CONNECT SPIDER AND EDM - CONFIGURE IP ADDRESS – 7.0

Purpose	Configure Spider IP address on EDM version 7.0 to connect Spider and EDM
OS	Windows 7 SP1 or newer
Version	EDM version 7.0.0.11 or newer

CONTENTS

A. DETERMINE SPIDER'S CURRENT IP ADDRESS

A1. BY DEFAULT AS ARRIVED

All Spider shipped from Crystal Instruments since **May 2018** will be configured to Static IP Address to increase connection stability. The pre-configured Static IP Address by default is:

IP Address	**172**	**0**	**0**	**100**
Subnet Mask	**255**	**255**	**255**	**0**
Default Gateway	**172**	**0**	**0**	**1**

Go through step [**B**] and [**C**] to configure the Spider and the computer to static IP address.

Contact your IT department for available IP addresses for the Spider and the computer.

A2. UNKNOWN

If you are not sure what's the IP address of the Spider or it has an IP address conflict to another device, here is the procedure to reset the Spider to a known IP address:

On the back of Spider, press and hold the **Reset** button for **4 seconds**. The Spider will be set to static IP address at:

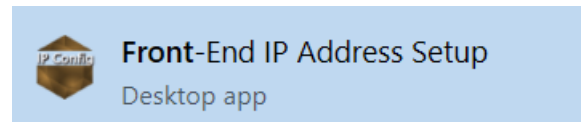|				
IP Address	**192**	**168**	**1**	**153**
Subnet Mask	**255**	**255**	**255**	**0**
Default Gateway	**192**	**168**	**1**	**5**

This address is set by default for all Spiders via hardware reset button.

Go through step [**B**] and [**C**] to configure the Spider and the computer to static IP address.

Contact your IT department for available IP addresses for the Spider and the computer.
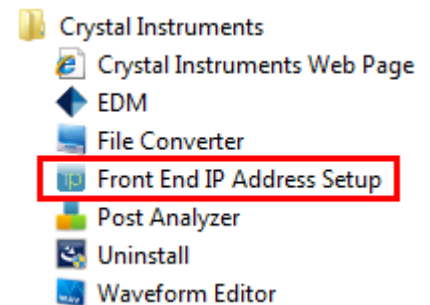
B. CONFIGURE SPIDER'S IP ADDRESS

WINDOWS 8, 8.1 AND 10

On keyboard, press ⊞ + **S**

Type in the **Search Bar**: "Front-End IP Address Setup".

Select **Front-End IP Address Setup**

WINDOWS 7

Go to **Program Files** (**All Programs**) > **Crystal Instruments** > **Front-End IP Address Setup**.

All other EDM applications must be closed before running **Front-End IP Address Tool**.

