Setting up the ethernet port

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Note: the below screendumps were taken from a Windows 10 environment. Other Windows versions may have slightly different windows. Your pc will need a free Ethernet connection, which will be dedicated to the Cyborg engraver. Add a 2nd network card if needed. Connect the X-300 using the supplied CAT 6A ethernet cable. Then setup the Ethernet adapter. Go to the windows network settings, the network adapter with "No network access" is the one for the X-300:



Click on the adapter with no network access, here: "LAN-verbinding 4", the text in your PC may be different.

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Connection		
IPv4 Connectivi	ty: No network acc	ess
IPv6 Connectivi	ty: No network acc	ess
Media State:	Enal	bled
Duration:	1 day 00:44	4:33
Speed:	100.0 M	1bos
Details	100.014	
Details	100.014	
Details	Sent — Recei	ved
Details Activity Packets:	Sent — Receiv 175	ved

Click on the "Properties" button.

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Networking	Sharing	ı	15
Connect us	ing:		
🔮 Intel	R) PRO/100	+ PCI-adapter	
This conne	ction uses the	e following items:	Configure
	S Packet So e and Printer emet Protoco emet Protoco	cheduler Sharing for Micros ol Version 6 (TCP) ol Version 4 (TCP)	soft Networks /IPv6) /IPv4)
🗆 🔺 Lir	nk-Layer Top	ology Discovery N ology Discovery F	Napper I/O Driver Responder
Insta	nk-Layer Top	ology Discovery N ology Discovery F Uninstall	Responder Properties
Insta Descriptio Transmis wide are across d	II sion Control a network pro- verse interco	ology Discovery N ology Discovery F Uninstall Protocol/Internet otocol that provide onnected networks	Properties Protocol. The default es communication s.

Mark the option TCP/IP V4 only and uncheck all the other options, then click on the "properties" button.

rierai				
ou can get IP settings assigned a his capability. Otherwise, you ner or the appropriate IP settings.	utomatically if y ed to ask your n	our ne etwor	etwork sup k administr	ports
Obtain an IP address automa	tically			
• Use the following IP address:				
IP address:	172 . 22	. 2	. 101	
Subnet mask:	255 . 25	5.25	5.0	
Default gateway:				
Obtain DNS server address a	utomatically			
Use the following DNS server	addresses:			
Preferred DNS server:				
Alternate DNS server:				
Validate settings upon exit			Advanc	ed

The PC ethernet adapter gets IP Address 172.22.2.101. The Cyborg X-300 is setup for 172.22.2.100. Press OK, now you can test if the network is working, click the Windows Start button, select all programs \Rightarrow accessories \Rightarrow command prompt.

In the command prompt, enter "ping 172.22.2.100" and hit the Enter key. When the connection is OK, you should see:



If the connection would fail you will see the following:



If you see this problem, check your cable and your network settings again. Also check that the yellow led on the X-300 ethernet port is flashing at approximately 1Hz.

Set admin mode and switch off UAC

The Cyborg pendent software needs real-time priority on Windows to control your machine correctly. This is only allowed with Admin rights, so make sure the user has Admin Rights, these screens are from Windows 7, they are similar on Windows 8, 10 and 11: Switch off "User Account Control" (=set to the lowest level)

👻 User Acco	ount Control S	Settings	×
Choose User Acco	when to l ount Control	be notified about changes to your computer helps prevent potentially harmful programs from making changes to your computer. ser Account Control settings	*
Alway	's notify		
-	-	 Never notify me when: Programs try to install software or make changes to my computer I make changes to Windows settings 	н
– – Never	- notify	Not recommended. Choose this only if you need to use programs that are not certified for Windows 7 because they do not support User Account Control.	
		Cancel	

The Cyborg pendent application must be started as Administrator and the user starting it must have admin rights.

Right click the mouse on the Cyborg pendent Icon and then select run as Administrator on Windows 7/8/10/11.

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