BAROSTIM

Programming Guide IPG Model 2104 PGM Model 9010







ABOUT THIS DOCUMENT

This document is a portion of the Instructions for Use (IFU) for the Barostim NEO2 System, Model 2104. The full IFU consists of:

System Overview	900121-001
Surgical Procedures	900121-002
Programming	900121-003
Magnetic Resonance Imaging (MRI)	900121-004
Patient Instructions	900121-005

IFU documents are available at www.cvrx.com/ifu





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1 System Set Up



HOW SUPPLIED



Programmer Interface Model 9010 with USB cable.

The Programmer Software is installed on a computer equipped with a USB interface

SYSTEM INSTALLATION AND MAINTENANCE

There are no Installation, Commissioning or Modifications required for the proper use of the Programmer System. No installation measurements are required. Regular maintenance is also not required.

CLEANING THE PROGRAMMER SYSTEM

If the Programmer System requires cleaning, clean the system components with a soft cloth dampened with water. Do not allow pooling or ingress of liquid into the Programmer Interface enclosure.

NAVIGATING

Use the pointing device to navigate the Programmer Software. In this document, the word "click" indicates depressing the left pointing device button to perform the required action.

LANGUAGE AND REGION SELECTION

The Programmer System can be configured to operate in one of several language and regionalization configurations. To change the language, open the Language and Region Selector by clicking on the Windows Start icon in the lower left corner of the screen and selecting **Language and Region Selector** from the Start menu. A list of items made up of language followed by country or region is displayed,

Scroll through the list to find the desired setting, click the row containing the setting, and click **Switch to Selection**. If the selected language provides more than one keyboard configuration, select the desired default configuration in the dialog and click **OK**. If the selected language differs from the current language, the PC will reboot.





MULTILANGUAGE KEYBOARD

In some languages, the keyboard layout in use may be different than what is shown on the laptop keys. The current keyboard layout is denoted by a two-letter code on the application status bar. The keyboard layout can be temporarily changed by pressing and holding the left Alt key followed by pressing one of the Shift keys. To permanently change the keyboard layout, change the default keyboard layout using the **Language** and **Region Selector**.



An on-screen keyboard can be produced by clicking the icon whenever it is visible. This keyboard can also be repositioned on the screen to aid in data entry.

PROGRAMMER SYSTEM SET UP

- Inspect the Programmer Interface, computer and cables prior to each use. Notify CVRx or your CVRx representative of any items that need replacement.
- If the programmer computer has been stored for an extended period without being charged, it is recommended to connect the recharging cable prior to turning on the computer.

Note: Avoid letting the battery discharge below 20%.

- Insert the USB I/O cable connector into the USB I/O port on the Programmer Interface by pushing the connector into the port until it clicks into place. Make sure the connection is secure.
- Insert the other end of the USB I/O cable into a USB port on the computer connecting the Programmer Interface to the computer. Make sure the connection is secure.
- Confirm that Programmer Interface is connected correctly by checking to see if the green light on the Programmer Interface is lit.
- Place the Programmer Interface in its upright position with no obstructions between the Programmer Interface and the IPG. Telemetry performance is best when the Programmer Interface front or back side label is facing the IPG and is a distance of 2 meters or less from the IPG.







USER LOGIN

After powering up the programmer you will be requested to login. Click the CVRxUser and enter password "cvrx".

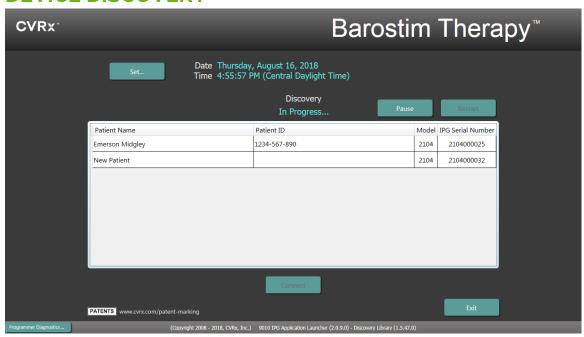


STARTING THE APPLICATION



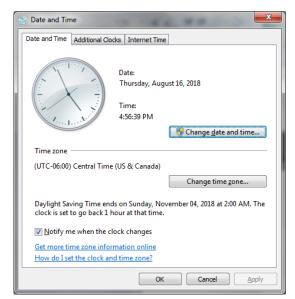
Double-click the **CVRx** icon labeled **CVRx Launcher** to start the software application.

