

Max 6 Software/Firmware Update



**NOTE:** The controller and display firmware for the Max6 are no longer bundled in the monitor software. You will need to download and install the monitor (70010008, v6.2.2 currently), as well as download the firmware file (70010006\_v7.1.3.nx6 currently) and save on the PC. During the update process, you will need to browse to the location where the firmware file is saved locally on the PC, and select that file to be installed.

#### **Updating Max6 Controller Firmware**

- 1. Ensure a Max6 version of the Monitor is installed on the PC.
- 2. Connect the Max6 controller to the PC via USB. The USB port on the Max6 is located in the well under the silicone plug on the front of the controller.
- 3. Power on the Max6. The LED in the well will illuminate red.



4. Open the Max6 Monitor software. Select No to search for the controller.



#### 5. Go to Help and select Update Display or Max6, or simply press F12 on the keyboard.

Max Nitrous Express: Maximizer 6 Progressive Controller	- 🗆 X
File Controller Tuning/Configuration Display Data Acquisition Help	Find
🚰 🚽 Tune #1 Tune #2 Tune #3 Update Display or Max6 F12	The Controller
About	

## 6. Select **Browse**, navigate to where the firmware file (.nx6 file) is saved on the PC, and select it.

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Controller Tuning/Configur	ration Display Data Acquisi	ition Help		Find
June #1 Tune #2 Tune #3	3			The Controller
	Lindata Cathuara		_	
	Update Software			Close
	Locate Firmware File (.nx6)	M:\Engineering\Part Numbers\70010006_NX Ma	ax6 Sys Code\v7.1.3\70010006_v7.1.3.n	k6 Browse
				Search for Modules
	File Info	Maximizer 6	Display	
	Version:	Version: 7.0.0	Version: N/A	•
	File Name:			
		Available Version:	Available Vers	ion:

## 5. Go to Help and select Update Display or Max6, or simply press F12 on the keyboard.

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File Controller Tuning/Configuration Display Data Acquisition Help	Find
📴 🚽 Tune #1 Tune #2 Tune #3 Update Display or Max6 F12	The Controller
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File Controller Tuning/Configuratio	on Display Data Acquisi	tion Help			Find	
🛛 🚰 🚽 Tune #1 Tune #2 Tune #3					The Controller	_
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	Locate Firmware File (ny6)	M.\ Engineering \ Part N	underns 70010000 NV March Sur 6	Cada \7 1 2\ 700100007 1 20	Perman	
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				Se	arch for Modules	
	File Info		Maximizer 6	Display		
	Version:		Version: 7.0.0	Version: N/A		
	File Name:					
			Available Version:	Available Version	:	

Select Search for Modules. The File Info will populate based on the file selected. The Max6 is connected, but the monitor displays a X to indicate the Max6 currently has a different version of the controller firmware (v7.0.0) than the controller firmware (v7.1.2) in the .nx6 firmware file selected (v7.1.3)\* Select Update.

NOTE: If what's currently in the controller, and what's in the firmware bundle match, the monitor displays a  $\checkmark$  and there is no **Update** button displayed.

Mitrous Express: Maximizer 6 Progressive Controller	- 🗆 X
File Controller Tuning/Configuration Display Data Acquisition Help	Find
📸 🛃 Tune#1 Tune#2 Tune#3	The Controller
Update Software Locate Rimware File (nx6) M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006 File Info Version: 70010006_v7.1.3 File Name: 70010006_v7.1.3.nx6 Firmware bundle file New version to be loade Version: 7.1.2 New version to be loade Version: 7.1.2	Close v7.1.3.nx6 Browse Search for Modules sy ion: N/A of Connected lug in USB to update d able Version : 7.0.1 w version of display firmware t being updated in this step)

**\*NOTE:** The firmware file (i.e. **70010006\_v7.1.3.nx6**) is a bundled file that contains firmware for the Max6 controller (i.e. **Version 7.1.2**) and firmware for the display (i.e. **Version 7.0.1**), as well as image files for the display. Below is an example of this firmware hierarchy using **70010006.v7.1.3**:

Firmware File: 70010006\_v7.1.3.nx6 bundles the following files:

- 90016009\_3\_disp\_app\_v7.0.1.hex
- 90016009\_3\_disp\_img\_v6.0.1.bin
- 90019000\_1\_ctrl\_app\_v7.1.2.s2
- 90019000\_MAX6\_FW\_7.0.1.dbc

You will notice these file names above the update status bar when an update is in progress.

8. A warning will be displayed reminding the user all tuning data will be erased and to save the tuning file to the PC before continuing. Select **Yes** to proceed with the update.

