

Matrix Orbital

GX

Upgrade/Installation Guide

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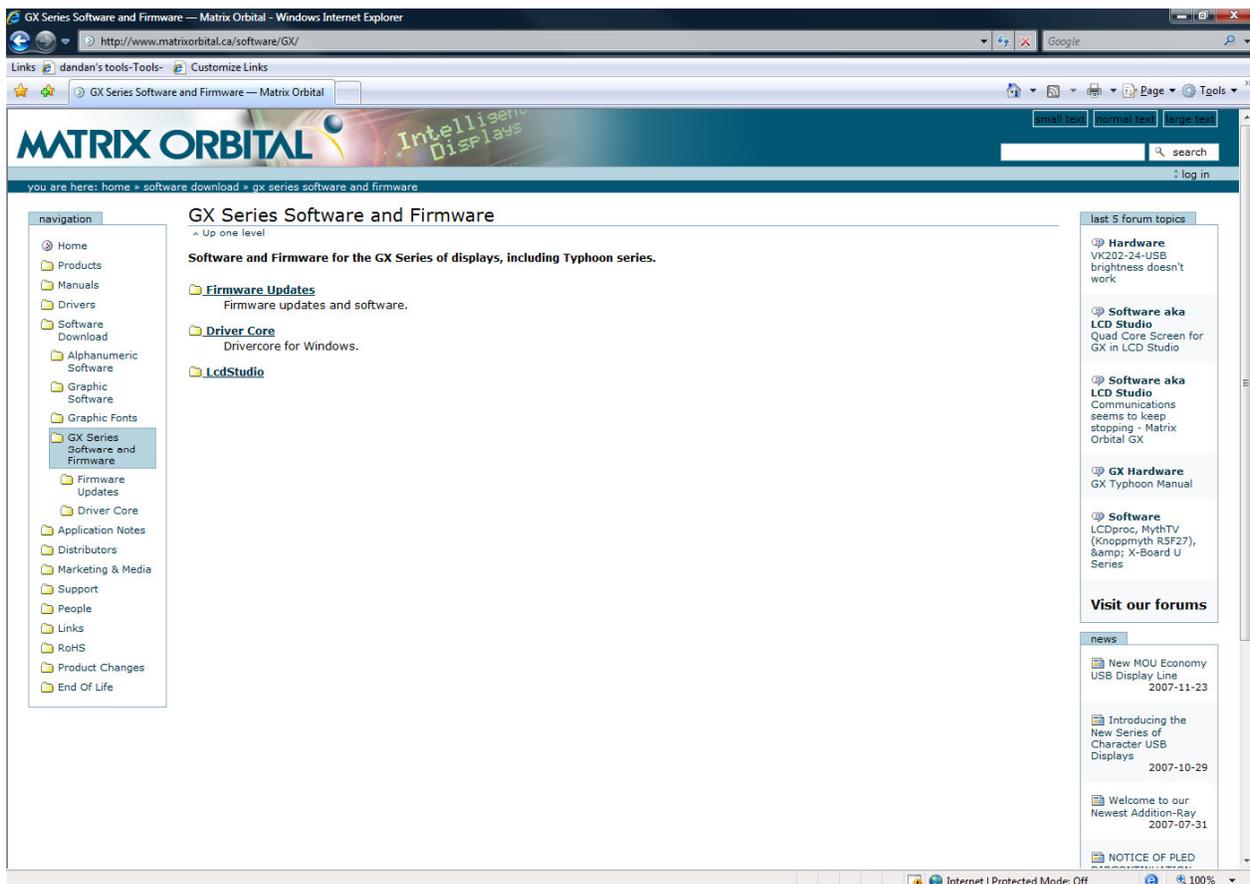
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Obtaining Software Updates

All Matrix Orbital GX Software updates are available at the support website located at :

<http://www.matrixorbital.ca/software/GX/>



The screenshot shows a web browser window displaying the Matrix Orbital website. The browser's address bar shows the URL <http://www.matrixorbital.ca/software/GX/>. The website header features the Matrix Orbital logo and the tagline "Intelligent Displays". Below the header, a navigation menu is visible on the left side, listing various categories such as Home, Products, Manuals, Drivers, Software Download, and GX Series Software and Firmware. The main content area is titled "GX Series Software and Firmware" and includes a sub-section for "Software and Firmware for the GX Series of displays, including Typhoon series." This section lists three items: "Firmware Updates" (with a sub-link for "Firmware updates and software."), "Driver Core" (with a sub-link for "Drivercore for Windows."), and "LcdStudio". On the right side of the page, there are sections for "last 5 forum topics" and "news". The "last 5 forum topics" section lists several topics related to hardware and software issues. The "news" section lists recent updates, including "New MOU Economy USB Display Line" and "Introducing the New Series of Character USB Displays".

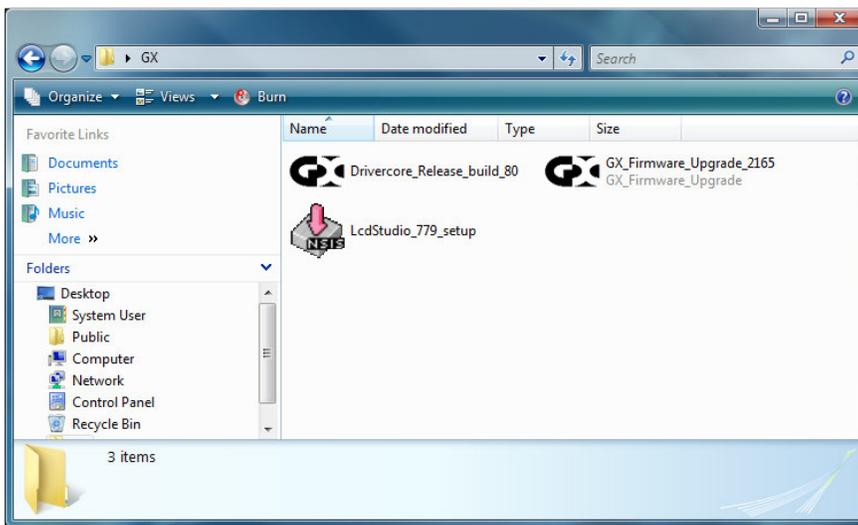
Installing the GX Software

About software updates

The Matrix Orbital Software Package contains new versions of the GX Firmware, Matrix Orbital Driver core and LcdStudio. The DriverCore package contains the new versions of the drivers needed for your GX after it receives its firmware update so its recommended to install the DriverCore update before any of the others.

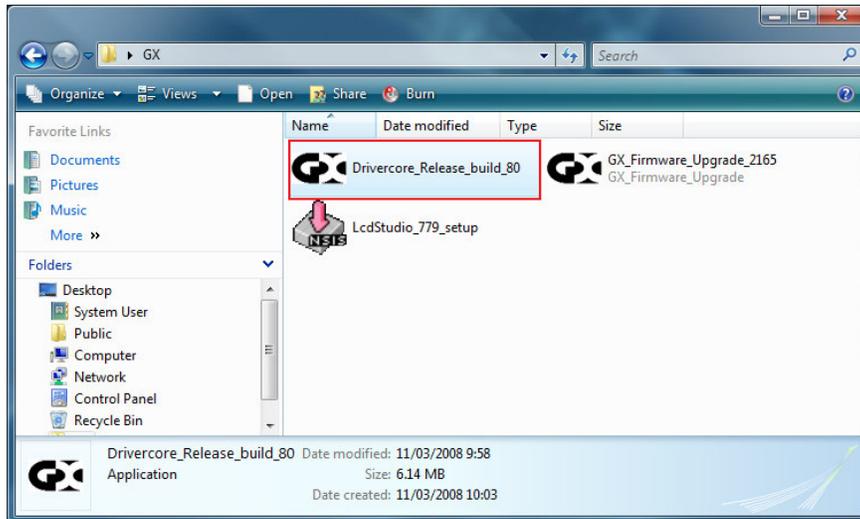
Downloading and Unpacking Updates

- 1) Download the software update package from the matrix orbital support site
- 2) Unzip the contents of the software update package to a GX folder on your desktop