DEVICE DISCOVERY



When the Device Discovery window appears, verify that the system time, date, and time zone on the programmer is correct. If not, click the **Set...** button to correct the time.

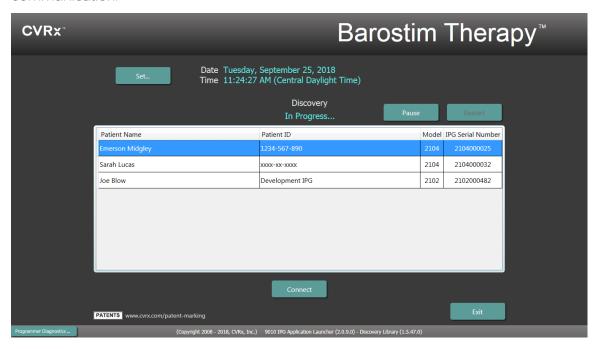




The Discovery status should indicate **In progress...** While Discovery is in progress, all CVRx devices in the area will be displayed in the list of IPGs discovered.

To establish communication, first select the device by clicking on the row containing the desired patient identification and serial number information. This will highlight the row.

Ensure that the patient identification and serial number of the selected IPG matches that of the device implanted in the patient being treated. Click on the **Connect** button to start communication.



While the programmer establishes connection with the IPG, the screen will display the IPG Serial Number, Patient Name and Patient ID, verify this is the correct patient. Once the connection has been made, the application will then display the Main Screen.

An automated adjustment of the IPG time takes place at the beginning of a session. The software sets the time of the IPG equal to the computer time, accounting for Daylight Saving Time, if necessary.



2 Programmer Screens

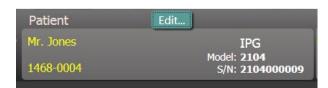


STATUS WINDOW



The Status window is always at the top of the screen and provides several pieces of information related to the current status of the IPG and communication link.

 Patient Identification: The software displays the patient identification along with IPG model and serial numbers in the Patient Identification window. The patient identification



information can be changed by clicking on the **Edit...** button. Both **Patient Name** and **Patient ID** can be stored. Note: For privacy reasons, these will not appear on saved reports.

• IPG Status: The IPG Status is a real-time display that shows information about therapy being delivered by the IPG. **No Therapy** indicates that no therapy is being delivered.

Stop: While therapy is active, the **Stop** button is available. This allows the user to quickly and permanently stop all scheduled therapies.

Resume: While therapy is stopped, the **Resume** button is available. This allows the user to resume all scheduled therapies.





Battery Life: The software displays an estimate of the
expected life remaining of the IPG battery, the date of the
Recommended Replacement Time (RRT), and the current
battery voltage. The battery life estimation is based on the
currently programmed permanent therapy and schedule
settings. The device should be scheduled for replacement on
or before the RRT to prevent loss of therapy. If the RRT date



has already passed, the Battery status box turns yellow and indicates RRT Alert.

Note: The battery voltage displayed may decrease during a communication session due to the power requirements of telemetry as well as impacts of aggressive parameter settings used during testing of therapy efficacy.

Note: The Initial Battery Voltage is reported on the Session Summary Report. This is the voltage measured at the beginning of the session and is representative of the battery health coming into the programming session.

• Lead Impedance: The impedance of the lead is displayed in the Lead portion of Status. Make an immediate lead impedance measurement by clicking on the v symbol. The lead impedance value provides a measure of lead integrity and can indicate whether therapy delivery is functioning properly.







- Telemetry Link: The quality of the telemetry link between the Programmer Interface and the IPG is provided by the Link Quality Indicator on the Signal portion of Status.
 - o To get a good telemetry signal, ensure that the Programmer Interface is placed in its upright position with no obstructions between the Programmer Interface and the IPG. Telemetry performance is best when the Programmer Interface front or back side label is facing the IPG and is 2 meters or less from the IPG.



