



Graphical User Interface

Manual

The Pure Photonics Graphical User Interface (GUI) is an utility to communicate with our devices over a serial port. It includes commands to address all standardized registers and also specific commands to access Pure Photonics' specific functionality.

This manual describes the GUI with a focus on the use with Pure Photonics lasers.





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2. Software usage

The software can be downloaded from the Pure Photonics website (purephotonics.com) under the support section.

No installation is required. The unzipped directory can be placed at any location.

The software is run by double clicking the 'Pure Photonics GUI.exe' file.

This manual is based on the software version 2024.08.21. This version is written in the Python 3 language and operates with the Windows 11 operating system and earlier versions. This version does not work with a Linux operating system.

In addition, this version works with COM ports with numbers larger than 9 and it can handle both textual com-ports (such as 'com8') and numbered ones (e.g. 8).

The software has a built in feature to check for updates upon start-up. In case a more recent update is available it will be shown on the connection page. You can also manually check at https://purephotonics.com/GUI_VERSION_STATUS . If a new version is available the user will need to manually download this from https://purephotonics.com/GUI_VERSION_STATUS . If a new version is available the user will need to manually download this from https://purephotonics.com/GUI_VERSION_STATUS . If a new version is available the user will need to manually download this from https://purephotonics.com/GUI_VERSION_STATUS . If a new version is available the user will need to manually download this from https://purephotonics.com/support/ under 'software' and 'GUI'.



3. Connection

After opening the program it opens up with a **connection** tab and 2 supplemental tabs (**Graph** and **Communication**).

Upon opening, the program will communicate with the Pure Photonics website (purephotonics.com) and will check if the currently used software version is the latest version. The findings are listed under the status-line. In case you are using an older version, you can download the latest version from the website under the Support section (Software, GUI). The downloaded contents can be replaced in the location where the previous version was places or you can just replace the .exe file.

To establish a connection, the serial port of the device needs to be entered. Either as COMxx or jus the COM port number (i.e. COM5 and 5 are both valid entries). If you are connecting to a CoBrite product (CoBrite, DX or DX4) then the CoBrite check box needs to be selected.

Rure Photonics Graphical User Interface	- o x
Connection	Graph Communication
Enter the port to which the device is connected and press Connect	0.04 -
Input port COM1 CoBrite	0.02 -
Connect	0.00 -
	-0.02 -
Status: GUI version: Running the latest GUI version	-0.04 -

After pressing *Connect*, the program tries to establish a connection with the product and retrieve relevant information. In case no connection can be made, the program will say so. Causes can be that the product is not powered or that the serial port is already used by a different program.

Pare Photonics Graphical User Interface	
2024.08.21	
Connection	Graph Communication
Enter the port to which the device is connected and press Connect	
	0.04
Input port COM1	
inpar port Commission Commission	0.02 -
Connect	
	0.00 -
	-0.02 -
Serial Connection Not Established. Issue with the device	
	-0.04
Status:	-0.04 -0.02 0.00 0.02 0.04
	★ ← > + Q 코 B
	10 Minutes
	@ VariableD
	C Variable1
	C Variable2
	C Variable3
	RESET



When the serial connection can be established, the session counter will start and the program will communicate with the device. It will download relevant information and check on capabilities and limits of the device. Typically this takes 15 seconds or less. However, in case of an existing clean jump calibration, this may take a bit longer.

Pure Photonics Graphical User Intenface	- o ×
Connection	Graph Communication
Press disconnect to release device connection	0.04 -
Input port COM1 Not CoBrite	0.02 -
Disconnect	0.00 -
Connection active = 0 seconds	-9.02 -
	-0.04 -
Status Message: Connected to port COM1	-0.04 -0.02 0.00 0.02 0.04
	@ Variable0
	C Variable1 C Variable2
	C Variable3

After the connection is established and all the data is downloaded, the session counter will start to increment and the graph will start to get populated. The input port conditions are listed on the top.

In case a Pure Photonics device is detected, the firmware version (timestamp) is compared with what is available on the Pure Photonics website. If a newer version is available, this is listed. Note that if you are using a special firmware version, it may not matter that there is a newer version on the web.