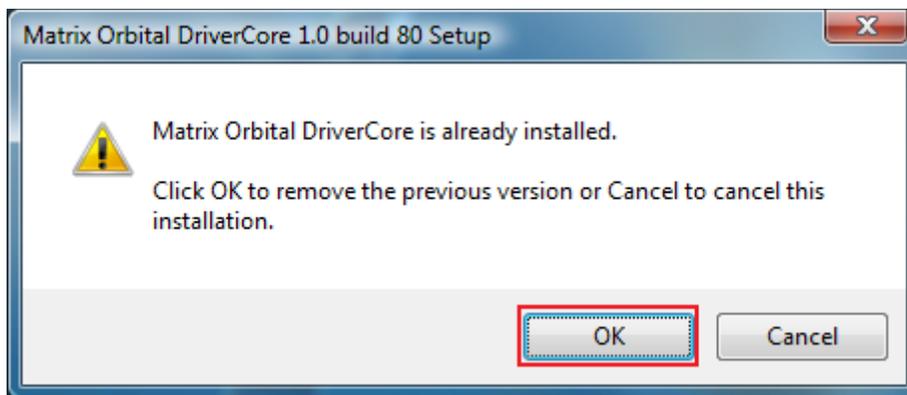


Installing/Upgrading Driver Core

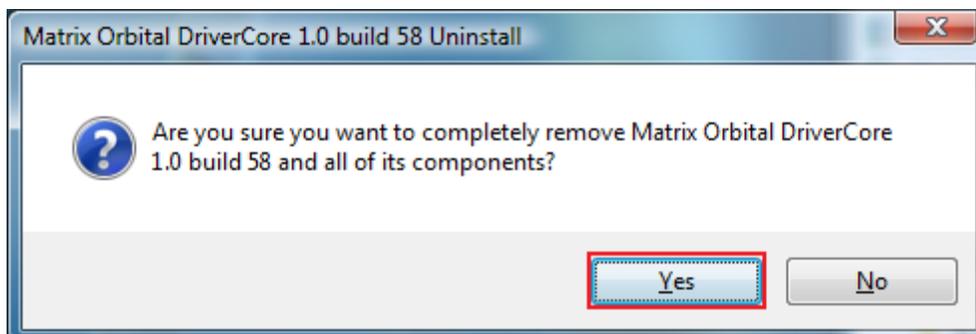
- 1) Double click the DriverCore Icon in the GX folder on your desktop



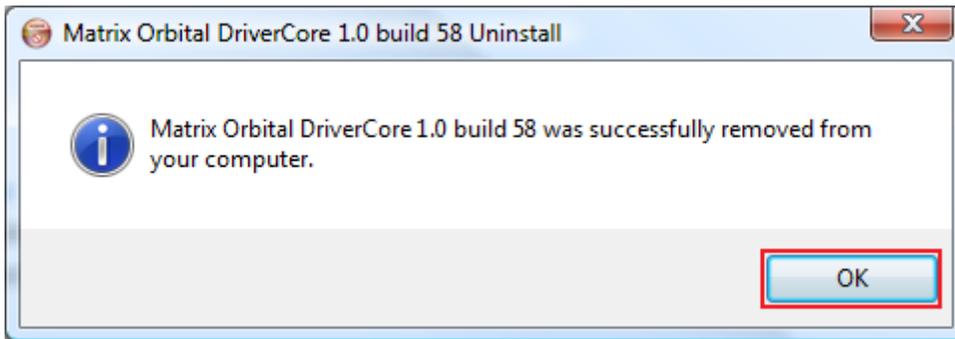
- 2) If you have installed an old version you will be asked to remove this, if you have not continue at step 5. Click OK to remove the previous version of the drivers



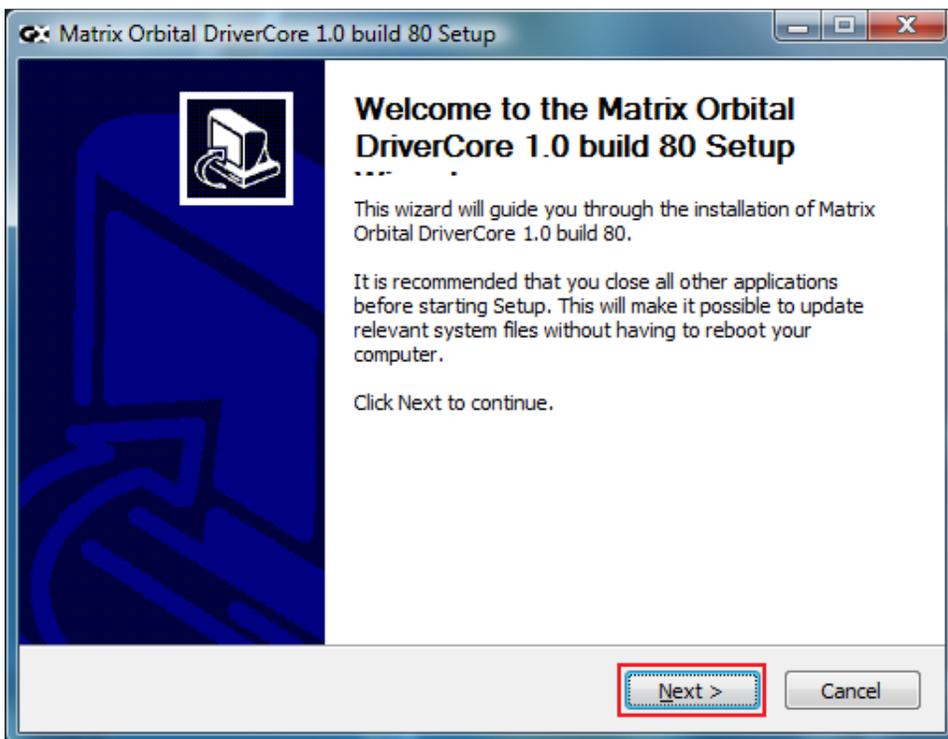
- 3) Click Yes to confirm the choice to remove the previous version



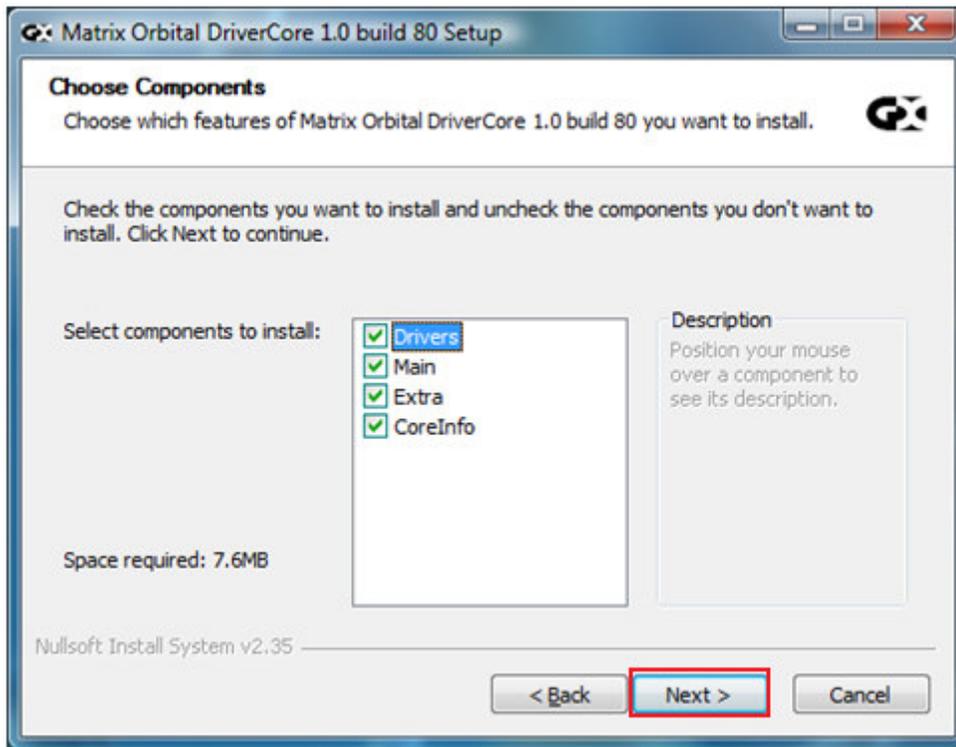
- 4) Click Ok on the confirmation dialog that the previous version has been removed