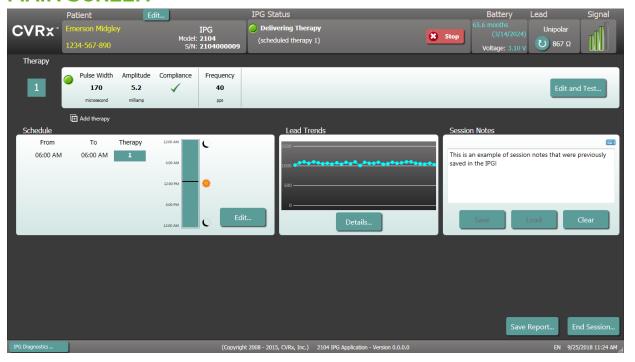
o Check the quality of the telemetry link between the Programmer Interface and the IPG by looking at the Link Quality Indicator as shown below. Two or more green bars are required to ensure that parameter updates occur in the IPG when requested.



Link Quality Indicator (Excellent, Poor, No Link)

o The 9010 Programmer Interface has the option to be hung from an IV pole using the provided hook. This configuration may improve the quality of the telemetry link in situations where the link is difficult to maintain.

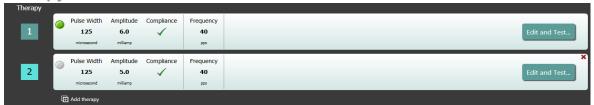
MAIN SCREEN







Therapy Status Window(s)



In some cases, a patient may require more, or less, therapy during a specific portion of the day than at other times. The system has up to three independently programmable therapies (Therapies 1, 2, 3). Each therapy has its own status window. Each Therapy status window contains a therapy status indicator, the therapy settings, and an **Edit and Test...** button. Therapy settings can be changed by clicking the **Edit and Test...** button. A new therapy can be added by clicking the **Add Therapy** button below the Therapy Status Window(s).

Schedule Window

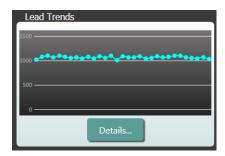
The Schedule controls the portion of each day during which therapy is delivered. The Schedule is a 24-hour clock that is started at midnight each day. The current Schedule settings are displayed in the Schedule window. The Schedule contains a list of entries. Each entry is defined by a time period



and the Therapy assigned to it. Only Therapies in the list of Therapy Status Windows can be added to the Schedule. To add a therapy to the schedule, click on the **Edit...** button in the Schedule Window. Click on the **Add Time Period** button, then select the therapy and adjust the time of day when the therapy will be delivered. **Off** should be selected if periods of no therapy are desired. To remove a schedule entry, click the **X** button. Click **Save** to program Schedule changes or **Cancel** to ignore changes.

Lead Trends Window

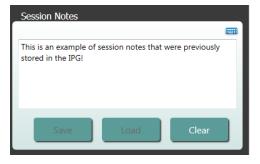
The Lead Trends window displays the recent history of the available lead impedance measurements recorded in the IPG. To review the impedance trend, click **Details**.



Session Notes Window

Enter any notes to be included in the Session Summary Report. The text in this window may also be saved in the IPG to be available during the next programming session.

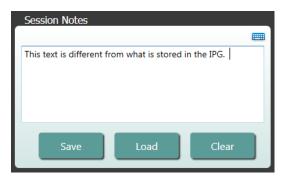
 To save the content of the Session notes to the IPG, verify the desired information is in the Session Notes text box and click Save. If the Save button is not available and there is a telemetry link, the content matches what is currently saved in the IPG.







- To clear the contents of the Session Notes, click Clear. As this changes the contents of the window, the user will be asked to confirm this operation.
- Note this does not remove the contents stored in the IPG, it only clears the contents on the screen and what will be reported on the Session Summary Report. To permanently erase what is stored in the IPG, click Clear and then Save.
- To load the Session Notes with information that was previously saved in the IPG, click the Load button. As this will change the contents of the notes window, the user will be asked to confirm this operation. If the Load button is not available and there is a telemetry link, the content matches what is currently saved in the IPG.



 To record Session Notes information on the Session Summary Report only – type the notes and click Save Report without clicking Save in the Session Notes window

Save Report

The Session Summary Report, which contains the final therapy parameters and all pertinent session information, can be generated by clicking the **Save Report...** button. When saved, the file location is displayed on the screen to allow the user to open the file and review/verify the contents of the report.

