EagleMage
Configuration Program
Manual
Version 1.0.3.5

EagleMage Configuration Program
Configuration Program Manual

Manual edition 3—November 2006

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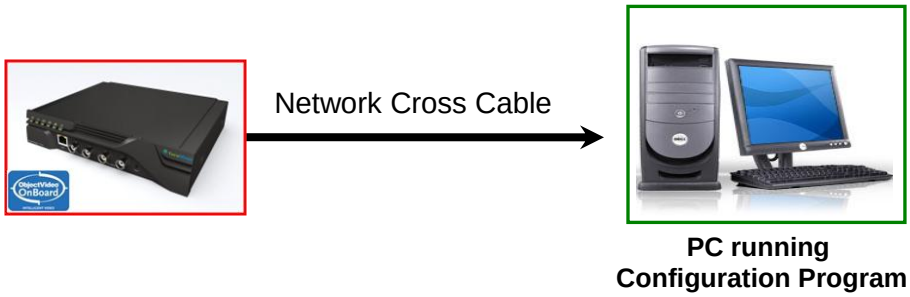
1. Introduction

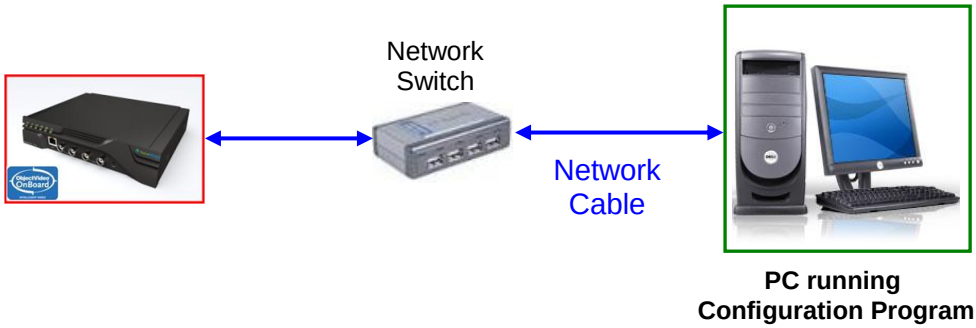
The Configuration Program is designed specifically to program OnBoard's IP Address, RS485 and GPIO's settings.

This "Configuration Program Manual" explains all the steps needed to program the device IP, RS 485 and GPIO's setting.

