



GoToNova[™] Hand Controller

Flash Upgrade Manual

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GoToNova 8401 and 8402A Hand Controller Flash Upgrade Step-By-Step Instruction

1. Install cp2101(usb2com) driver



Choose the appropriate driver for your OS. In this case is a Windows XP operation system. For Windows Vista, select CP210x_VCP_Win2K_XP. Double click on it, and you will see:



Click "Next".

cense Agreement Please read the following license agreement	carefully.	
END-USER LICENSE AGREEMENT IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS THIS PRODUCT CONTAINS CERTAIN CO PARTY PROPRIETARY MATERIAL (建IC SUBJECT TO THIS END-USER LICENSE A CONSTITUTES YOUR AND (IF APPLICABL	OMPUTER PROGRAMS ENSED PRODUCT?, THE GREEMENT. INDICATIN E) YOUR COMPANY'S A	AND OTHER THIRD USE OF WHICH IS IG YOUR AGREEMENT SSENT TO AND
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I do not accept the terms of the license a	agreement	. an

Select "I accept the terms of license agreement", and click "Next"

Choose I Select fo	Destination Location older where setup will install fi	les.		22
	Install Silicon Laboratories c:\SiLabs\MCU\CP210x	CP210x VCP Drivers for Wi	ndows	Change
tallShield -		Rack	Next	Cancel

Using the default installation path, c:\SiLabs\MCU\CP210x, or specify your own path by click "Change". Click "Next". Then click "Install".

Silicon Laboratories CP210	0x VCP Drivers for Windows 2000/XP - InstallShiel
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP. Click Finish to exit the wizard.
	c Back Finish Cancel

When finished installation, click "Finish"

2. Plug the USB cable to the USB port on your PC, plug the other end of the USB cable to hand controller. Turn on the power on the mount.

3. Install the Hardware

The computer will find a new hardware and show the following screen

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy	
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time Click Next to continue.	
	<back next=""> Cancel</back>	

Select "No, not this time" and click "Next".

Found New Hardware Wiz	ard
	This wizard helps you install software for: CP2102 USB to UART Bridge Controller If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do? Install the software automatically (Recommended) Install from a list or specific location (Advanced) Click Next to continue.
	<back next=""> Cancel</back>

Select "Install from a list or specific location" and click "Next".

er that contains drivers for your hardware.	
1204	
I ISBO matlabR12 MCC My Music Program Files SiLabs CP210x Wn2K_VP Software Spectra VXIPNP	8
	My Music Program Files SiLabs MCU CP210x Software Spectra VXIPNP ubfolders, click a plus sign above. OK Car

Select "Search for the best driver in these locations," and check "Include this location in the search." Click on "Browse" and select the cp210x driver from directory c:\SiLabs\MCU\CP210x\Win2K_XP, click OK.

Found New Hardware Wizard			
Please choose your search and installation options.			
 Search for the best driver in these locations. 			
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.			
Search removable media (floppy, CD-ROM)			
Include this location in the search:			
C:\SiLabs\MCU\CP210x\Win2K_XP Browse			
O Don't search. I will choose the driver to install.			
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.			
< Back Next > Cancel			

Click "Next". The computer will starting to install the driver for the USB2COM. When the installation is done, click "Finish".

Found New Hardware Wizard		
Found New Hardware Wiz	Completing the Found New Hardware Wizard The wizard has finished installing the software for: CP210x USB Composite Device	
	Click Finish to close the wizard.	
	K Back Finish Cancel	

Now you computer should be ready for Firmware Upgrading, computer communication with the mount via ASCOM platform and planetarium software applications. However, you need to find

assigned COM port number for the USB connection. To do so, right click "My Computer", and click "Properties"

Enternet Explorer Microsoft Outlook Microsoft Word	My Document	5
 Mozilla Firefox iOptron Downloader Launch LPC210x_ISP.exe (2) Microsoft PowerPoint ICS Viewer 	My Network F	Open Browse with Paint Shop Pro Studio Explore Search Manage Scan with AVG
WinRAR Adobe Reader 8 Paint Shop Photo Album 5 Paint All Programs	 Help and Suppo Search Run 	Map Network Drive Disconnect Network Drive Show on Desktop Rename Properties

Click "Hardware", click "Device Manager"



Double click "Ports(COM & LPT)", find out the COM number and write it down (in the following figure, it is COM4)

📕 Device Manager	
File Action View Help	
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DAVINCI Batteries Computer Disk drives Display adapters DVD/CD-ROM drives DVD/CD-	

4. Upgrade the Flash Memory Double click and open "iOptron Flash Downloader"



On the interface:

iOptron Flash Downloader V1.0	
Serial Port: COM1 -	<i>i ptron</i>
Start Download	
	0%

 IOptron Flash Dow Serial Port: Open Data Fil Start Downloa 	COM1 COM1 COM2 COM3 COM4 COM5 COM6 COM7 COM8 COM9	i Optron
		0%

Select appropriate port (in this case, COM4):

Click "Open Data File", and select appropriate file

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Open Dat	Look in: 🔀	Flash_Files) 💣 📰 •	UII
	🗖 flash_mide	dle			-
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	File name:	flash_middle		Open	
	File name: Files of type:	flash_middle Bin File (*.bin)		Open Cancel	
	File name: Files of type:	flash_middle Bin File (*.bin)	×	Open Cancel	

and click "Open".

iOptron Flash Downloader V1.0	
Serial Port: COM4 Open Data File C:\Documents and Settings\Chris\Desktop Start Download	Software\Flash_Files\flash_middle.bin
	0%

Click "Start Download"

It shows "Please reset GOTONOVA[GOTOSTAR], waiting for connection..."

On the hand controller, push "MENU", and select "Set Up GOTONOVA", push "ENTER", then select "Upgrade firmware", push "ENTER" and the upgrade starts.

iOptron Flash Downloader V1.0	
Serial Port: COM4 Open Data File C:\Documents and Settings\Chris\Desktop\S Start Download	Software\Flash_Files\flash_middle.bin
Please reset the GOTONOVA(GOTOSTAR), w Connected. Processing Total progress may need 5 minutes. Please wait	vaiting for connection
	10%

iOptron Flash Downloader V1.0	
Serial Port: COM4 Open Data File C:\Documents and Settings\Chris\Desktop	Software{Flash_Files{flash_middle.bin
Start Download	
Please reset the GOTONOVA(GOTOSTAR), Connected. Processing Total progress may need 5 minutes. Please wait Flash download successfully finished!	waiting for connection
	100%

Now the upgrade is finished.

Typical Errors:

- 1. Invalid Port Number: in Device Manager, make sure you have the correct COM port number for CP210x.
- 2. Wrong ".bin" file: make sure you have the correct ".bin" file for flash upgrade.
- 3. Wrong downloader, you should use the Flash Downloader instead of iOptron Downloader.

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