End Session

By clicking **End Session...** the software disconnects communication from the implanted device and returns to the Device Discovery window. Read any warnings or confirmations carefully and respond prior to dismissing the patient. For a list of some of these confirmations see the Trouble Shooting section of this document.





LEAD TRENDS SCREEN

The Lead Impedance trend screen displays the history of the daily lead impedance stored in the IPG. The last 30 days are displayed in the Lead Trends summary screen and in the initial view of the details screen.





Use the navigation buttons to adjust what is visible in the data display.

Click Previous to return to the main screen.





EDIT AND TEST SCREEN

The **Edit and Test** Screen is used to adjust therapy settings and record therapy effectiveness.

Therapy Settings

Therapies have independent control of the parameters in the table below. The availability of different parameters in the different programming controls is indicated.

Parameter	Description	Range of Values		\$
Amplitude	Determines the amplitude of the applied pulses.	1.0 milliamps to 20.0 milliamps	×	X
Pulse Width	Determines the width of the applied pulse. Can be configured individually for the left and right pathways.	15 microseconds to 500 microseconds		X
Therapy Frequency	Determines the frequency of applied pulses except during the Rest portion of the Burst Interval.	10 to 100 pulses per second		X
Burst	Determines whether therapy pulses are applied throughout the burst cycle in a continuous manner or if a cycle of active and rest periods is being used.	Not Checked / Checked		X
Burst Duration	Determines the length of the active portion of the burst cycle during which the Therapy Frequency is delivered. NOTE: This parameter is not shown if Burst is Not Checked.	50 milliseconds to 1950 milliseconds		X
Burst Interval	Determines the total length of the burst cycle including the active portion and the rest portion. NOTE: This parameter is not shown if Burst is Not Checked.	100 milliseconds to 2000 milliseconds		X





There are two ways to view the therapy settings.



This view contains the primary method of programming adjustments, the Therapy Amplitude (mA)



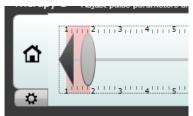
 Adjust the Amplitude by moving the slider left or right. The slider can be moved by clicking on the arrows on either end of the slider, clicking on either side of the indicator, grabbing the slider and moving with the pointing device, or by clicking once anywhere on the slider and using any of the arrow keys.

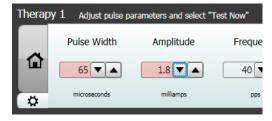


This view contains all detailed parameters of the therapy settings including access to Pulse Width, Frequency and Burst settings.



- Click the **Test Now** button to start delivery of the desired settings.
- Click Stop Test to stop therapy, allowing observation of the patient response without therapy.





Note: When the settings in the window change to a red background or the slider enters a portion of the Amplitude range that has a red background (indicating that the current parameter combinations are not allowed) the settings cannot be tested.

Patient Response Log



The Patient Response Log window records the sequence of therapy testing performed in the programming session. Each line of the log contains pertinent information for each test:





- Estimation of the battery life utilizing the parameters being tested. This estimate does not take the Therapy Schedule into account. Instead, therapies under test always assume a 24-hour schedule. This allows comparison of the current therapy settings to other therapy settings that have been tested. However, these estimates should not be compared to the Battery Life estimate in the IPG Status section at the top of the screen. The Battery Life estimate in IPG Status always represents the longevity of the currently programmed permanent therapy and schedule settings.
- Compliance status of each therapy. Compliance is measured when therapies are tested on the **Edit and Test...** screen. The Compliance indication can be one of the following:

"---" No Compliance measurement has been taken

"

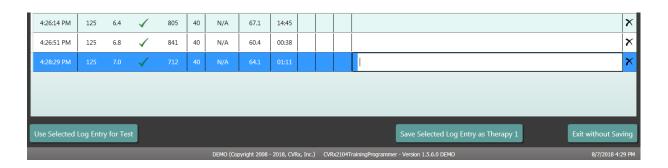
" IPG is able to deliver programmed amplitude"

" $ilde{\mathsf{X}}$ " IPG is not able to deliver programmed amplitude

Compliance is a measure of the ability of the IPG to deliver the programmed output amplitude. The IPG delivers output pulses that maintain a constant electrical current during the duration of each pulse. There are situations in which the device cannot maintain this constant current. When this occurs, the device will not deliver the programmed amplitude throughout the duration of the pulse and Compliance will fail. Settings that are out of Compliance cannot be saved in the IPG.

