Installation Guide for Windows 7-How to install CMD Driver, Micro-Manager and configure for MPC-200 on PC

Download **SI CDM Unified USB Driver** (www.sutter.com \rightarrow News and Download \rightarrow Software downloads) under the MPC200 Software heading.

Firefox *	MAX 200 day and a		Sec. and			X
Sutter Instruments Software Downloads +						
(+) (www.sutter.com/news/software_downlo	ads.html	 	Soogle	Q	俞	•
						*
	MPC-200 SOFTWARE					
	The MPC-200 controller is used for the systems. It is equipped with a USB inter	MPC-385, MPC rface for compu	-325 and other manipul Iterized control.	ator		
	NEW V2.08.00: Sutter Instrument Unified USB driver for the MPC-200 controller	ed USB driver				
	SI CDM Unified USB Driver > Download					
	SI CDM Driver Installation Guide for Wi	ndows XP > <u>D(</u>	ownload			
	SI CDM Driver Installation Guide for Wi	ndows 7 > Dov	vnload			
	NEW USBtesterV3.zip - USB community controller with firmware v3.12 or higher	cations test pro > <u>Download</u>	gram for use with the MF	PC-200		
	USBv3.pdf - Explains the command syn firmware v3.12 or higher > Download	tax used for pro	ogramming the MPC-20	0 with		
	USBtesterV1.exe - USB communication controller with firmware v1.11 or lower >	ns test program Download	n for use with the MPC-2	00		
	USBv1.doc - Explains the command syn firmware v1.11 or lower > <u>Download</u>	ntax used for pr	ogramming the MPC-20	00 with		
	You can gain additional advanced capa MicroManager, a free software package scientific devices.	bilities with the that can be use	MPC-200 controller by u ed to control a multitude	using of		
	Please reference the PDF documents b install MicroManager and how to setup	elow for instru the MPC-200 w	ctions on how to downlo ithin MicroManager.	ad and		
	How to Install and setup MicroManage	r for use with l	MPC-200 > Download			
	MPC-200 / MicroManager Quick Reference	ence Guide > 🗋	ownload			

You can also download the **SI Lambda USB Driver.** Ignore the heading Lambda Software. This driver works for the MPC200/ROE200 with Windows 7 operating systems too.





Installing the ROE200 and the VCP:

Attach ROE-200 to computer using USB, turn on MPC-200, Windows will attempt to install driver. Wait for "the Driver cannot be found" message to appear in the lower right corner, then

Open Device Manager→ Other devices→ Sutter Instrument ROE-200 Right click → Update Driver Software

🚔 Device Manager	
File Action View Help	
♦ ♦ □ □ □ 0	x 15
MishaW7-PC Disk drives Disk drive	Update Driver Software
 Jawa Sound, video and game controllers Jawa System devices Jawa Universal Serial Bus controllers 	Uninstall Scan for hardware changes Properties
Launches the Update Driver Software Wizard	for the selected device.

Browse your computer for driver software (saved on the desktop as SI_CMD_Driver). Next. Install. Close.

0	Update Driver Software - Sutter Instrument ROE-200	
	How do you want to search for driver software?	
	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
	Browse my computer for driver software Locate and install driver software manually.	
		Cancel
,		~
G	Update Driver Software - Sutter Instrument ROE-200	~
	Browse for driver software on your computer	
	Search for driver software in this location:	
	C:\Users\misha\Desktop\SI_CDM_Driver Browse	2
	 Include subfolders Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all of software in the same category as the device. 	driver
		Next Cancel

) (Update Driver Software - Sutter Instrument ROE-200
I	installing driver software
	Windows Security
	Would you like to install this device software?
	Name: CDM Driver Package - Bus/D2XX Driver Publisher: Sutter Instrument Corp
	Always trust software from "Sutter Instrument Corp".
	You should only install driver software from publishers you trust. <u>How can I decide which</u> <u>device software is safe to install?</u>
ノ	2 Opdate Driver Software - Sutter Instrument ROE-200
۷	Vindows has successfully updated your driver software
w	/indows has finished installing the driver software for this device:
	Sutton Instrument POE 200
4	

Next step is to set up the Virtual COM port for the ROE-200. Repeat the steps to update the driver, browsing the SI_CDM_ Driver folder on the desktop

File Action View Help Image: Second Sec	
Image: Second	
Disk drives Display adapters DVD/CD-ROM drives Human Interface Devices Keyboards Mice and other pointing devices Monitors Network adapters Other devices Update Driver Software Ports (COM & L) Processors Sound, video an	
Scan for hardware changes Viversal Serial Generic USB Hub Generic USB Hub Tintel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E26 Tintel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E2D Tintel(R) USB 3.0 eXtensible Host Controller Tintel(R) USB 3.0 Root Hub Sutter Instrument ROE-200 USB Root Hub USB Root Hub	E
Launches the Update Driver Software Wizard for the selected device.	