Connection Settings DeviceID FW Upgrade CleanJump Press disconnect to release device connection Input port OM1 Not CoBrite Input port Disconnect Input port Disconnect Input port OM1 Not CoBrite Input port OM1 Not CoBrite Input port OM1 Not CoBrite Input port Input port OM1 Not CoBrite Input port Input port Input port Input port Input port Inpu	Representation Provided Provided User Interface	
Connection settings Device(I) FW Upgrade CleanJump CL Graph Communication Press disconnect to release device connection Press disconnect COM1 Not CoBrite Connection Connection Connection Connection Connection	v004.08.21	au Cush a
Press disconnect to release device connection -18.25 Input port COM1 Not CoBrite -18.25	Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication
Input port COM1 Not CoBrite -18.30 - -18.75 - 	Press disconnect to release device connection	-18.25
-18.35 - 	Input port COM1 Not CoBrite	-18.50 -
	Disconnect	-18.75 -
Connection active = 18 seconds -19.25 -		-19.00
	Connection active = 18 seconds	-19.50 -
-19.75 -		-19.75 -
Status: -20.00 - 20 40 60 80 10	Status: Not the latest firmware version; Latest version: 31377; Documented cha	-20.00 20 40 60 80 100
nges: (홍수) (우) (고 (요)	nges:	
Coutput power -20.00 dBm		@ Output power -20.00 dBm
C Ambient Temperature 27.56 °C		C Ambient Temperature 27.56 °C
C Laser Temperature 49.57 °C		C Laser Temperature 48.97 °C
Laser Current 0000 mA		Easer Current 0.00 mA

If the connection is not needed anymore the *Disconnect* button can be pressed.

Dependent on the device type that is detected, several other tabs are now accessible.



4. Device Information

The basic device information is listed in the **DeviceID** tab. Information on some of the grid features, serial number, partnumber, firmware version and device capabilities are all listed in this table.

lection betailigs bevicen	D PW opgrade cleandinp	CEI Graph Communication
Serial Number	PP70DJ032	-18.00
Partnumber	PPCL700	-10.00
Release	3.0.0:FW 7.0.4:AS C1:T	-18.25 -
Min power (dBm)	6.00	
Max power (dBm)	13.50	-18.50
Min frequency (THz)	191,500	=18.75 -
Max frequency (THz)	196.250	
Grid (GHz)	50.0	-19.00 -
Channel	1	
FTF (MHz)	0	-19.25 -
Firmware	7.0.4	-19.50 -
Timestamp	35613	
CleanSweepAllowed	1	-19.75 -
CleanSweepRange	51	
CleanJumpAllowed	1	-20.00 + 20 40 60 80 10
CleanScanAllowed	0	
OIF 1.3 Compatible	True	# < > + Q 至 四
		10 Mondes
		6 Dutaut power -20.00 dlim
		C Ambient Temperature 27.96 °C
		C Laser Temperature 49.98 °C
		C Leser Current 0.00 mA
		RESET



5. Device Setting

In the **Settings** tab the user can control the basic settings for the laser and turn the laser on and off. Dependent on the device that is detected, several lines are show, with the current value and the device capabilities. It also provides an entry box for most of these values where the current setting can be changed. Note that some entries may be removed dependent on the device condition (e.g. power can't be changed when whispermode is enabled).

Pure Photonics Graphical User Interface			- O X
v2024.08.21			
Connection Settings DeviceID F	FW Upgrade CleanJump		CLI Graph Communication
Connection Settings: DeviceID F Power (dBm) Frequency (THz) FTF (GHz) Clean Sweep Range (GHz) Clean Sweep Speed (GHz/tec) status:	W Upgrade CleanJump Min Value Mar Value 13.50 6.00 13.50 191.50 191.500 192.520 200 0.000 30.000 200 0.000 20.000 10.000 0.000 20.000 Update Enable	Current 13,50 191,500 0,000 20 10,000	CLI Graph Communication
		StatusF (0x20) 111000000110010 StatusW(0x21) 1110030100110111 Pending (0x00) 00000000	Image: Second

Changing the value in some of the entry boxes and then pressing *Update*, will update the value on the device (as reflected in the 'Current' column).