NOTE: All therapies in the schedule must be evaluated for Compliance at each follow-up so that the proper settings are sent to the IPG. This should be performed even if the therapy settings are not being changed. The currently active therapy is automatically updated for compliance during initial interrogation.

- Duration / Interval (Dur/Int) refers to the burst settings. Duration is the length of time of the active portion of the burst cycle during which the Therapy Frequency is delivered. Interval is the total length of the burst cycle including the active and rest portion.
- Clicking the Record button adds an entry to the Patient Response Log. If Compliance has passed, the recorded entry is selected (row is highlighted). Any entry can be selected by clicking somewhere on the desired entry in the log.







- Click the **Use Selected Log Entry for Test** button to load the settings of the selected Patient Response Log entry into the **Therapy N** (N=1,2,3) window. This provides convenient access to prior settings if more testing is desired. To use these parameters, click Test Now.
- There are two options to return to the Main Screen.
 - Select the permanent therapy settings by choosing a Patient Log Entry that contains the desired settings and also indicates that Compliance has passed.
 Then press the Save Selected Log Entry as Therapy N button.
 - o If no permanent changes are to be made, choose Exit without Saving.



JPG Programing



Goal

To achieve maximum efficacy of BAROSTIM THERAPY by maximizing the dose, while maintaining patient comfort and safety.

Dose

Is limited by extraneous stimulation, undesired symptoms (e.g. sensations, jaw or neck pain, difficulty speaking or swallowing), and stimulation capabilities of the device (i.e. failed compliance).

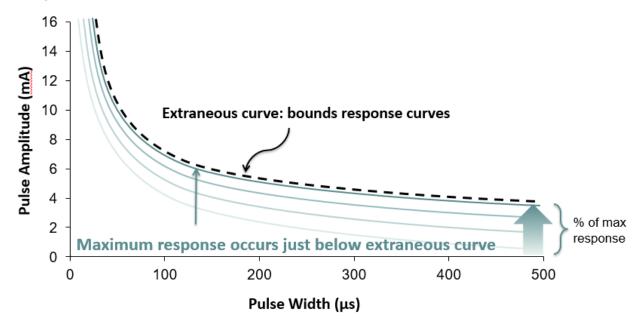
Settings

For most patients, modification of the Pulse Amplitude (in milliamperes) is all that is needed. In some circumstances, adjustment of Pulse Width (microseconds) or Pulse Frequency (pulses per second) may be required.

Approach

Dose is maximized by maximizing pulse amplitude at nominal pulse width and frequency settings. The dose may need to be titrated over time to achieve the goal.

BAROSTIM THERAPY dose and the threshold for extraneous sensations follow typical strength-duration curves.



PERFORMING PROGRAMMING

Prior to Programming

- Assure that the patient is prepared for the session
 - o Ensure patient has achieved a steady hemodynamic state
 - o Obtain baseline values of appropriate hemodynamic parameters (e.g. Blood Pressure and Heart Rate)

During Programming

 Take response measurements to assure patient safety and understand therapeutic doses:





- o Record response measurements (e.g. Blood Pressure or Heart Rate) at set points within the programming algorithm
- o Record response measurements taken at set points on the Programmer Session Log on the Edit and Test screen
- When increasing parameters:
 - o Use multiple, successive small increments
 - Wait only long enough at each setting to look for extraneous sensations and device compliance
- Add comments to the Programmer Session Log on the Edit and Test screen, especially when extraneous sensations are reported, so that these comments can be saved in the Programmer Session Report. If desired include this information in Session Notes and Save to the IPG for future reference.

PROGRAMMING APPROACH

The goal when programming BAROSTIM THERAPY is to identify the pulse amplitude just below the threshold for extraneous sensations at a nominal pulse width and pulse frequency.

Step 1: Identify Maximum Pulse Amplitude (i.e. dose)

- Start with a pulse amplitude of 2 mA
- Increase pulse amplitude in two steps until one of the following conditions is met:
 - o Symptoms are encountered
 - Decrease pulse amplitude in two steps until symptoms resolve
 - o Compliance fails
 - Decrease pulse amplitude in two steps until compliance is re-established
- If 2 mA causes symptoms, consider a reduction in pulse width (from 125uS to 65uS) combined with an increase in Pulse Amplitude.

