

# Connecting XN1 Ready Products Directly to PC via Ethernet

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This guide will show you how to directly connect XN1 Ready products such as the RL1, SX1, PT1 and OA1 to PC via Ethernet.

For more information, please visit [www.jgroptics.com](http://www.jgroptics.com) or email [support@jgroptics.com](mailto:support@jgroptics.com)



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## 1. Download and Install *XN1 Terminal*.

The software is available on: <https://jgroptics.com/downloads/software>

## 2. Download and Install the *NI VISA runtime*.

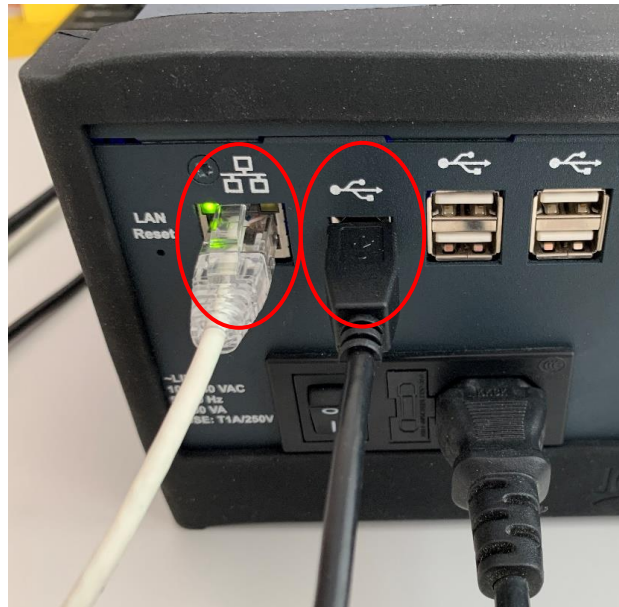
The drivers are available on: <https://www.ni.com/cs-cz/support/downloads/drivers/download.ni-visa.html>

## 3. Connect your XN1 Ready device to PC using the following cables:

USB 2.0 A (PC) to USB B (XN1 device)

Ethernet RJ-45 cable

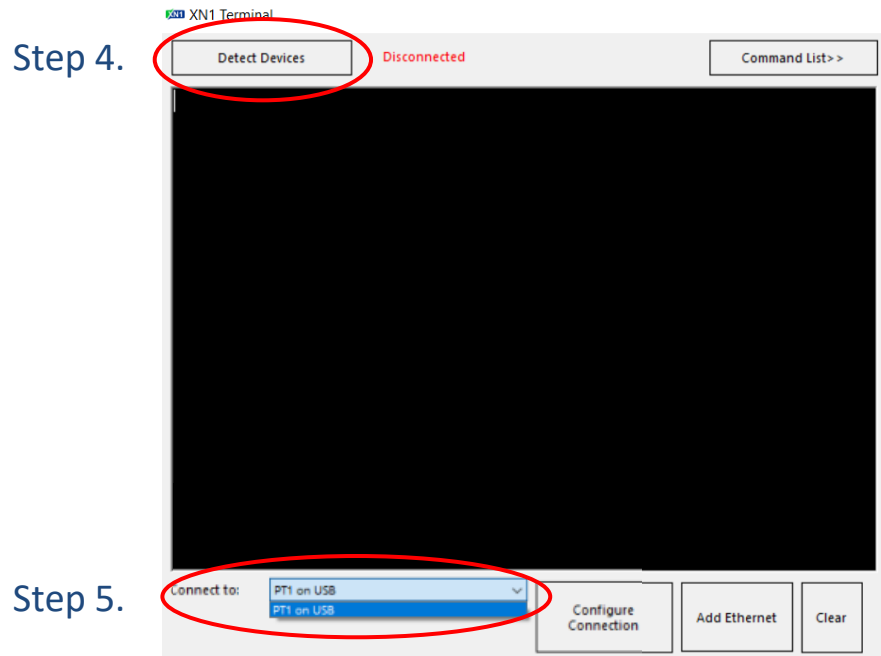
### Step 3.