Rure Photonics Graphical User Interface			- O X
v3524.08.21			
Connection Settings DeviceID F	FW Upgrade CleanJump		CLI Graph Communication
Power (dBm) Frequency (THz) FFT (GHz) Clean Sweep Range (GHz) Clean Sweep Speed (GHz)sec) status:	Min Volae Mar Vola 13.50 € 00 13.50 191500 191500 196250 12.001 3.000 30.000 20 0 51 10.000 0.000 20.000 Update Enable	e Current 13.50) 191.500 12.000 20 10.000 Standf (bc0) 11000000110000	-18.00 -18.03 -18.05 -18.05 -18.05 -19.05 -1
		111000000110010 StatusW (0x21) 111001010110111 Pending (0x00) 00000000	1918ann



To turn on the laser, press the *Enable* button. While the laser is enabling, a *Stop* button is available. The status line will show that the laser is enabling and the Pending flags in the lower right will show one or more pending flags raised. Once all flags have dropped, the laser will shift to ON state.

The graph on the right will also update and you will see the power increase.

Service Protonecs Coophical User Intenface	- U X	Pare Photonics Graphical User Interface	- u x
Connection Settings DeviceID EW Lingrade Clean lump	CLI Graph Communication	Connection Settings DeviceID EW Upgrade Clean lump	CLI Graph Communication
Connection Settings DeviceIU FW Upgrade CleanJump Power (dBm) Min Value Max Value Current Prequency (THz) 13.50 60.00 13.50 FFF (GHz) 191.500 196.250 191.500 Chean Sweep Range (GHz) 20 0 51 20 Clean Sweep Speed (GHz) 00.000 20.000 10.000 1000 Update Activating. Step Status: Laser status pending. Turning on	LL I Grapa Communication -18.00 -18.23 -18.23 -18.23 -18.23 -18.23 -18.23 -19.30 -19.30 -19.30 -19.73 -19.00 -19.73 -19.00 -19.75 -19.00 -19.75 -19.00 -19.75 -19.00 -19.75 -19.00 -19.75 -19.00 -19.75 -10.75 -10.	Connection Settings Device(U) FVU Upgrate CleanJump Min Value Max Value Power (Bm) Frequency (FHz) PTF (Grit) Clean Sweep Speed (GHz) Clean Sweep Speed (GHz) Status: Laser status pending. Turning on	CLI Graph Communication Current 13.500 20 10.000 20 5- 10- -3- -3- -30- -3- -30- -3
10.0019 (1000) 1110000001100 000000010111 1110101011111 Polosya 0000000	● ●	50 19 19 19 19 19	Auf (0-00) 000000010101 000000010111 000000010111 00000001011 00000001 00000001 00000001 10000000 10000000 10000000 1000000 1000000 10000 100000 10000 10000 100000 10000 10000 10000 10000 10000 10
Rure Photonics Graphical User Interface	- O X		
values:	OLI Cremb Communication		
Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication		
Min Value Max Value Current Power (dBm) 13.50 10.30 13.50 Frequency (THz) 191.500 196.250 191.500 PFF (GHz) 200	20- 5- 8- -3- -10- -13-		
Status: Pending flags dropped. Laser is on.	-20 25 50 75 100 125 150 175 200		
80-048 (bio.20) 19 190000001 19 19 19 190000001 19 11 19 190000001 19 11 19 000000			



After the laser is on, the *Enable Whisper* button will show for Pure Photonics lasers. Pressing this button will enable the whispermode. Be aware that for the PPCL500 and the PPCL600, the pending flag will drop before the unit is stabilized in the dither mode. Some extra time will need to be added before making this switch. Alternatively the PPCL600/500 product can be configured to use a 'sensor'-type pending flag behavior with a later drop.

Pure Photonics Graphical User Interface			
2024.08.21			
Connection Settings DeviceID FW L	pgrade CleanJump		CLI Graph Communication
Power (dBm) Frequency (THz) FTF (GHz) 1	Min Value Max Value 6.00 13.50 191.500 196.250 2.000 -30.000 30.000	Current 13.50 191.500 12.000	20 -
Clean Sweep Range (GHz) Clean Sweep Speed (GHz/sec)	20 0 51 0.000 0.000 20.000	20 10.000	5 -
u	odate		0-
Disab	sable e Whisper		-10 -
Enable	lleanSweep		-15 -
Status; Turned on whispermode,			-20 0 25 50 75 100 125 150 175 200
			▲ < → + Q 芝 E
		StatusF (0x20) 101000000110010 StatusW (0x21) 101000000110111 Pending (0x00) 00000000	⁶ Oxful power 113.88m ⁷ Antikert Tempenhare 25.83で ⁷ Luser Tempenhare 45.99で ⁷ Luser Tempenhare 115.80mA <u>KSIT</u>

Once the device whispermode is enabled, the *Enable CleanSweep* button will show (only for PPCL700/550). Pressing this will start the Clean Sweep. A *Disable Clean Sweep* button will show to stop the clean sweep.