This setting is only available in the screen.

Step 2: Therapy Titration

BAROSTIM THERAPY can be up-titrated in a similar fashion as other medications/therapy. Pulse Amplitude should not be more than 50% of the maximum tolerated dosage during the first two weeks after implantation. Plan programming visits in approximately 2-3 weeks, 1-2 months, 3 months and 6 months after initial implant to allow for optimization of BAROSTIM THERAPY.

Step 3: Finalizing Programming

- Ensure optimal programming values are programmed for chronic use and that therapy is scheduled
- Obtain final values of relevant hemodynamic parameters such as blood pressure and heart rate
- Save Programmer Session Summary Report





FOLLOWING-UP BAROSTIM THERAPY

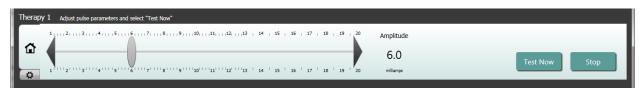
Evaluate Lead Impedance

Review the lead impedance displayed in the upper right corner and in the Lead Trends window. The recent history of the Lead Trends is displayed in the Lead Trends window. To review more of the lead trend history, click the Lead Trends Details... selection.



Precaution: If any of these 3 situations is observed, a CVRx representative should be contacted immediately.

- Low lead impedance, less than 300 Ohms, may indicate a short in the lead.
- High lead impedance, greater than 3000 Ohms, may indicate poor lead connection to IPG or a lead fracture.
- Drastic, abrupt or sudden changes in lead impedance may indicate a problem with a lead. Abrupt drops in impedance are expected immediately post implant of a new Carotid Sinus Lead (CSL). This is usually followed by a gradual increase in impedance until 2-4 weeks post implant.



Adjust therapy as needed

- If chronic therapy results are greater than desired:
 - o Reduce Pulse Amplitude
- If chronic therapy results are less than desired:
 - o Increase Pulse Amplitude





- If device longevity is less than desired:
 - o Consider variable daily therapy schedules (e.g. lower dose at night)

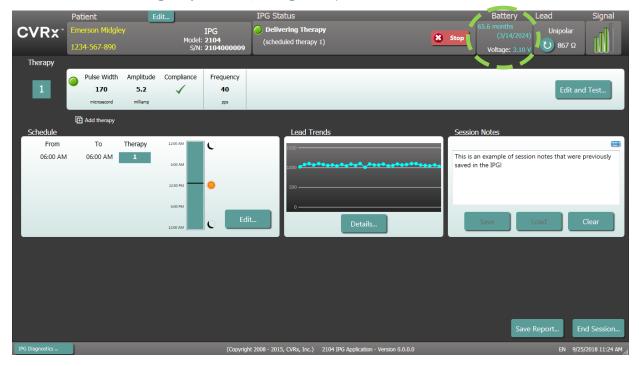
Adjust the Schedule if necessary

Edit the Schedule window to adjust time of day when therapy will be delivered.

Note: The IPG Schedule is in relation to the local time set by the programmer computer. Patients who travel to other time zones and have more than one therapy in their Schedule will experience therapy transitions based on the time zone in use at the time of IPG programming. If the patient travels to a different time zone, the IPG schedule does not change to the new time zone. Clinicians should take this behavior into consideration when programming multiple therapies.

Estimating Longevity

Review estimated longevity after adjusting therapies.



• Adequate Follow-up frequency near RRT: Follow-up frequency should be adjusted within 2 years of RRT such that the next follow-up occurs no later than half of the number of months to predicted RRT when RRT is at least 3 months away. For example, if RRT is expected in 14 months the next follow-up should be in 7 months. When RRT is less than 3 months away, it is recommended that replacement be scheduled on or before the RRT to prevent battery depletion.





ENDING PROGRAMMING

Once the Therapy Programming and the Schedule has been adjusted, review the Main Screen of the application to **verify all the desired settings are correct** (Patient Identification, IPG Status, Therapy Settings, and Schedule).

Session Notes

Enter information in the Session Notes to be stored on the Session Summary Report. Save Session Notes to the IPG to be displayed at the next Programming Session, if desired. This may be useful to record extraneous stimulation thresholds for future reference, as an example.

Save the Session Summary Report

The report contains the final therapy parameters and all pertinent session information for record keeping purposes.