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4. Open the *XN1 Terminal* software and click ***Detect Devices***

5. Open the *Connect to:* dropdown menu and select your device on USB



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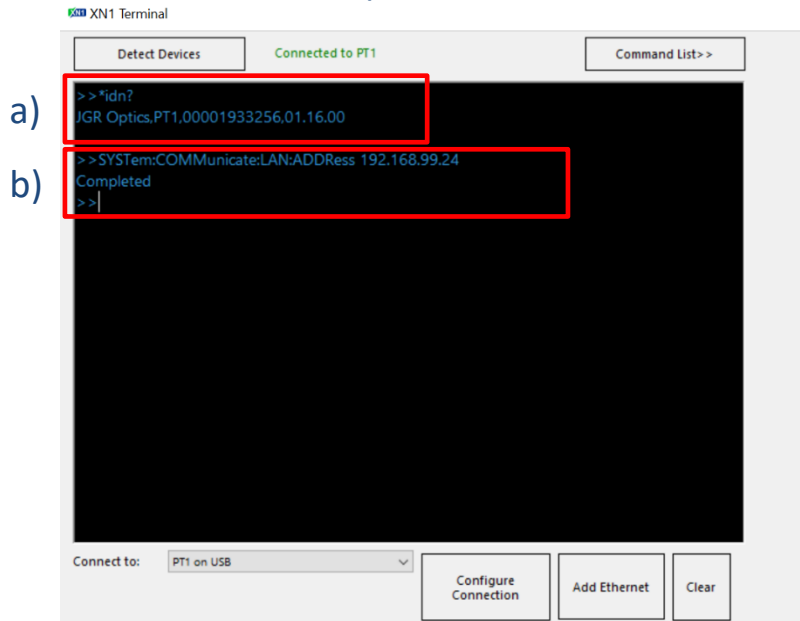
6. In the terminal window enter the following commands:

a) `*idn?` then press *Enter* (confirm communications)

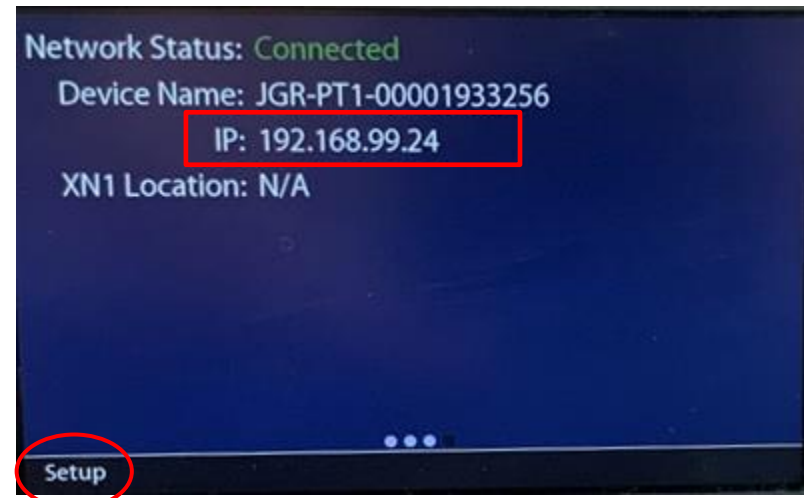
b) `SYST:COMM:LAN:ADDR "192.168.99.24"` then press *Enter* (set the static IP address)

7. In the *Setup* page on your device, confirm the IP address has been set

Step 6.



Step 7.



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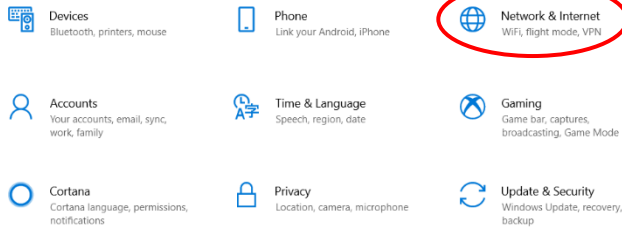
8. Change your computer to a static IP Address. In Windows 10, go to *Settings* then click ***Network & Internet***

9. Click ***Change adapter options***

## Step 8.

Windows Settings

Find a setting



## Step 9.

Status

Network status



You're connected to the Internet  
If you have a limited data plan, you can make this network a metered connection or change other properties.