Pure Photonics Graphical User Interface			– o x
v2024.08.21			
Connection Settings DeviceID F	W Upgrade CleanJump		CLI Graph Communication
Power (dBm)	Min Value Max Valu 13.50 6.00 13.50	e Current 13.50	
Frequency (THz) FTF (GHz)	191.500 196.250 12.000 -30.000 30.000	191.500 12.000	20 -
Clean Sweep Range (GHz) Clean Sweep Speed (GHz/sec)	20 0 51 10.000 0.000 20.000	20 10.000	5 -
	Update		0-
	Disable		-5.
Disc	able CleanSweep		-10 -
Status: enabled clean sweep			-20 0 25 50 75 100 125 150 175 200
		StatusF (0x20) 101000000110010 StatusW (0x21) 101000000110111 Pending (0x00) 00000000	Image: Comparison Notice Notice



6. Firmware upgrade

If a firmware upgrade is needed, the program will set the baudrate of the device higher and will upload the requested firmware (ray file) to the unit. To start the firmware upgrade a valid ray file needs to be made available to the program and the laser needs to be off.

To select a ray file, press the *Select Ray File* button. This will open up a file dialog, looking for a ray file. Select the right ray file and press OK. The file will be loaded to the program and checked for consistency.

Pure Photonics Graphical User Interface	- o x
Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication
FW Upgrade Process replaces the current firmware for a new one Ensure supply voltage is stable and be patient	20 -
Select ray file	5 -
Ray File Selected: None	0-
	-5-
	-10 -
	Copput power 1122 88m C Antilent Temperature 2000 °C C Loss Temperature 4587 °C C Loss Temperature 19590 mA
	NEST

After the file is uploaded the path will be shown in the window. If the device is off, the *Upgrade* button will show. Pressing this button will start the upgrade. This upgrade should take 2-3 minutes, but may take up to 30 minutes for a CoBrite and up to 5-10 minutes for a poorly configured COM port (latency setting must be changed to 1ms).

Reprief Plane Photonics Graphical User Interface	– o ×
Conception Cattlena Device ID FM Unstante Class town	OLI Crank Communication
Connection Settings DeviceID FW Upgrade CleanJump FW Upgrade Process replaces the current firmware for a new one Ensure supply voltage is stable and be patient Setter ray file Rey File Selected: S:/Ray files/PPCL700/PPCL700_TS35613_BASE.ray Upgrade	CLI Graph Communication
	P Oxplat prior Control Table Control Table Control Table Control Table Control Table Control Control Table Control Contro Control Control Control Control



During the upgrade the program will track the completion rate of the upgrade up to 100%.

Report Photonics Graphical User Interface		🔛 Pare Photonics Graphical User Interface	– O X.
v2024.08.21		v2024.08.21	
Connection Settings DeviceID FW Upgrade	CLI Graph Communication	Connection Settings DeviceID FW Upgrade	CLI Graph Communication
FW Upgrade Process replaces the current firmware for a new one Ensure supply voltage is stable and be patient	2.0	FW Upgrade Process replaces the current firmware for a new one Ensure supply voltage is stable and be patient	2.0
Progress: 6 percent	1.0 -	Progress: 100 percent	10-
Stop	0.0	Stop	0.0
	-0.5 -		-0.5 - -1.0 -
	² Odgi prev ² Odgi prev ² Andra Tempenture ² Law Tempenture ² Law Tempenture ² Odgi C ² Law Tempenture ² Law		
	← Lose Current 0.00 mA 		C Lase Correct 0.02 mA

Upon completion the *Stop* button disappears and the *Upgrade* button appears. The graph starts to update itself again. We recommend to power cycle the laser (and the program) after firmware upgrades.





7. Clean Jump (PPCL700 only)

The clean jump feature allows the frequency to jump to pre-defined setpoints in whispermode. Upon the connection the device will scan its memory and output all the calibrated setpoints. Those setpoints are listed as channels. If more than 10 channels are found, there will be a pull-down box that allows you to select the first channel # to display.