0	Update Driver Software - USB Serial Port	x
	Browse for driver software on your computer	
	Search for driver software in this location: C:\Users\misha\Desktop\SI_CDM_Driver Browse Include subfolders 	
	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driv software in the same category as the device.	/er
	Ne	t Cancel



Now Device Manager \rightarrow Universal Serial Bus controllers show a Sutter Instrument ROE-200(result of ROE installation). If you check Device Manager \rightarrow Ports, the ROE200 will show as a COM port (result of VCP installation).

Note: If you are using the ROE as a true USB device, such as with USBTester, you can turn off the VCP:



Right Click Sutter Instrument ROE-200 and go to Properties. In the Properties Window pick the Advanced tab and unclick Load VCP:

File Action View Help Image: Subset of the set of th	Bevice Manager	and the second	
Disk drives Disk drives Display adapters Mice and other pointing devices Monitors Network adapters Other devices Monitors VisB Serial Port Ports (COM & LPT) Processors Storage controllers System devices Generic USB Hub Generic USB Hub Generic USB Hub Generic USB Hub Intel(R) VSB 3.0 Rot Hub USB Root Hub USB Root Hub OK Cancel	File Action View Help		
Disk drives Display adapters DVD/CD-ROM drives Muman Interface Devices Mice and other pointing devices Monitors Metwork adapters Other devices USB Serial Port Ports (COM & LPT) Processors Sutar Instrument ROE-200 Configuration Use these settings to override normal device behaviour. Configuration Use th	(= -> III II II III IIII III III III IIII III III III III III III III III III III		
Juspia yadapters Uby D/CD-ROM drives Human Interface Devices Keyboards Keyboards Mice and other pointing devices Monitors Network adapters Other devices USB Serial Port Ports (COM & LPT) Porcessors Sound, video and game controllers System devices Generic USB Hub Intel(R) 7 Series/C216 Chipset Family Intel(R) USB 3.0 Rtensible Host Controllers Sutter Instrument ROE-200 USB Root Hub Sutter Instrument ROE-200 USB Root Hub Sutter Instrument ROE-200 USB Root Hub	Disk drives	Sutter Instrument ROE-200 Properties	
Human Interface Devices Keyboards Mice and other pointing devices Monitors Network adapters Other devices USB Serial Port Ports (COM & LPT) Processors Sund, video and game controllers System devices Universal Serial Bus controllers Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami USB Root Hub USB Root Hub USB Root Hub	Display adapters Display adapters DVD/CD-ROM drives	General Advanced Driver Details	
 Mice and other pointing devices Monitors Network adapters Other devices Other devices Other devices Ports (COM & LPT) Processors Sound, video and game controllers System devices Universal Serial Bus controllers Generic USB Hub Intel(R) 7 Series/C216 Chipset Family Intel(R) 7 Series/C216 Chipset Family Intel(R) USB 3.0 extensible Host Co Intel(R) USB 3.0 Root Hub Sutter Instrument ROE-200 USB Root Hub USB Root Hub 	 Human Interface Devices Keyboards 	Sutter Instrument ROE-200	
 Network adapters Other devices USB Serial Port Ports (COM & LPT) Processors Sound, video and game controllers Soystem devices Universal Serial Bus controllers Generic USB Hub Generic USB Hub Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) 7 Series/C216 Chipset Fami Intel(R) USB 3.0 extensible Host Co USB Root Hub USB Root Hub 	 Mice and other pointing devices Monitors 	Configuration	
 USB Serial Port Ports (COM & LPT) Processors Sound, video and game controllers Storage controllers System devices Universal Serial Bus controllers Generic USB Hub Generic USB Hub Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) USB 3.0 eXtensible Host Co USB Root Hub USB Root Hub 	 Network adapters Other devices 	Use these settings to override normal device behaviour.	
 Processors Sound, video and game controllers Storage controllers System devices Universal Serial Bus controllers Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) USB 3.0 extensible Host Co Intel(R) USB 3.0 Root Hub Sutter Instrument ROE-200 USB Root Hub 	USB Serial Port	✓ Load VCP	
 Sourde Controllers System devices Universal Serial Bus controllers Generic USB Hub Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) VSB 3.0 extensible Host Co Intel(R) USB 3.0 extensible Host Co Sutter Instrument ROE-200 USB Root Hub USB Root Hub 	Processors		
System devices Universal Serial Bus controllers Generic USB Hub Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) USB 3.0 extensible Host Co Intel(R) USB 3.0 extensible Host Co Sutter Instrument ROE-200 USB Root Hub USB Root Hub	Storage controllers		E
Generic USB Hub Generic USB Hub Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) USB 3.0 eXtensible Host Co Intel(R) USB 3.0 Root Hub Sutter Instrument ROE-200 USB Root Hub USB Root Hub			
Generic USB Hub Intel(R) 7 Series/C216 Chipset Fami Intel(R) 7 Series/C216 Chipset Fami Intel(R) USB 3.0 eXtensible Host Co Intel(R) USB 3.0 extensible Host Co Sutter Instrument ROE-200 USB Root Hub USB Root Hub VSB Root Hub	Generic USB Hub		
Intel(K) 7 Series/C210 Chipset Fami Intel(K) USB 3.0 eXtensible Host Co Intel(R) USB 3.0 Root Hub USB Root Hub USB Root Hub	Generic USB Hub		
Intel(R) USB 3.0 eXtensible Host Co Intel(R) USB 3.0 Root Hub USB Root Hub USB Root Hub	Intel(R) 7 Series/C216 Chipset Fami		
Intel(R) USB 3.0 Root Hub Sutter Instrument ROE-200 USB Root Hub USB Root Hub USB Root Hub USB Root Hub	Intel(R) USB 3.0 eXtensible Host Co		
USB Root Hub USB Root Hub	Intel(R) USB 3.0 Root Hub	L	
USB Root Hub	USB Root Hub	OK Cancel Help	
	USB Root Hub		-