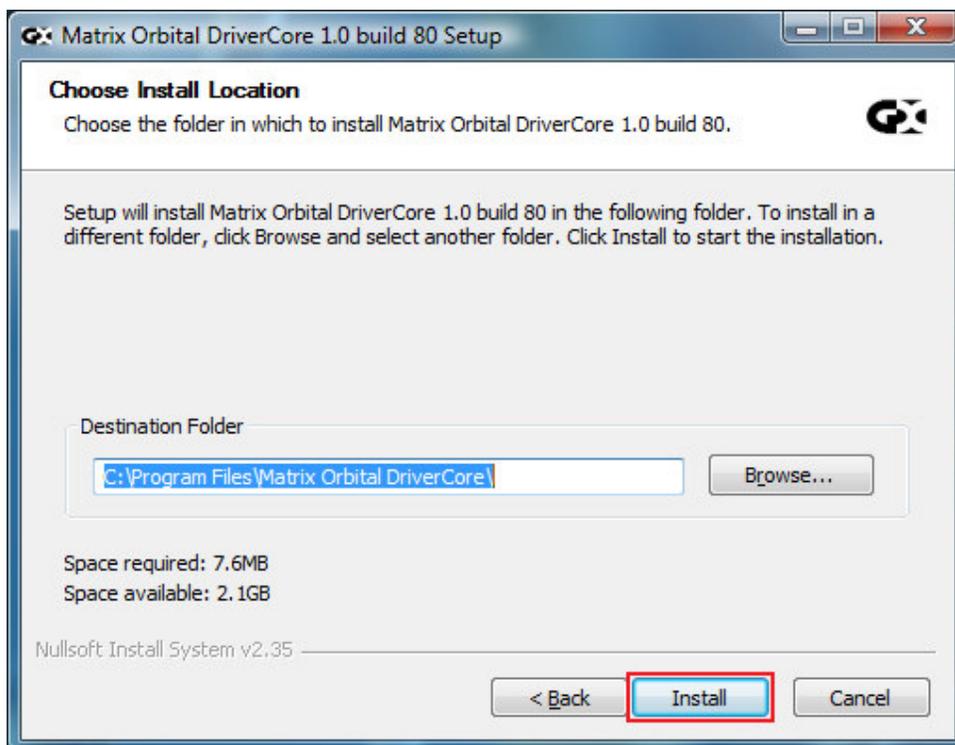
- 5) Click Next



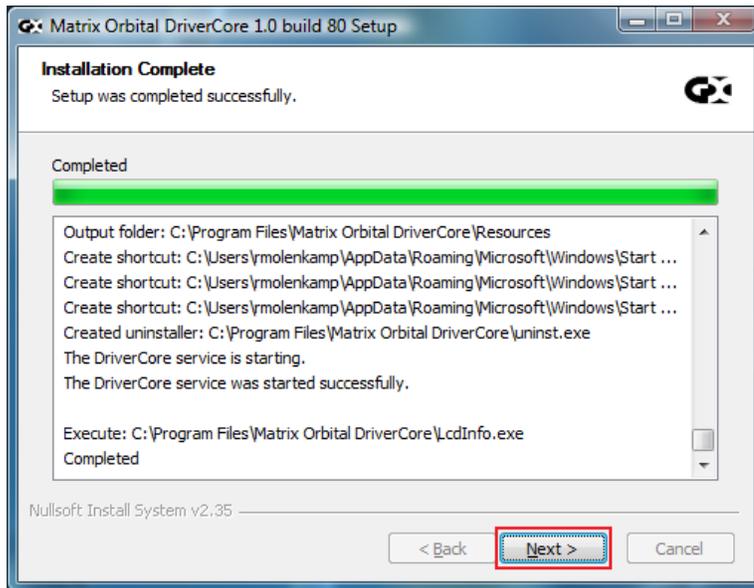
6) Click Next



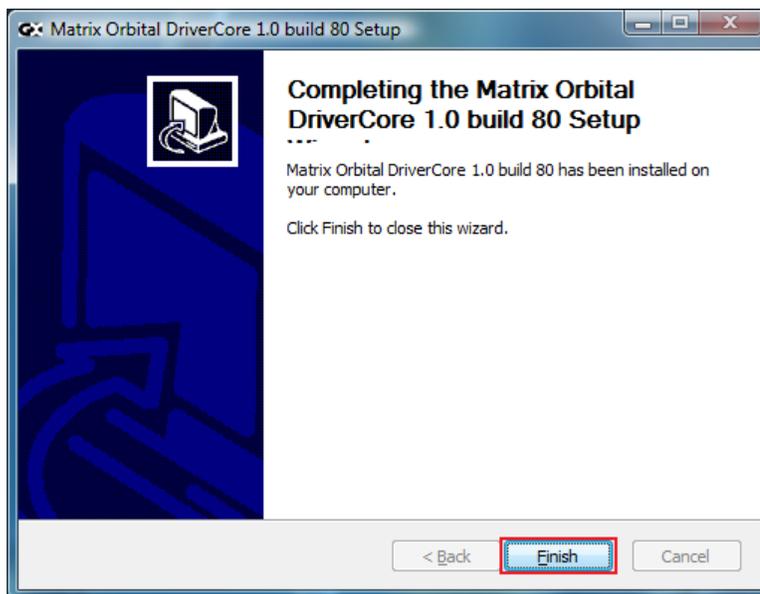
7) Click Install



8) Click Next



9) Click Finish

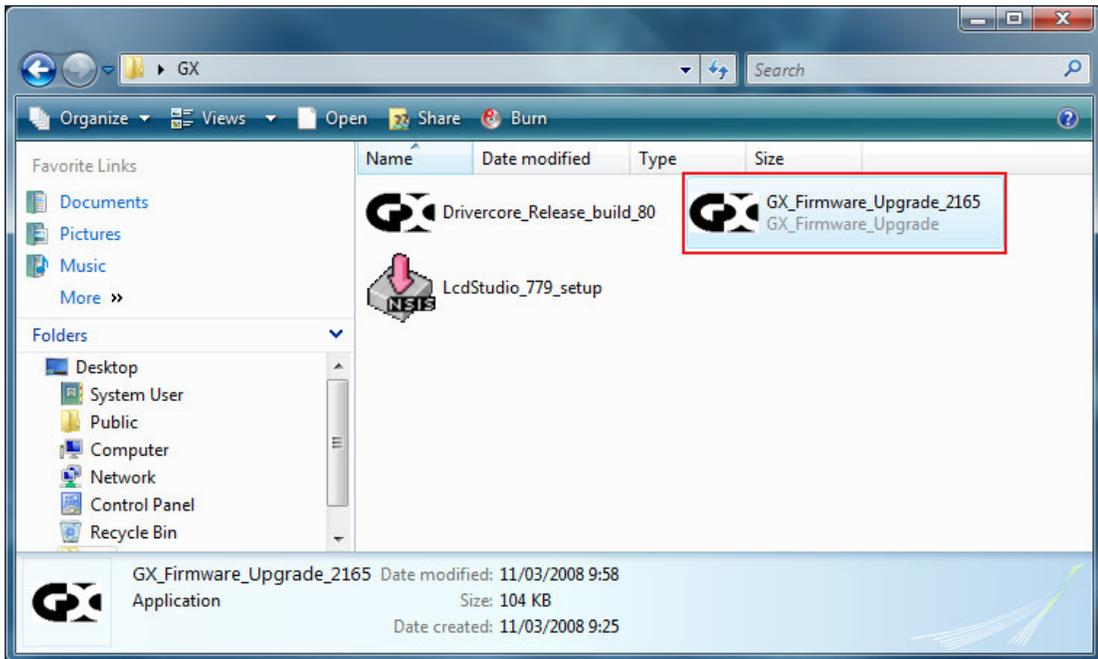


10) At this point plug in the GX to the USB port of your computer, if you are not upgrading the windows driver wizard should popup at this time. If drivers are not automatically found please point the wizard at the drivers located in 'C:\program files\Matrix Orbital DriverCore\Drivers'