Maximizer 6			
All tuning data will be en Proceed with Update?	ased! Be sure to save y	our tuning file t	to the PC before continuing.
	Yes	No	

9. An update status bar will appear at the bottom of the Update Software window. When the update is in progress, the monitor will display **Boot Load Mode** in the bottom left-hand corner of the screen. When the update is complete, the status bar will display **Upload Success**, the Max6 firmware will match the available version (i.e. Version: 7.1.2) as indicated by the ✓. Select **Close** and the status of the controller will switch from **Boot Load Mode** to **Online.** 

Nitrous Express: Maximizer 6 Progre	essive Controller		
ile Controller Tuning/Configur J	ation Display Data Acquisition Help 3		Find The Controller
	Update Software		Close
	Locate Firmware File (.nx6) M:\Engineering\Pa	rt Numbers\70010006_NX Max6 Sys Code\v	7.1.3\70010006_v7.1.3.nx6 Browse
			Search for Modules
	File Info	Maximizer 6	Display
	Version: 70010006.v7.1.3 File Name: 70010006_v7.1.3.nx6	Version: 7.1.2	Version: N/A Not Connected
			ridg in 035 to update
		Available Version: 7.1.2	Available Version: 7.0.1
		Upload Success.	





#### Updating Max6 Display Firmware

- 1. Ensure a Max6 version of the Monitor is installed on the PC.
- 2. Connect the display to the PC via USB.
- 3. Power on the display. The Max6 splash screen will appear, followed by the default home screen. Select **Menu** and then **Update.**
- 4. The update screen will instruct the user to connect the display to the PC and open the Max6 Monitor. Select **Update**. The screen will go blank.



5. Open the Max6 Monitor software. Select **No** to search for the controller.

🗯 Nitrous Express: Maximizer 6 Progressive Controller		- 🗆 🗙
File Controller Tuning/Configuration Display [	Data Acquisition Help	Find The Controller
	Maximizer 6 Search for the controller?	
	Yes No	

## 6. Go to Help and select Update Display or Max6, or simply press F12 on the keyboard.

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File Controller Tuning/Configuration Display Data Acquisition Help	Find
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About	

# 7. Select **Browse**, navigate to where the firmware file (.nx6 file) is saved on the PC, and select it.

File       Controller       Tuning/Configuration       Display       Data Acquisition       Help       Find         Tune #1       Tune #2       Tune #2       Tune #3       Tune #1       Tune #2       Tune #3         Update       Software       Close       Close       Locate Firmware File (.nx6)       M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6       Browse         Search for Modules       File       Info       Maximizer 6       Display
Image: Search for Modules         File Info
Update Software       Close         Locate Firmware File (.nx6)       M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6         Browse       Search for Modules         File Info       Maximizer 6       Display
Update Software       Close         Locate Firmware File (.nx6)       M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6         Browse       Search for Modules         File Info       Maximizer 6       Display
Update Software       Close         Locate Firmware File (.nx6)       M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6         Browse       Search for Modules         File Info       Maximizer 6       Display
Update Software       Close         Locate Firmware File (.nx.6)       M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx.6         Browse       Search for Modules         File Info       Maximizer 6       Display
Update Software       Close         Locate Firmware File (nx6)       M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6       Browse         Search for Modules       File Info       Maximizer 6       Display
Locate Firmware File (.nx6) M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6 Browse Search for Modules
Locate Firmware File (.nx6) M:\Engineering\Part Numbers\70010006_NX Max6 Sys Code\v7.1.3\70010006_v7.1.3.nx6 Browse Search for Modules
Search for Modules File Info Maximizer 6 Display
File Info Maximizer 6 Display
Version: V/A Version: 7.0.0
File Name:
Available Version: Available Version:

Select Search for Modules. The File Info will populate based on the file selected. The display is connected but the monitor displays a X to indicate the display has a different version of the display firmware (v7.0.0) than the display firmware (v7.0.1) in the .nx6 firmware file selected (v7.1.3). Select Update.

NOTE: If what's currently in the display, and what's in the firmware bundle match, the monitor displays a  $\checkmark$  and there is no **Update** button displayed.

Controller Tuning/Configu	ration Display Data Acquisition Help 3		Find The Controll
	Update Software	_	Close
	Locate Firmware File (.nx6) M:\Engineering\Par	t Numbers\70010006_NX Max6 Sys Code\v	7.1.3\70010006_v7.1.3.nx6 Browse Search for Modules
	File Info Version: 70010006.v7.1.3 File Name: 70010006_v7.1.3.nx6	Maximizer 6 Version: N/A Not Connected Plug in USB to update	Display Version: 7.0.0 Update
		Available Version: 7.1.2	Available Version: 7.0.1

9. An update status bar will appear at the bottom of the Update Software window. When the update is complete, the status bar will display **Upload Success** and the monitor will show the display is now **Not Connected**. Select **Close**.

Nitrous Express: Maximizer 6 Pro	gressive Controller		
e Controller Tuning/Config	guration Display Data Acquisiti #3	n Help	Find The Controlle
	Update Software		Close
	Locate Firmware File (.nx6)	1:\Engineering\Part Numbers\70010006_NX Max6 Sys Code	e\v7.1.3\70010006_v7.1.3.nx6 Browse
			Search for Modules
	File Info	Maximizer 6	Display
	Version: 70010006.v7.	3 Version: N/A	Version: N/A
	File Name: 70010006_v	1.3.nx6 Not Connected Plug in USB to update	Not Connected Plug in USB to update
		Available Version: 7.1.2	Available Version: 7.0.1
		Upload Success.	

10. When the firmware update is complete, the display itself will return to the Max6 splash screen, followed by the home screen, and the update is complete.

![](_page_7_Picture_1.jpeg)