Pure Photonics Graphical User Interface		- O X
2014-0821 Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communicat	ion
Ammetion Settings Leverell J FW Upgrade Ueal.ump kumber of channels 1 Download again Verified number of channels 4 channel 0 1915 500000 channel 1 1915 500000 channel 3 191 650000	-18.00 -18.73 -18.73 -19.90 -19.75 -19.90 -19.75 -20.90 -20.00 -2	on
	Oppoper Oppoper Oppoper Canical tempone Case Tempone Case Tempone Case Tempone	40 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

In case you want to download the setpoints again, press the *Download Again* button. The device will now output all the setpoints. During the download the status bar will show downloading. And after completion the found channels will be displayed.

Reve Photonics Graphical User Interface	– o x
v0004.08.21	
Connection Settings DeviceID FW Upgrade CleanJump Number of channels Download again Downloading	CLI Graph Communication
	Image: Second power Secon



For devices that have no calibration loaded or that need a new calibration, a calibration can be started by pressing the *Calibrate* button. It will then calibrate for the number of channels listed in the entry box. During the calibration it will display at which channel it is

		V2024.00.21			
nnection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication	Connection Settings	s DeviceID FW Upgrade CleanJump	CLI Graph Communication	
op Calibrate	-18.00	Stop Calibrate]	-18.00	
art Calibrate	-18.25 -	Calibrating channel :	2/4	-18.25 -	
	-18.50 -			-18.50 -	
	-18.75 -			-18.75 -	
	-19.00 -			-19.00 -	
	-19.25 -			-19.25 -	
	-19.50 -			-19.50 -	
	-19.75 -			-19.75 -	
	-20.00 0 20 40 60 80 100			-20.00 0 20 40 60	80 100
				<u> </u>	
	P Output power -20.00 dBm			P Output power -20.00 dBm	
	C Ambient Temperature 30.16 °C			C Ambient Temperature 30.16 °C	
	C Laser Temperature S005 °C			C Laser Temperature 5005 °C	
	- Line Contract			- Land Contract	

Upon completion the channels are downloaded and displayed.



A jump to one of the channels can be initated by setting the channel in the lower entry box and then pressing the *Jump* button.

📓 Pure Photonics Graphical User Interface	– O X
v2624.08.21	
Connection Settings DeviceID FW Upgrade CleanJump Download again Verified number of channels 4	CLI Graph Communication
channel 0 191.500000 channel 1 191.550000 channel 2 191.600000 channel 3 191.650000	5-
jump to channel 2	

Note that the automatic calibration follows a grid pattern defined by the First Channel Frequency (channel 0) and then each channel offset by the grid parameter. The first channel frequency can be set in the **Settings** tab. The Grid value (in units of 0.1GHz) can be set with the **CLI** tab.



8. Graphing of data

The **Graph** tab plots the data that is being collected. The graphing is independent from the actual data collection which is being stored in logfiles (in the logfiles directory).

Pure Photonics Graphical User Interface	- o x
value and a state of the state	and Courts a second second
Connection Settings DeviceID FW Upgrade CleanJump Download again Verified number of channels 4 channel 1 191550000 channel 2 191650000 channel 3 191650000	CLI Graph Communication
jump to channel 2	-13 -20 0 50 100 100 200 250 300

By clicking a different radio button, a different variable is being plotted.

v004.08.21	
Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication
Download again	34
Verified number of channels 4	
channel 0 191.500000	33
channel 1 191.550000 channel 2 191.600000	32 -
channel 3 191.650000	31 -
	30
jump to channel 2	29 0 50 100 150 200 250 300
	C Output power 13.48 dBm
	Ambient Temperature 32.03 °C
	C Laser Temperature 48.98 °C
	Laser Current RESET

For longer measurements, the timeframe of the display can be selected. This allows to zoom into the data in the time domain. Even though data is discarded for plotting purpose, the full data set remains available for using different timeframes.

04.08.21	
onnection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication
Download again	35
erified number of channels 4	34 -
channel 0 191.500000 channel 1 191.550000	
channel 2 191.600000 channel 3 191.650000	33 -
	32 -
	31 -
Imp to channel 2	30 40 60 80 100 120 140 160
	C Output power 13.49 dBm
	Ambient Temperature 32.43 °C Later Temperature 50.02 °C
	C Laser Current 540.30 mA



9. Command packets

The **Communication** tab provides a snapshot of the last 10 commands sent to and received from the module (taken when the tab is selected). It breaks down each packet of 4 bytes into the relevant components.