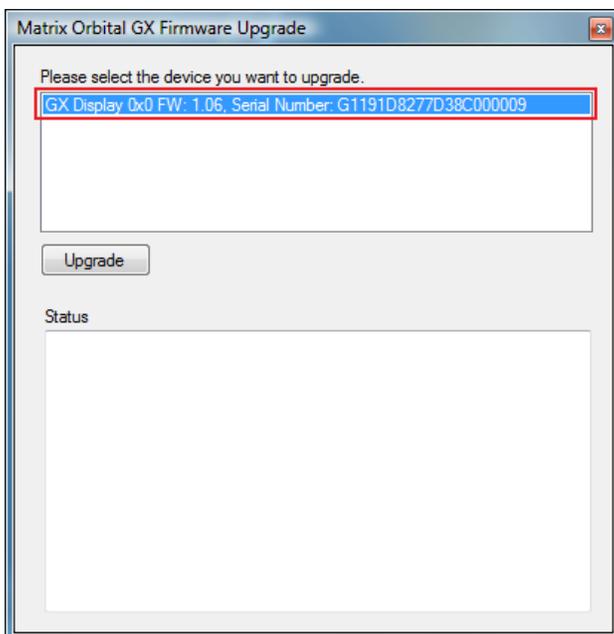
Upgrading Firmware

If you bought your GX Before august'08 it might be needed to upgrade the firmware in your GX. If you have to please follow the following steps else skip to the next section of this manual.

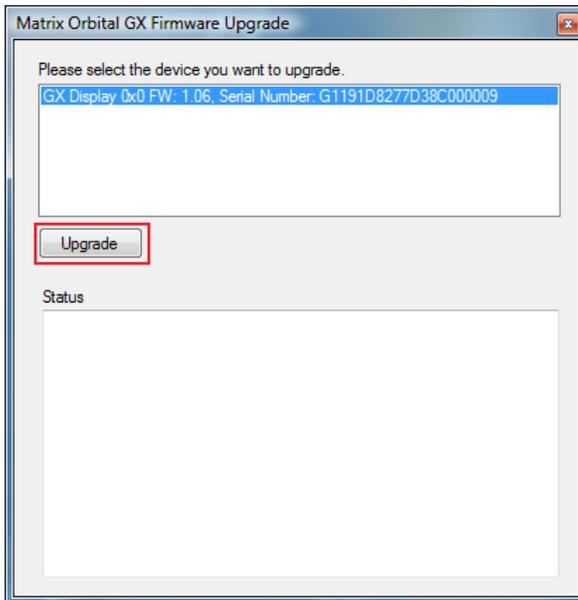
- 1) Double Click the GX Firmware Update Icon in the GX Folder on your desktop



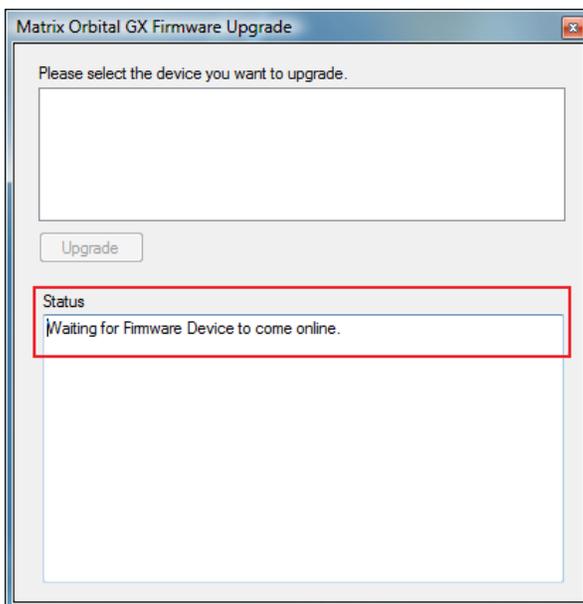
- 2) Select the Device you want to upgrade



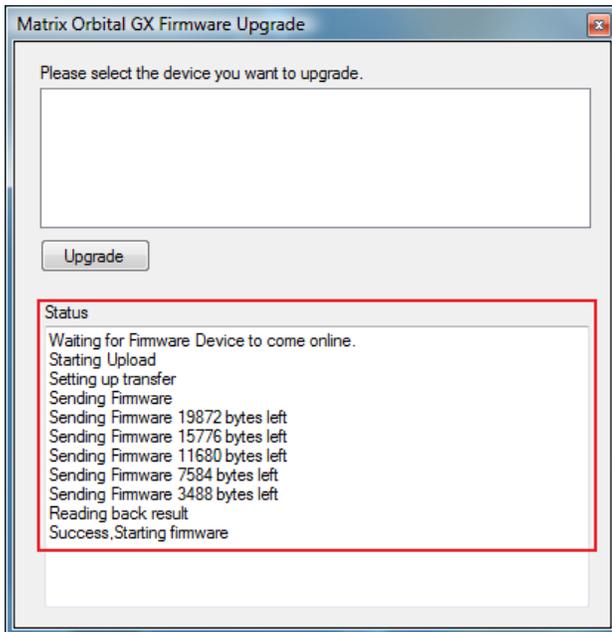
3) Click Upgrade



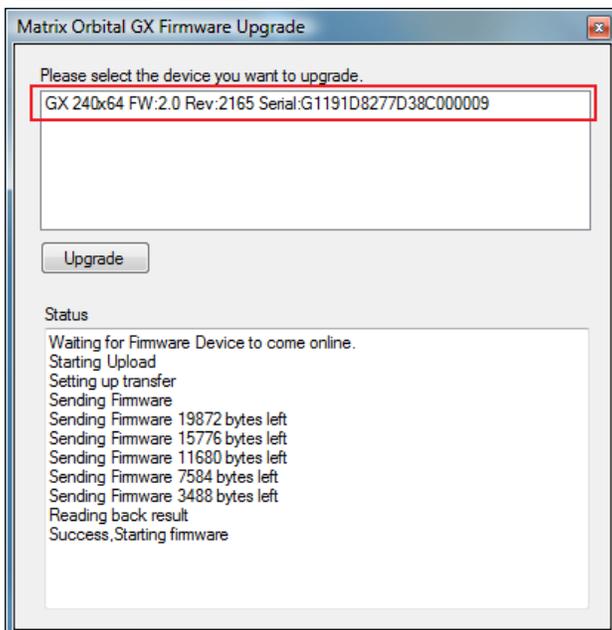
4) The GX Will disappear from the list and the message 'Waiting for Firmware Device to come online' will show in the status window. If windows asks for drivers at this point in time please point it at the drivers located in 'C:\program files\Matrix Orbital DriverCore\Drivers'



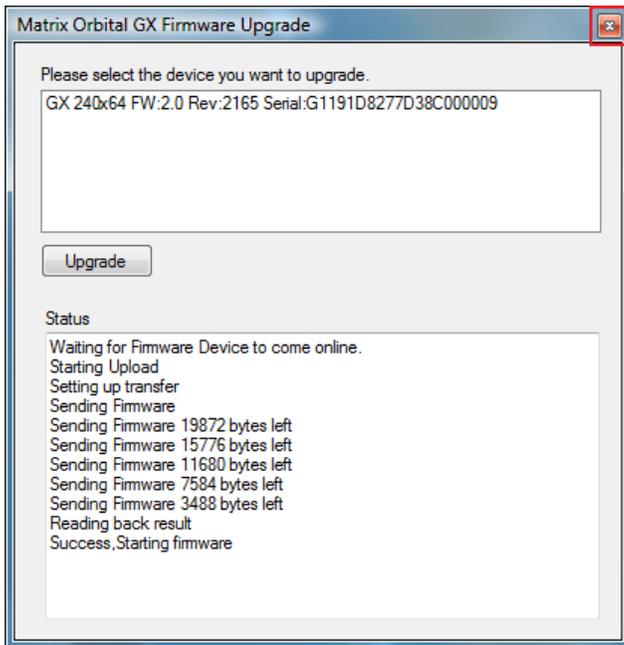
- 5) The GX will be upgraded, progress can be followed in the status window