System Shut Down

Once programming is completed:

- Exit Discovery Screen.
- Shut down the computer using the Windows Start Menu and click Shut down.



4 Troubleshooting



CVRX CONTACT INFORMATION

CVRx, Inc. 9201 West Broadway Avenue, Suite 650 Minneapolis, MN 55445 USA Phone: (763) 416-2840 Fax: (763) 416-2841 Email: engineering@cvrx.com

www.cvrx.com

WARNING MESSAGES

The following table lists some of the common warning messages displayed in the user interface and a description of the conditions leading to the warning and the action required by the user to resolve.

Symptom or System/Warning Message	Possible Cause(s)	How to resolve
PGM005 - Programmer Not Connected PGM006 - Programmer Connection Problem PGM007 - Programmer Failure IPG013 - Programmer Not Connected	 Poor USB connection Damaged Programmer Interface Damaged Programmer Interface USB cable 	 Ensure Programmer Interface USB cable is properly connected. Ensure Programmer Interface USB cable is not cut or otherwise damaged. Ensure green power indicator is lit on Programmer Interface. Disconnect, and then reconnect the USB cable. If problem persists, exit and then restart application If problem still persists, contact CVRx

END SESSION WARNING MESSAGES

The following table lists warning messages that can occur when ending session. All these messages are in the IPG008 – End Session dialog. To resolve a message, click No to return to the programming session and make the appropriate changes.

Symptom or System/Warning Message	Possible Cause(s)	How to resolve
THERAPIES ARE DISABLED	Therapies have been StoppedNo therapies are in the schedule	1. Make sure that the schedule contains one or more therapy entries. Resume Therapy 1. Make sure that the schedule contains one or more therapy entries.
A scheduled therapy has not passed a compliance test.	One or more therapies in the therapy schedule do not have a Compliance check mark.	For each therapy not in compliance click on the Edit and Test button to test and save therapy settings that pass the Compliance checks.
Patient Information has not been entered.	The Patient Name and Patient ID fields have not been set.	Click the Patient Edit button and enter the information in at least one of the fields on the Edit Patient Information dialog. Click Save.





TROUBLESHOOTING

The following table list some Symptoms, possible causes and the action required by the user to resolve.

Symptom or System/Warning Message	Possible Cause(s)	How to resolve
Implanted device does not appear on Discovery screen Unable to connect to selected IPG Poor or no telemetry signal while in session	Loss of communication.	1. Ensure that the Programmer Interface is placed in its upright position with no obstructions between the Programmer Interface and the IPG. 2. Ensure the Programmer Interface front or back side label is facing the IPG. 3. Ensure the distance from the Programmer Interface and the IPG is no more than 2 meters. 4. If problem persists, exit and then restart application 5. If problem still persists, contact CVRx
Compliance failure	 Therapy settings are too high Lead impedance is too high Pulse width is too high 	 Verify the lead impedance is in the normal range. Reduce Therapy Amplitude If further reduction of Amplitude is not desired, reducing Pulse Width may allow the Compliance check to pass.
The programmer computer operating system indicates a quick drop in battery capacity. Or Operating system displays a message indicating the battery needs to be replaced.	Computer has been in storage for a long period of time – this behavior may not be an indication of a worn battery	 Plug in the computer to allow the battery to charge. After power up, allow the computer to charge for at least 15 minutes, then note the charge level of the battery. If the battery charge indicates greater than 60%, unplug the charging cable and monitor the battery charge percentage. If the battery depletes slowly from this higher charge level, it does not need to be replaced. If it depletes rapidly, then consider replacing the battery or ensuring the computer is plugged in anytime it is in use
Software stops responding to keyboard or pointer device input:	Operating system error or Application errors	 Use task manager (accessed by pressing ctrl-alt-delete) and close the CVRx application. Restart the application. If that is unsuccessful, the programmer computer can be restarted to recover functionality.

If there is still a problem after following the troubleshooting steps above, contact your CVRx representative or call CVRx.

DIAGNOSTIC FILE

A diagnostic file may be requested by CVRx for advanced trouble shooting support. To save a diagnostics file, open the CVRx Launcher application, go to the **Programmer Diagnostics** button and select **Save PGM Diagnostics** and indicate where to save the file. This file may be requested by CVRx.





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EC REP Emergo Europe