In the example above, the COM port number was established as COM4. Some programs such as μ -Manager prefer the lowest COM port number possible. To change the COM port number, follow the steps below:

🚔 Device Manager			l		
File Action View Help					
🧇 🌒 🖬 🗐 🚺 🖬 🕺 😭	N 15			200 LICD Contain	X X
MishaW7-PC		5	utter Instrument KOE-	200 USB Serial P	ort (COM4) Properties
⊳			General Port Settings	Driver Details	
🖻 👝 Disk drives		1		Direct Docume	
Display adapters					
DVD/CD-ROM drives				Bits per second	d: 9600 👻
Human Interface Devices					
Keyboards				Data bit	s: 8 🔹
Mice and other pointing device	es				
Network adapter				Parity	/: None 👻
Ports (COM & LPT)					
Communications Port (CO	M1)			Stop bits	:: 1
Intel(R) Active Managemen	nt Technology - SOL (COM3)				
Sutter Instrument ROE-200	USB Serial Port (COM4)			Flow contro	I: None 🔻
Processors	Update Driver Software				
Sound, video and game cor	Disable				dypaged Resters Defaulta
Storage controllers	Uninstall				Hestore Deraults
System devices					
Universal Serial Bus control	Scan for hardware changes				
Generic USB Hub	Properties				
Generic USB Hub	ret Family USB Enhanced Hort Controller - 152				
Intel(R) 7 Series/C216 Chips	set Family USB Enhanced Host Controller - 1E2				
Intel(R) USB 3.0 eXtensible	Host Controller				
Intel(R) USB 3.0 Root Hub					
Sutter Instrument ROE-200					OK Cancel
🏺 USB Root Hub					
🛄 🖶 USB Root Hub					
Deens property sheet for the current select	tion.				
- party sheet of the content select					

Use drop down menu to choose the lowest COM port number not in use. OK, OK.

vanced Settings for COM4	(math)	_	_	¥ ×
COM Port Number:	COM4	•		ОК
	COM1 (in use)			- OK
USB Transfer Sizes	COM2	Â		Cancel
Select lower settings to corre	COM3 (in use) COM4	Ξ	d rates.	Defeulte
Select higher settings for fas	COM5 COM6			Defaults
Receive (Bytes):	COM7 COM8			
Transmit (Bytes):	COM10 COM11			
RM Options	COM12 COM13		Miscellaneous Options	
	COM14		iniscellaricous options	
Select lower settings to corre	COM15 COM16		Serial Enumerator	V
Latency Timer (msec):	COM17 COM18		Serial Printer	
Editing finite (note)	COM19 COM20		Cancel If Power Off	
Timeouts	COM21 COM22		Event On Surprise Removal	
Minimum Read Timeout (mse	COM23 COM24		Set RTS On Close	
Minimum Write Timeout (mse	COM25 COM26		Disable Modem Ctrl At Startup	
	COM27 COM28			
· · · · · · · · · · · · · · · · · · ·	COM29			

The Device Manager should now show the change to the COM port number

🚔 Device Manager	
File Action View Help	
A Mark-WZ DC	
Mishdw/-PC	
Disk drives	
Display adapters	
DVD/CD-ROM drives	
🖉 Human Interface Devices	
⊳ - Keyboards	
Mice and other pointing devices	
🛛 🕞 🛄 Monitors	
🛛 ⊵ 💇 Network adapters	
Ports (COM & LPT)	
Communications Port (COM1)	
Intel(R) Active Management Technology - SOL (COM3)	
Sutter Instrument ROE-200 USB Serial Port (COM2)	
Processors	
Sound, video and game controllers	
A Diversal Serial Bus controllers	1
Generic USB Hub	
Generic USB Hub	
Intel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E26	
Intel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E2D	
Intel(R) USB 3.0 eXtensible Host Controller	
🟺 Intel(R) USB 3.0 Root Hub	
🚽 🚽 Sutter Instrument ROE-200	
USB Root Hub	
USB Root Hub	

Establishing and configuring the USB port connection for the ROE-200 is complete.