- 6) After a few seconds the Upgraded GX should return to your system, If windows asks for drivers please point it at the drivers located in 'C:\program files\Matrix Orbital DriverCore\Drivers'

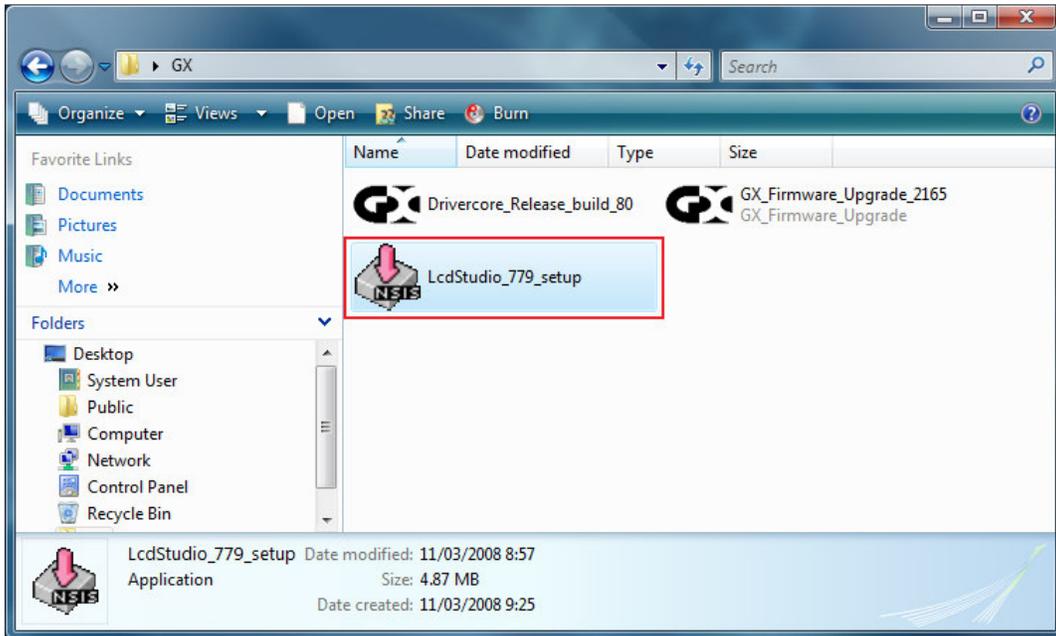


7) Click the Close Button to close the application

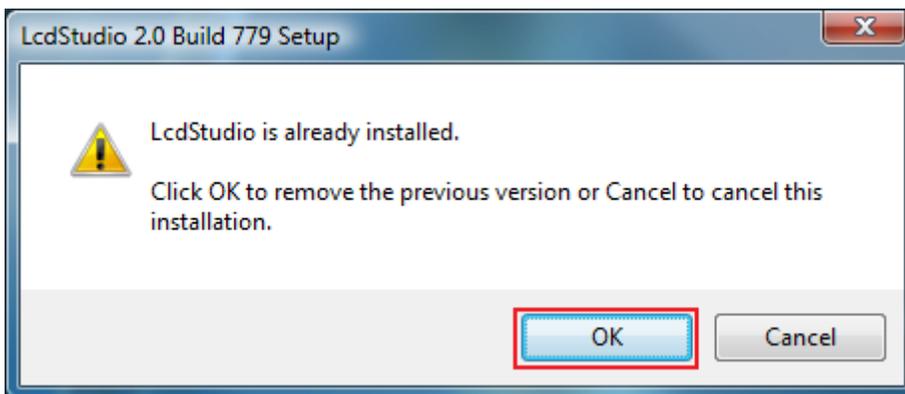


Installing/Upgrading LcdStudio

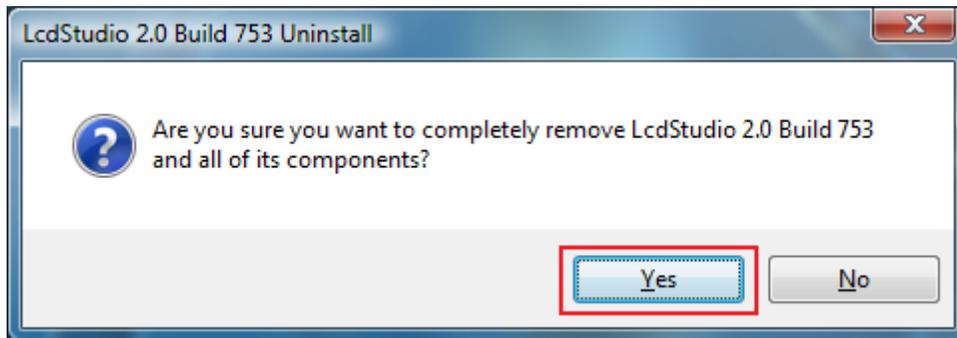
- 1) Double Click the LcdStudio Setup Icon in the GX Folder on your desktop.



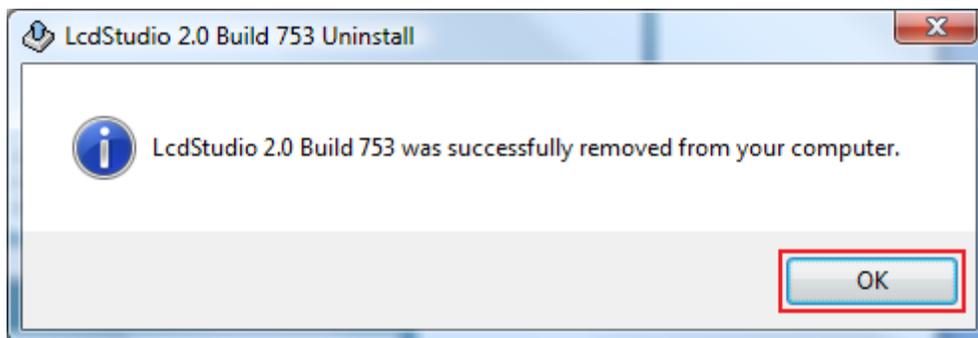
- 2) If you have a previous version installed you will be asked to remove this, If you have not continue at step 5. Click Ok to remove the previous version



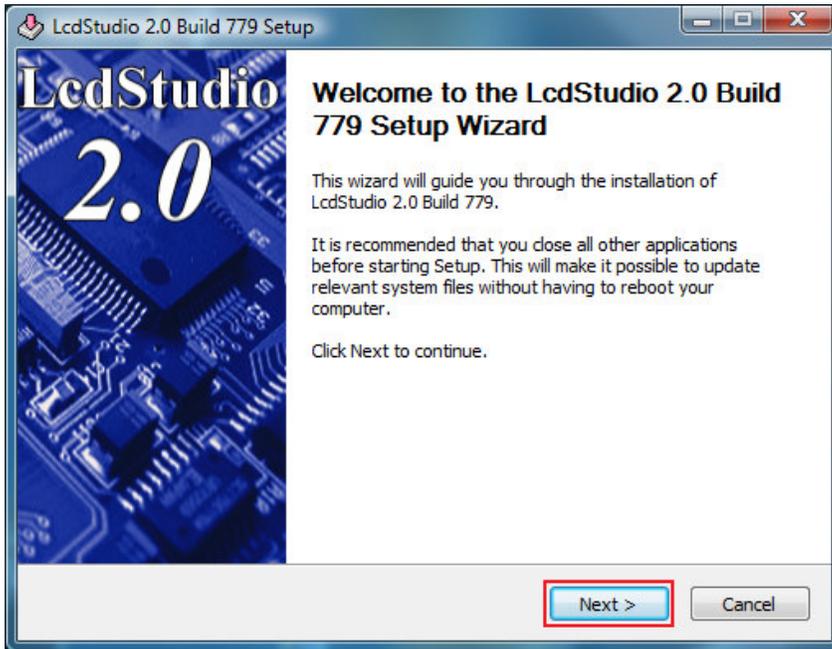
- 3) Click Yes to confirm removal.



