



Alpao Deformable Mirror Gigabit interface (DEv7)

Quick Start Guide

1 Important Notice

Read the general Quick Start Guide first for safety and warranty information.

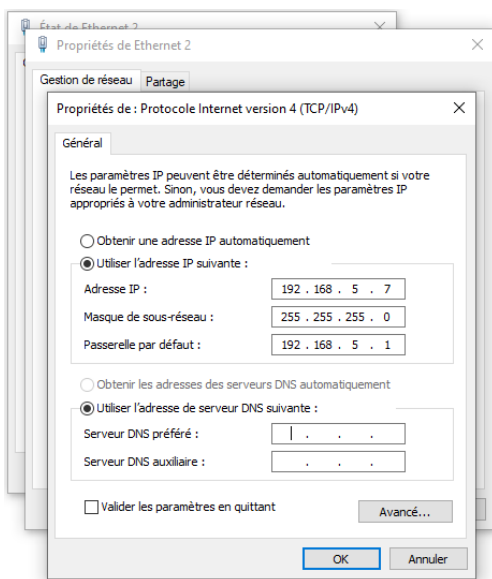
The gigabit interface is an option. It corresponds to a specific Ethernet port (this is not the port located near the USB).

2 Installation

STEP 1. Install the Alpao SDK:

Please run setup.exe to install the SDK. The Gigabit Ethernet driver is supported by default in all SDK higher than 3.08.05.

STEP 2. Configure the Ethernet Interface to the correct sub-network.



The default IP address of Gigabit Ethernet cards is 192.168.5.100 hence the computer must be configured to an address in the same sub-network (beginning with 192.168.5.*). We recommend 192.168.5.7.

See <https://support.microsoft.com/en-us/help/323444/how-to-change-the-ip-address-of-a-network-adapter-in-windows-server-20>

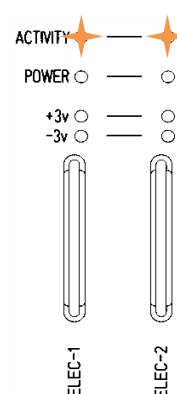
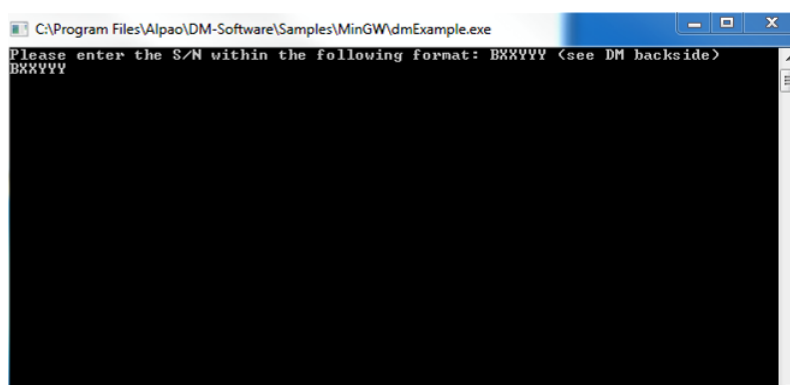
STEP 3. Connect the drive electronic to the computer with an Ethernet cable.

Once connected, the web page <http://192.168.5.100> must be accessible.

STEP 4. Copy the configuration files BAX*.acfg, BAX*, etc to C:\Program Files\Alpao\SDK\Config.

STEP 5. Run the test executable:

C:\Program Files\Alpao\SDK\Samples\MSVC\Bin\example.exe



This tool activates one after the other each actuator of the deformable mirror during **0.5s**.

The activity LED should blink.

STEP 6. Optional: If you purchased the LED test tool, you can connect it to one of the "ELEC" outputs. You should see the LEDs blinking one after the other. This tool is mainly useful for custom low-level software development.



3 Frequently Asked Questions

1. The web page <http://192.168.5.100> is not accessible.

Either the Ethernet card sub-network is not correctly configured or this IP has been changed.

2. How to change the Gigabit Ethernet IP address?

This is done by accessing this page:
<http://192.168.5.100/network.html>

Don't forget to change the Gigabit interface configuration. You'll also need to change the BAX*.acfg file.

3. Is the maintenance webpage <http://192.168.7.2> accessible from this interface?

No, you need to connect the drive electronic with the USB cable or the Mbit Ethernet interface to access this. The procedure is explained in the general Quick Start Guide.

4. How to verify that my configuration file is valid for Gigabit Ethernet connection?
How to adapt a configuration file to work with the Gigabit Ethernet interface?

Open the BAX*.acfg file in C:\Program Files\Alpao\SDK\Config. This default contents of this file is the following:

```
interface gbit ip 192.168.5.100 port 20496 startChannel 0 deVersion 7000
```

It must be adapted if the IP address is changed.

**ALPAO S.A.S.
345 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN
FRANCE**

** +33 476 890 965
 contact@alpao.com**