[Change connection properties](#)

[Show available networks](#)

Change your network settings

**Change adapter options**  
View network adapters and change connection settings.

**Sharing options**  
For the networks that you connect to, decide what you want to share.

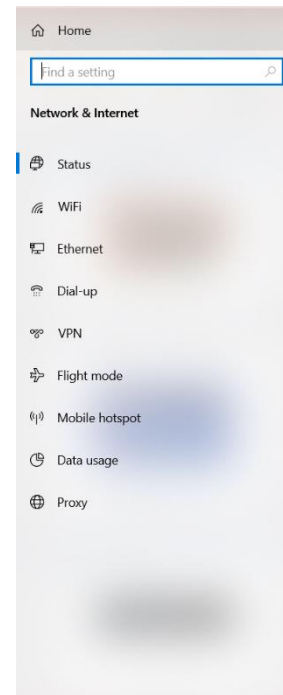
**Network troubleshooter**  
Diagnose and fix network problems.

[View your network properties](#)

[Windows Firewall](#)

[Network and Sharing Centre](#)

[Network reset](#)



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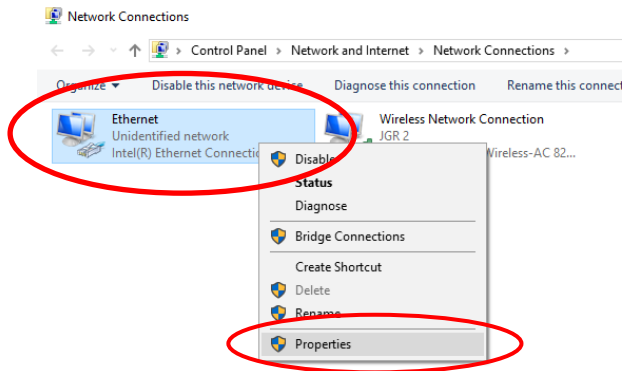
10. Right-click on *Ethernet* which has an *Unidentified network* and select **Properties**

11. Select Internet **Protocol Version 4 (TCP/IPv4)** and click on **Properties**

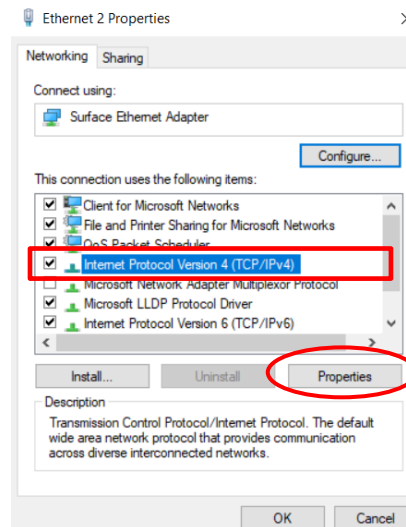
12. Select **Use the following IP address:** and enter the following information:

IP Address: 192.168.99.3  
Subnet Mask: 255.255.255.0  
Default gateway: (Leave Blank)

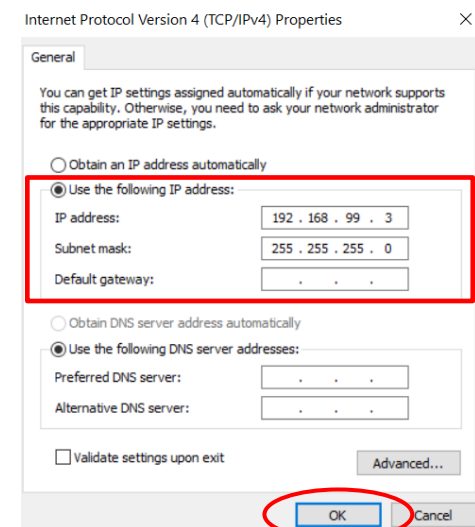
Step 10.



Step 11.



Step 12.