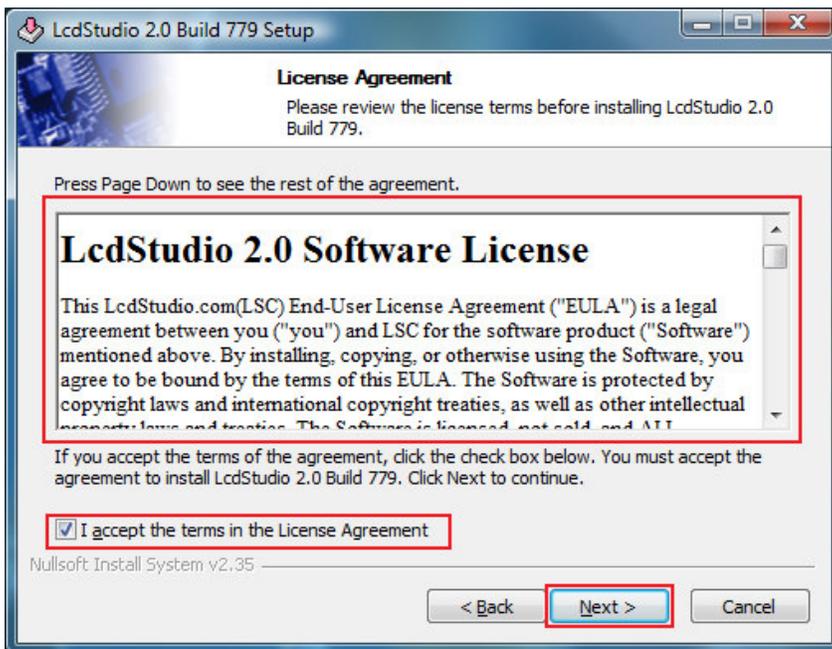
- 4) Click Ok.



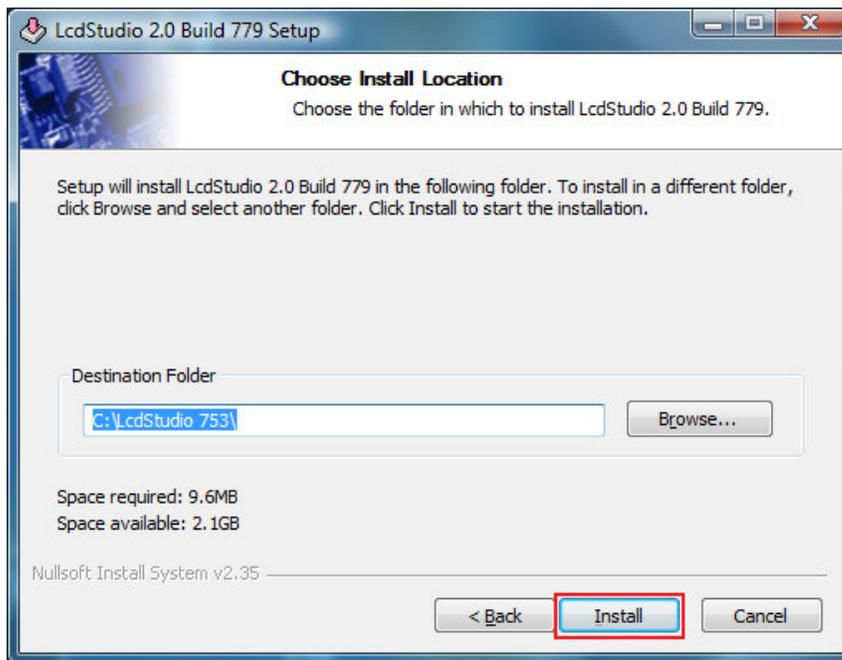
5) Click Next



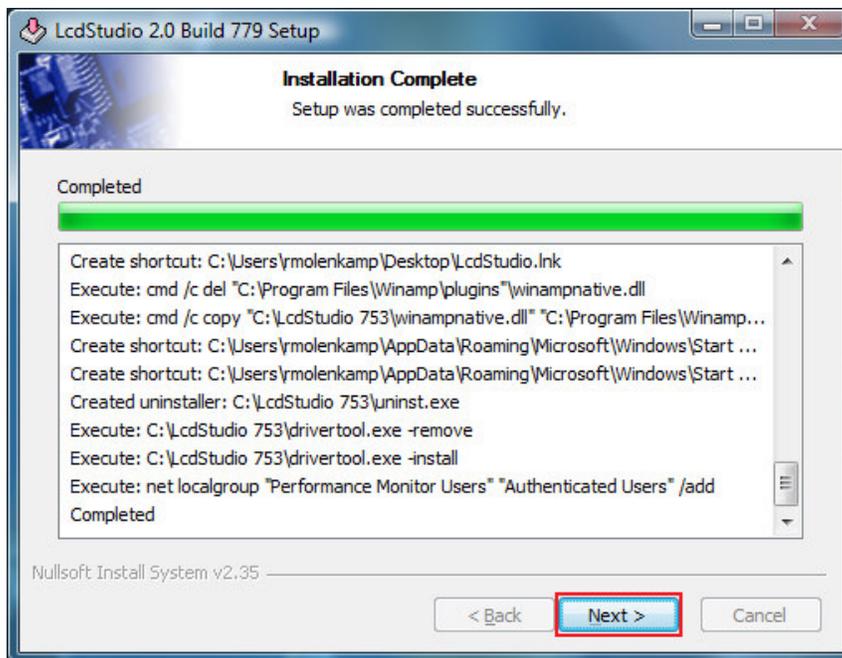
6) Read the license terms, if you accept, click the checkbox and click Next.



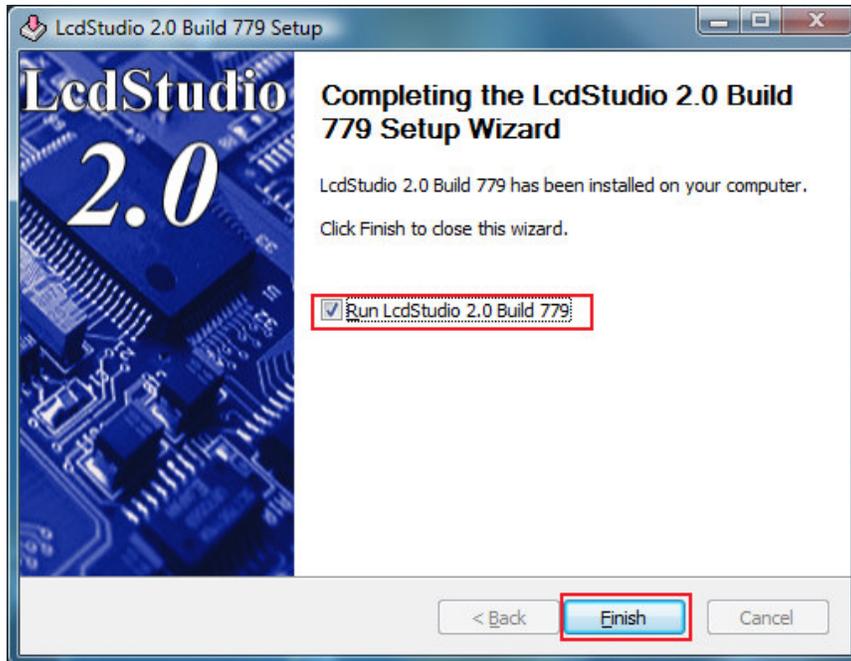
7) Click Next.



8) Click Next.