Here, press **Refresh** button and a list of detected Spider Unit will be populated.
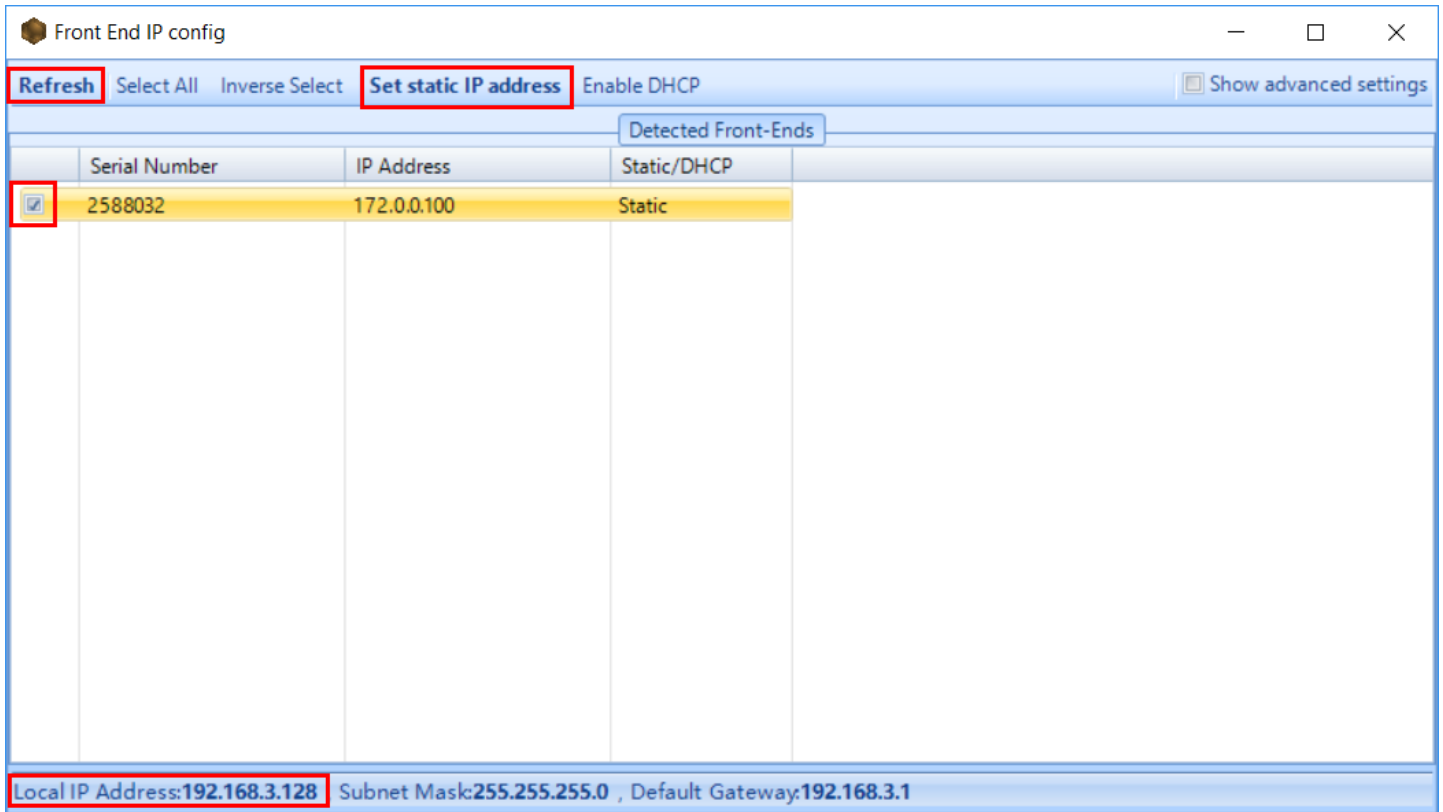
If the computer and the Spider are on the same network, the *Spider system* will appear in the list.
Click to select and highlight the *Spider system* which has the IP address indicated in **Step A** (identified by Serial Number).
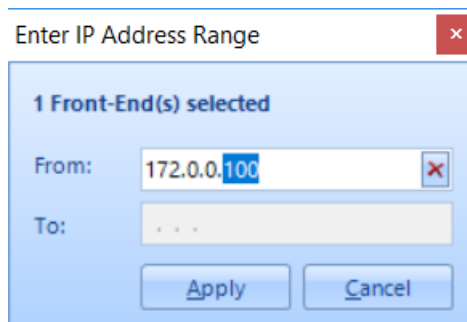Select the option available:

[**Set static IP address**]   This option will change the Spider system IP to a specific value which will only be connected by a computer on the same domain. Enter the IP address so that the first 3 values are identical to the desired domain.

A dialog will appear, enter the new IP address for the Spider and click **Apply**.

In this example, the IP address of the Spider should be 192.168.3.xxx instead of 172.0.0.100.

Proceed to Step [**C**] to configure the computer's IP address.
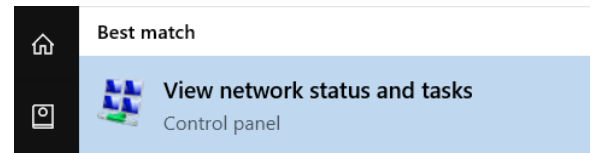
C. CONFIGURE STATIC IP ADDRESS ON PC

Now, we know what IP address the Spider is currently at, from part [**A**], it is much easier for us to connect and detect Spider via the network. We will configure our computer IP address, so it will be in the same domain as Spider system to connect it.
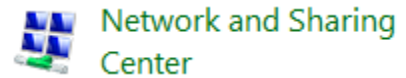
WINDOWS 8, 8.1 AND 10