Pure Photonics Graphical User Interface						×
v2024.08.21						
Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Commun	nication				
	Transmit to more	dule	Receive	from r	nodule	e
Developed apple	Packet Checksum Status Ra	egister Data	Packat CS	Status Re	igister E	Data
Download again	0xD0580000 0xD 0x0	0x58 0x000	0xF6580004 0xF	0x2 (Dx58	4
Verified number of channels 4	0x20570000 0x2 0x0	0x57 0x0000	0x06570004 0x0	0x2 (0x57 0x	4
	0x20570000 0x2 0x0	0.57 0.0000	0x06570004 0x0	0x2 (0x57 0x	4
channel 0 191.500000	0x00000000 0x0 0x0 0	0x00 0x0000	0x54000010 0x3	0+0	5×00	16
channel 2 191.60000	0x60420000 0x6 0x0	0x42 0	0x74420544 0x7	0.0	0:42	1348
channel 3 191.650000	0x30210000 0x3 0x0	0x21 0x0000	0xA4214007 0xA	0.0	bi21 0k	(A007 40967
	0x20200000 0x2 0x0	0x20 0x000	0x84204002 0x8	0+0	0x20 0x	A002 6962
	0+00000000 0+0 0+0	0x00 0x0000	0x54000010 0x5	0+0	b-00 ^{DN}	16
	0x10320000 0x1 0x0	0x32 0x0000	0x04320008 0x2	0.0	0x32 ^{0x}	0003
jump to channel 2						



10. Command Line Interface

The **CLI** tab allows for sending individual commands to the device and monitoring the response. One needs to select the register, the data value to be sent and if this is a read or write operation.

After pressing *Send*, the packet is created, send to the module, a response is received and decoded. The associated data is displayed, including the data-portion of the response, the error code from the response packet (0=no error; 1=pending; 2=AEA; 3=error) and the sent and received packet of 4 bytes.

Reference Protonics Graphical User Interface		- o ×	Reprint Photomics Graphical User Interface		- O X
v2024.08.21			v2024.08.21		
Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communication		Connection Settings DeviceID FW Upgrade CleanJump	CLI Graph Communical	tion
Download again Verified number of channels 4 channel 0 191.500000 channel 1 191.550000	Register Data △ □ 0 Send Return message	Read \ Write	Download again Verified number of channels 4 channel 0 191.500000 channel 1 191.550000	Register Dat △□2FF 300 Se Return message	a Read \ Write
channel 2 191.600000			channel 2 191.600000		
channel 3 191.650000	Error message	0	channel 3 191.650000	Error message	3
	Bytes sent Bytes received	0x40620000 0x04620000		Bytes sent Bytes received	0xb062012c 0x27620100
jump to channel 2			jump to channel 2		



11. Integrated Coherent Modulator Controller

In case the program detects an ICR control board (PPEB075 or PPEB076), a special tab is opened. Only the **Device ID** tab and the **ICR Control Board** tab are opened.

Pure Photonics Graphical User Interface 2004 (00.21)	- 🗆 X
onnection DeviceID ICR Control Board	CLI Graph Communication
ress disconnect to release device connection	0.5
Input port COM1 Not CoBrite	0.4 -
Disconnect	0.3 -
	0.2 -
Connection active = 15 seconds	0.1
Status Message: Connected to port COM5	
	Photodiode Xin 0.00 mA Distriction Xin 0.00 mA
	C Photodiode XQn 0.00 mA
	Photodiode XQp 0.00 mA RESET

The ICR Control Board tab allows the user to control all the functions of that board.

- Enable and disable the TIA supplies by clicking the check boxes. The current is displayed.
- Setting the VOA voltage
- Reading the photodiode currents
- Setting the Manual Gain Control and the Automatic Gain Control and controlling the associated Gain and Output Adjust voltages.
- Getting the peak detection values
- Setting the shutdown toggles

The graph will display the photodiode currents versus time (the control in the upper right is used to select which photodiode is in position 1).





12. Analog Array

In case an analog array is detected (PPAAxxx) the Analog Array tab is shown.

More information to follow.