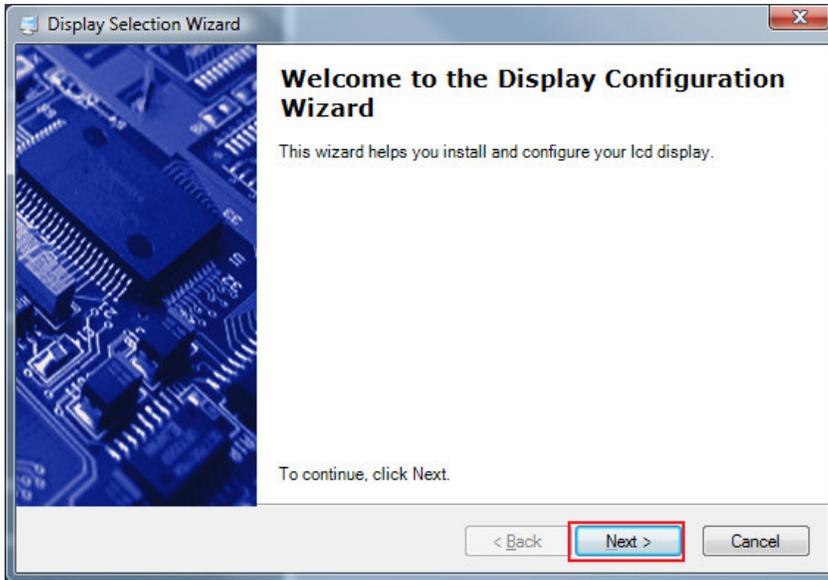


9) Click Finish.

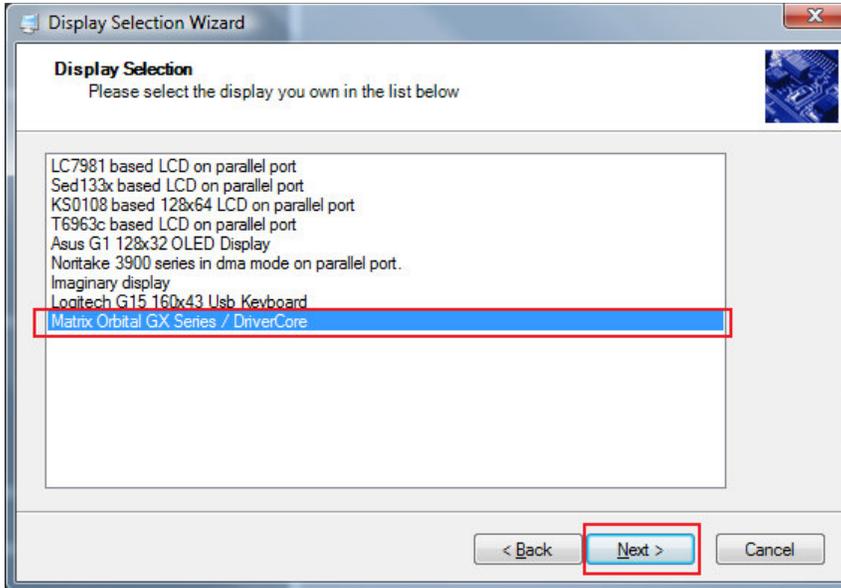


Configuring LCD Studio

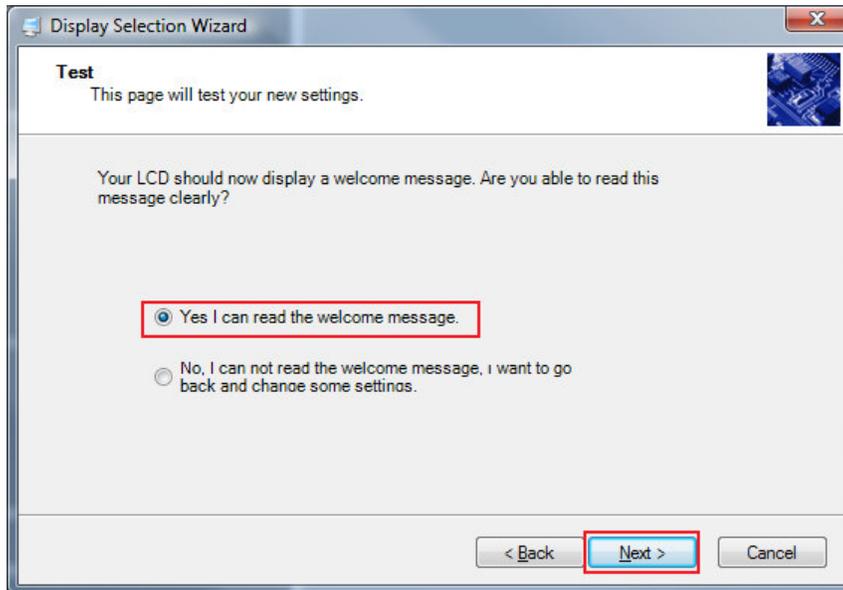
- 1) Click Next.



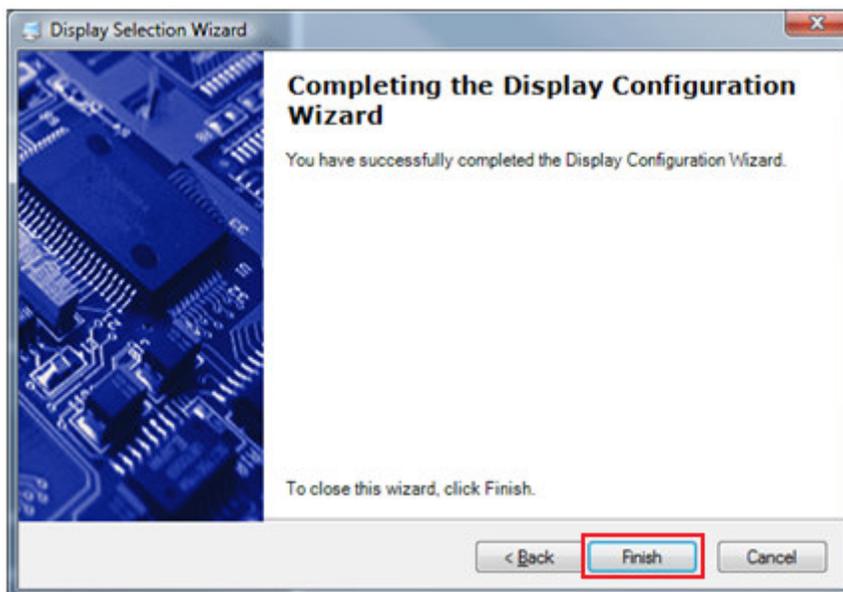
- 10) Select the Matrix Orbital GX Series / DriverCore Driver and click Next



11) If you can Read the welcome message select Yes and Click Next



12) Click Finish.