On keyboard, press ⊞ + **S**

Type in the **Search Bar**: "*View network status and tasks*".
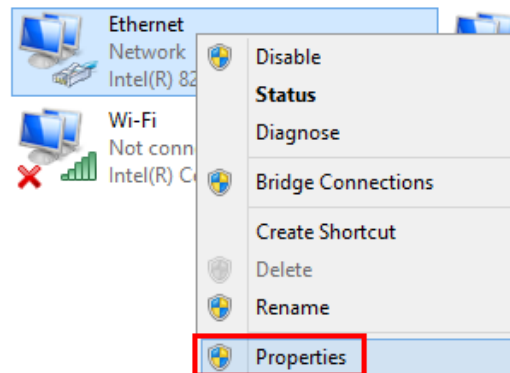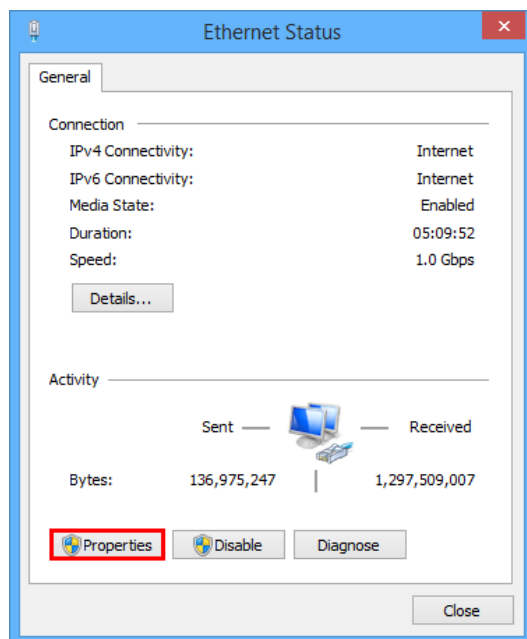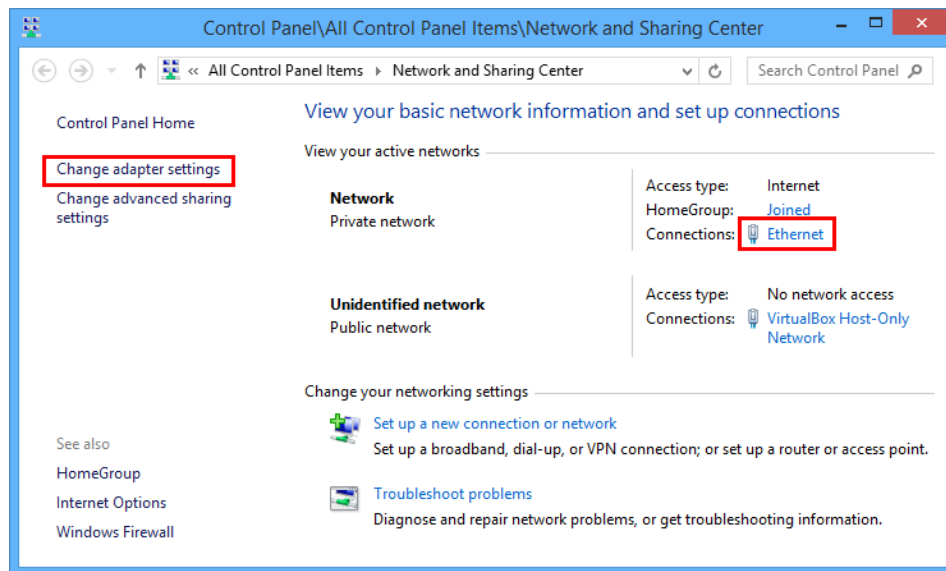
Select **View network status and tasks**.
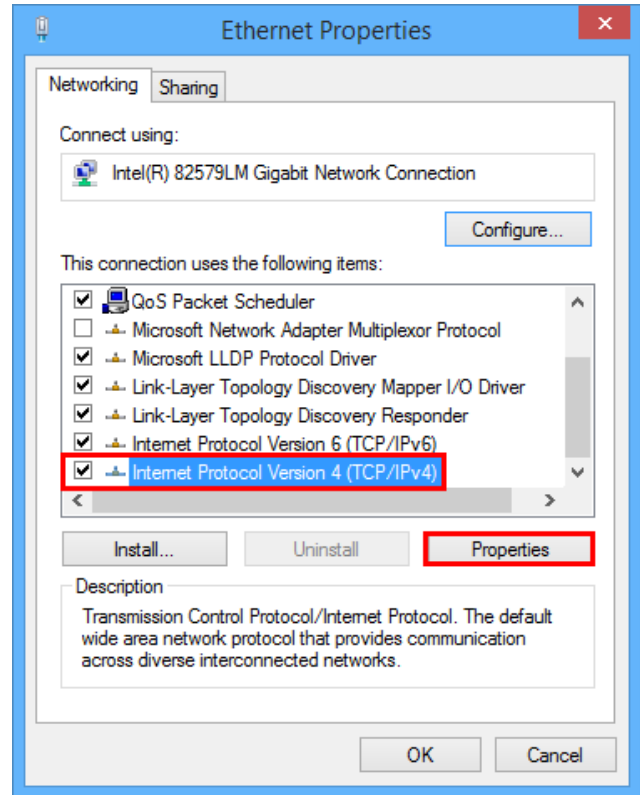
WINDOWS 7