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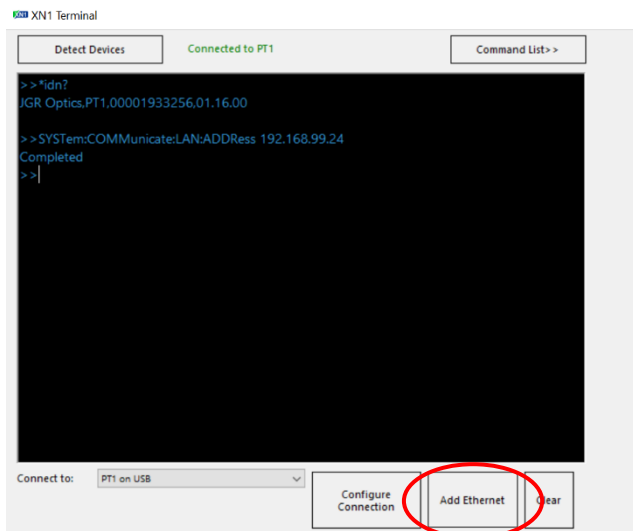
13. Go back to the *XN1 Terminal* software and click **Add Ethernet**

14. Enter the following information:

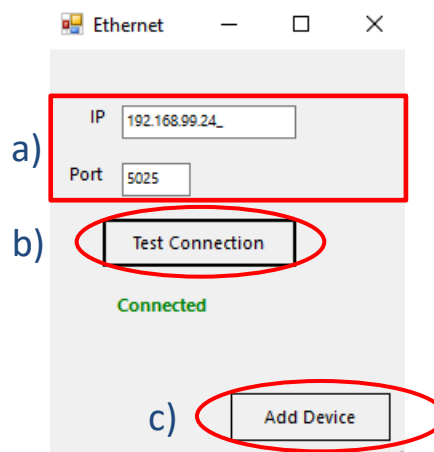
- a) IP: 192.168.99.24  
Port: 5025
- b) Click *Test Connection*
- c) Click *Add device*

15. You now have a terminal window connected to the device via Ethernet. The USB cable is no longer required and can be disconnected.

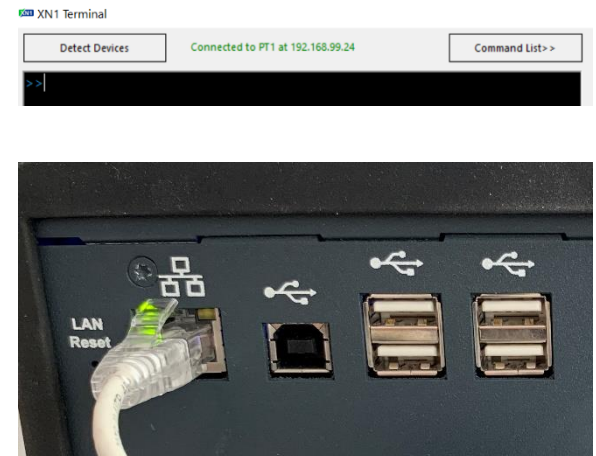
Step 13.



Step 14.