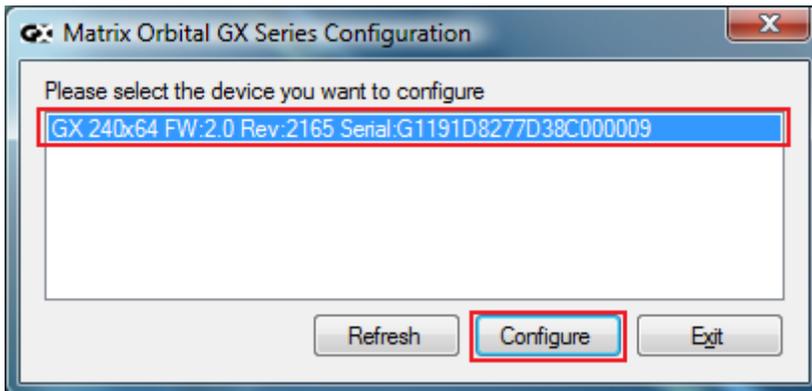


Changing Display Defaults

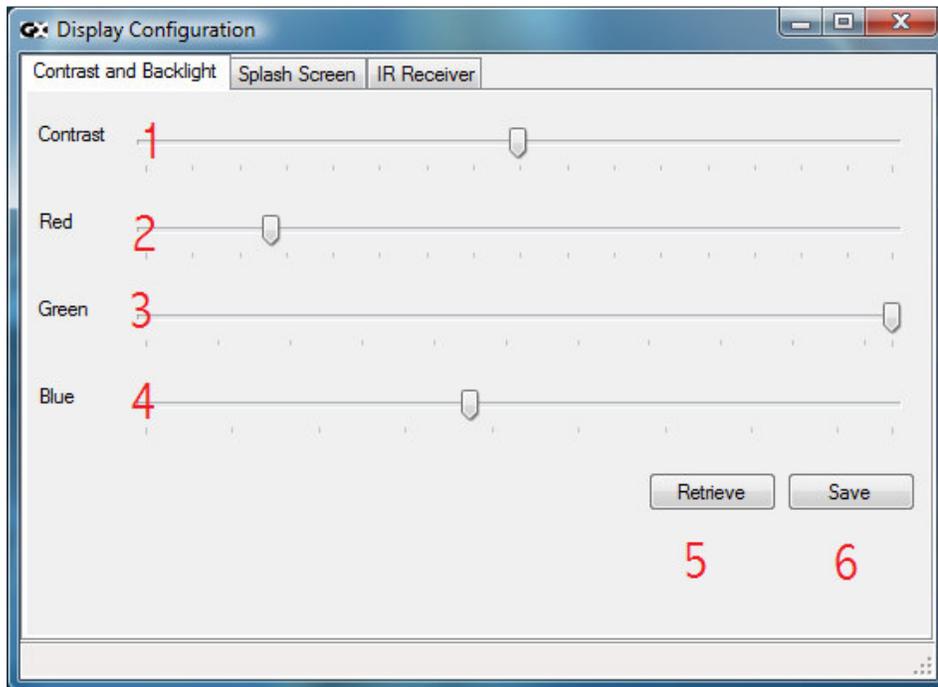
- 1) double click the “Lcd Defaults Configuration Utility” Icon located on your desktop.



- 2) Select the display you want to configure and select Configure

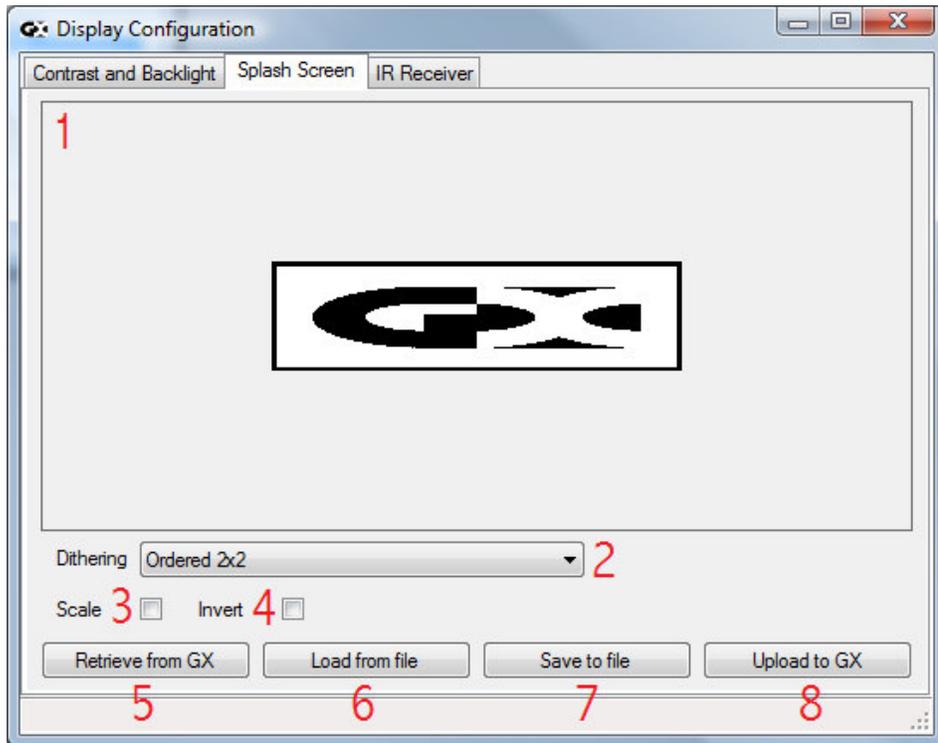


Changing Contrast and backlight defaults



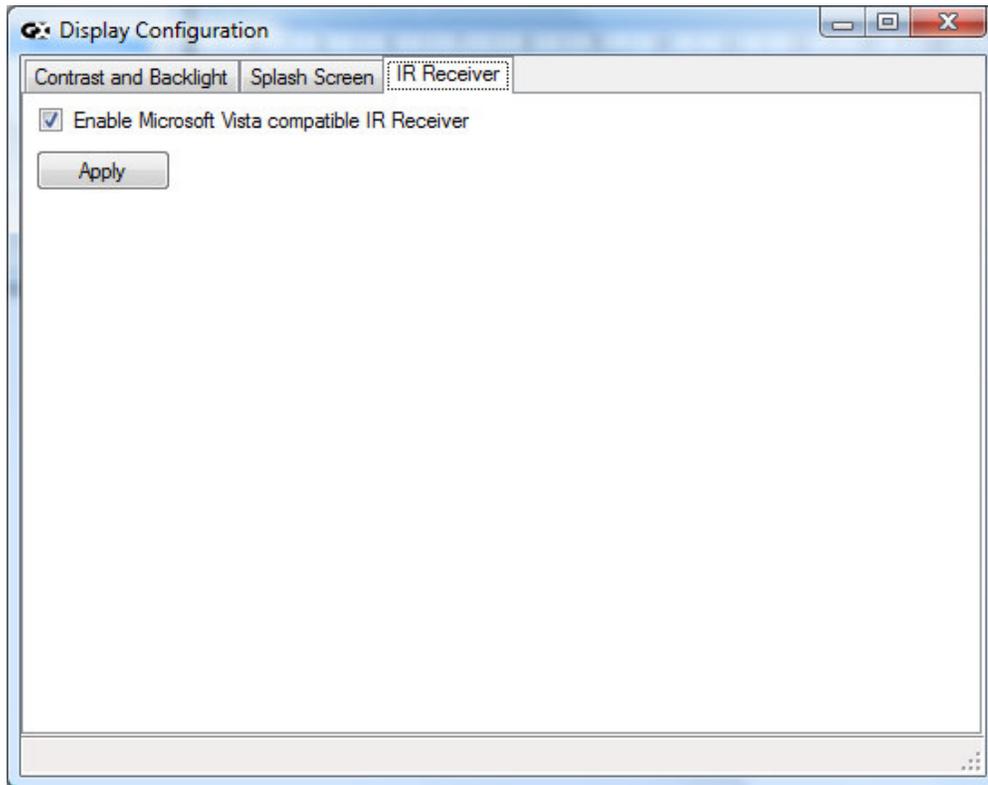
- 1) Contrast slider, this controls the contrast of the LCD
- 2) When using a TRI Color GX controls the Red element of the backlight, does nothing for the Blue/White inverse
- 3) When using a TRI Color GX controls the green element of the backlight, controls the regular backlight of the Blue/White inverse
- 4) When using a TRI Color GX controls the Blue element of the backlight, does nothing for the Blue/White inverse
- 5) Retrieves the current backlight and contrast settings from the unit.
- 6) Saves the new settings to the unit.

Configuring the Splash Screen



- 1) Preview of the on display Image.
- 2) Dithering method used to convert a color picture to black and white for use on the lcd, different algorithms works better for different images, so it is advised to try them all.
- 3) Selects if the Image should be scaled to the size of the LCD or use its original size
- 4) Select if the image should be inverted.
- 5) Reads the current Splash Screen from the GX
- 6) Loads a bitmap image from disk.
- 7) Saves the current preview image to disk.
- 8) Uploads the splash screen to the GX

Enable or disable the IR interface.



This screen allows you to enable and disable the IR receiver on the GX, if you already have a IR receiver you want to use or run windows XP where the IR receiver is not supported you can use this screen to disable the interface.

If you are asked for drivers after you turn on/off the IR interface please point the driver wizard to `c:\program files\matrix orbital drivercore\drivers`