Go to **Control Panel**, select **Network and Sharing Center**.

Network and Sharing Center window will open. Click on the **Ethernet** connection you're connected to the Spider with.

Or, click on **Change adapter settings**, right click on your Ethernet connection and select **Properties**

Ethernet Properties window will open. Scroll down on the list, click to select **Internet Protocol Version 4 (TCP/IPv4)**.
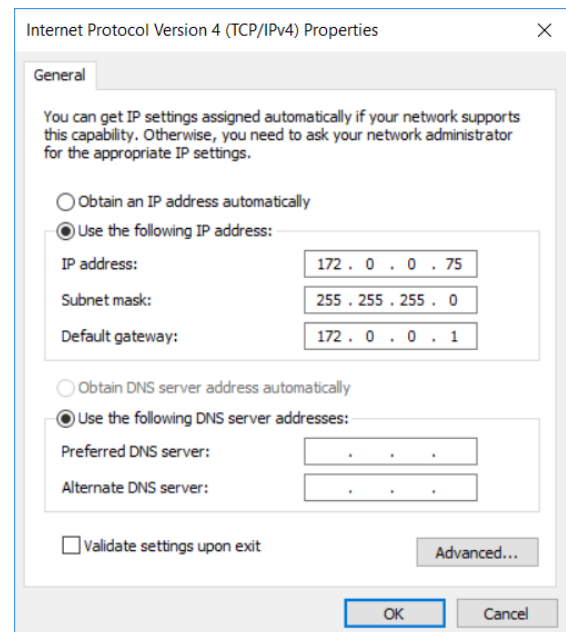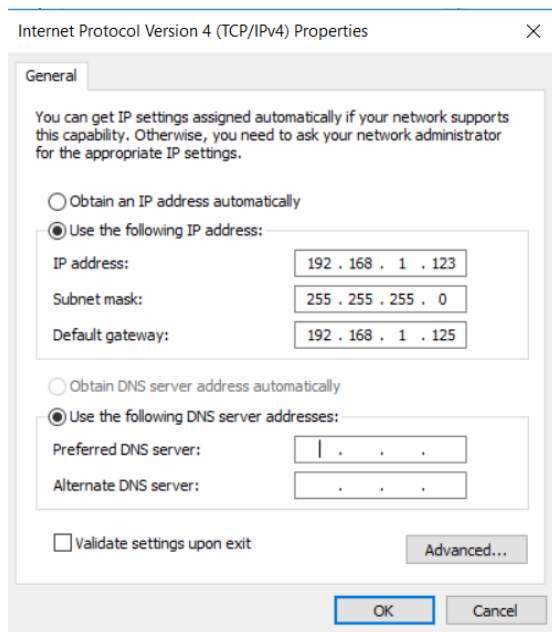
Select **Use the following IP address**, set **IP address**, **Subnet mask**, and **Default Gateway** to be identical to those when [*Obtain an IP address automatically*] is selected so that the computer will be on the same domain network as the Spider

If it wasn't [*Obtain an IP address automatically*], set **Default Gateway** and **Subnet mask** identical to the Spider. Set the first 3 values of IP address to be identical to the Spider's IP address and the *fourth* value should be different from the Spider's IP.

When the changes are made. Press **OK** on all to apply settings.

The left screenshot below gives an example of a computer's IP address when the Spider's IP is 192.168.1.xxx.

The right screenshot below gives an example of a computer's IP address when the Spider's IP is 172.0.0.xxx.

The static IP address is recommended on both Spider and the computer to eliminate the low probability of DHCP server going offline.

Now the user is ready to run EDM software with Spider system.