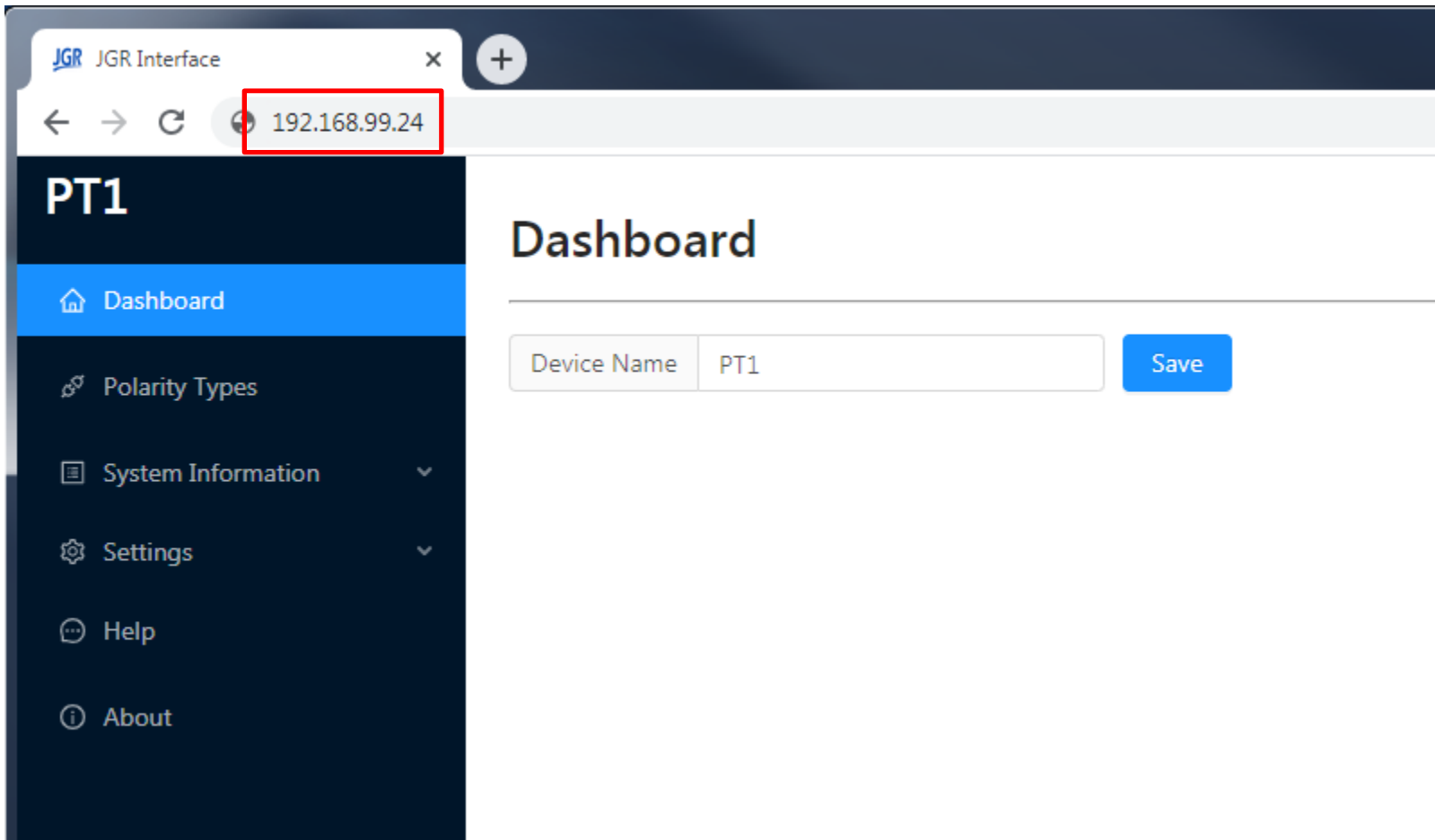
Step 15.





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16. To access your device and check if your internal webserver is set correctly, enter 192.168.99.24 in any web browser (recommended: *Google Chrome*). The webpage should load within a few seconds.



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**NOTE:** To reset the Ethernet connection back to DHCP (default dynamic IP address)

- a) Log onto the device webpage by typing the IP address in any browser
- b) Go to **Settings** -> **Network Settings**
- c) Enable **Use DHCP**
- d) Click **Save**

PT1

Network Settings

MAC Address: a0:28:33:50:02:66

mDNS Hostname JGR-PT1-00001933256

Use DHCP:  No

IP Address 192.168.99.24

Subnet Mask 0.0.0.0

Gateway Address 0.0.0.0

XN1 Address N/A

Save Reset

Note: After changing your IP address, you will need to type the new device IP address into the web browser to log into the device.

PT1

Network Settings

MAC Address: a0:28:33:50:02:66

mDNS Hostname JGR-PT1-00001933256

Use DHCP:  Yes

IP Address 192.168.99.24

Subnet Mask 0.0.0.0

Gateway Address 0.0.0.0

XN1 Address N/A

Save Reset

Note: After changing your IP address, you will need to type the new device IP address into the web browser to log into the device.