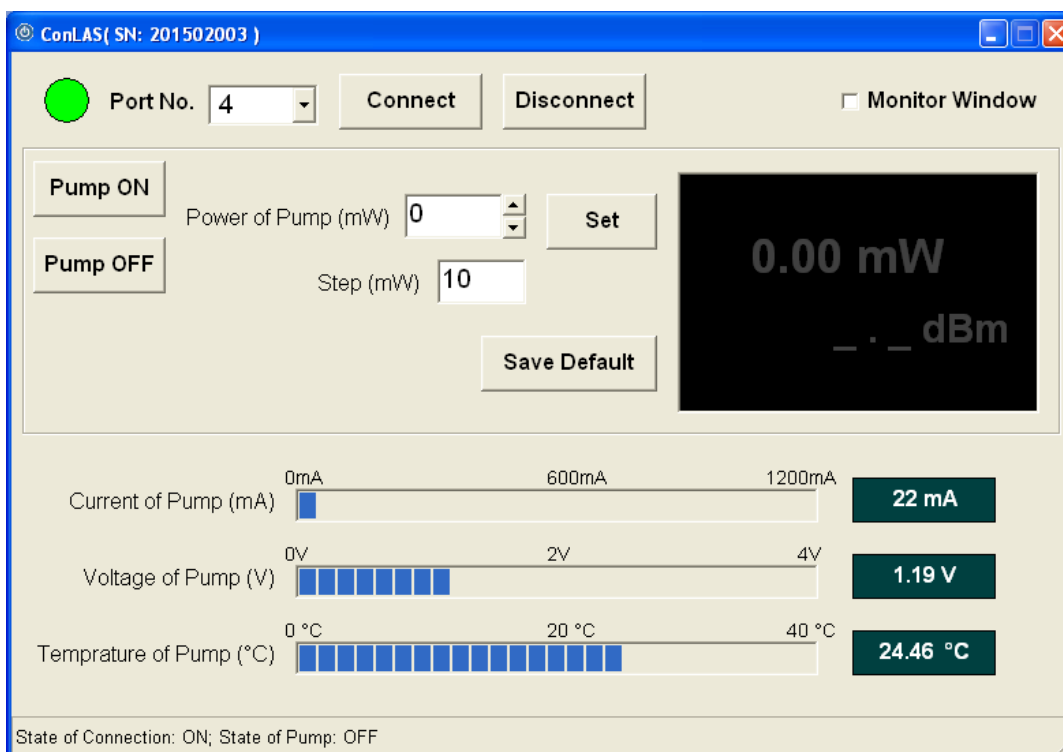


Click the button"Pump OFF", the output power value is 0, as well as the area which shows the power is grey and the souce status shows"OFF".

3.8. Window monitoring

As to the users who develop the software by themselves, you can open"window monitoring" at the bottom of the interface, which is convenient to develop and debug by showing the hexadecimal numbers.