Typical Setup A



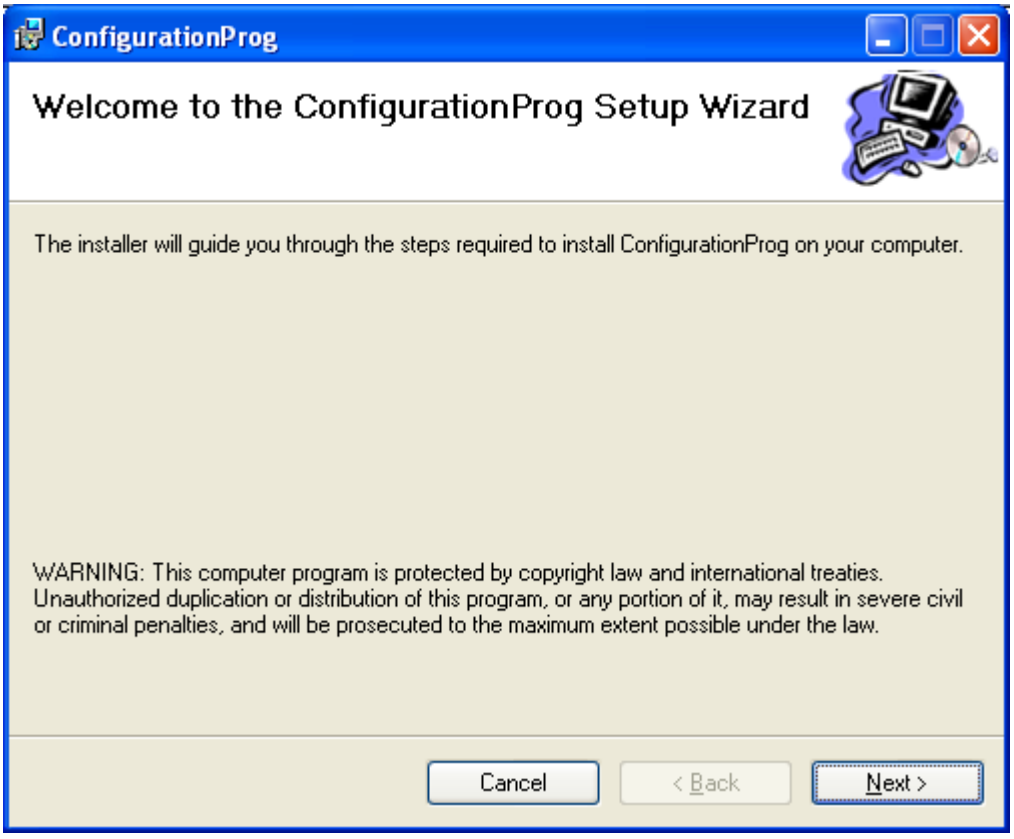
Typical Setup B



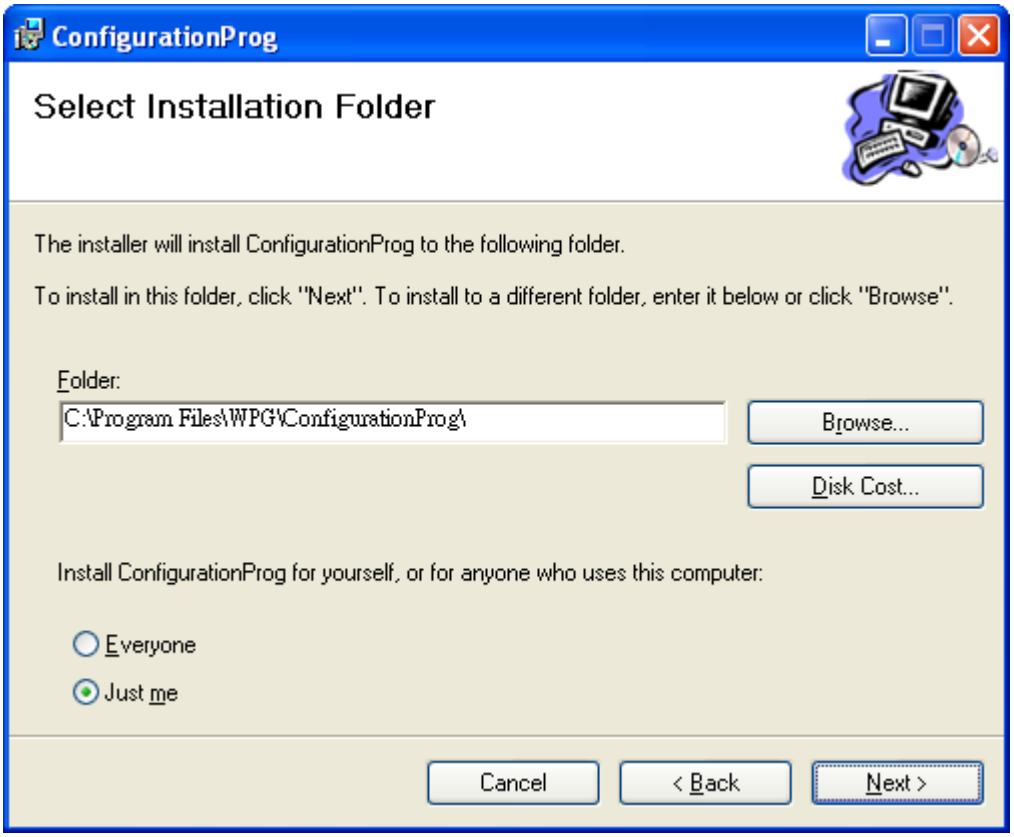
2. Installation of Configuration Program

2.1 Double click the **Installer.msi**

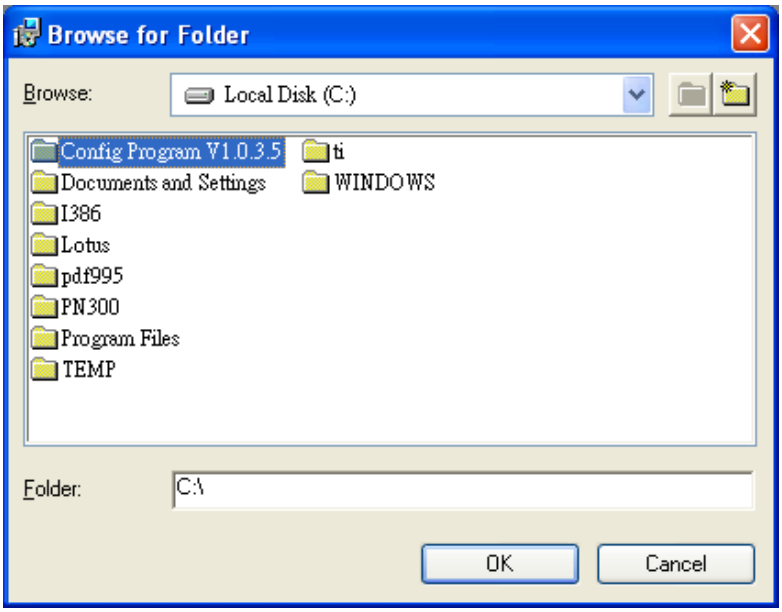
2.2 **The Welcome window appears. Click "Next" to continue.**



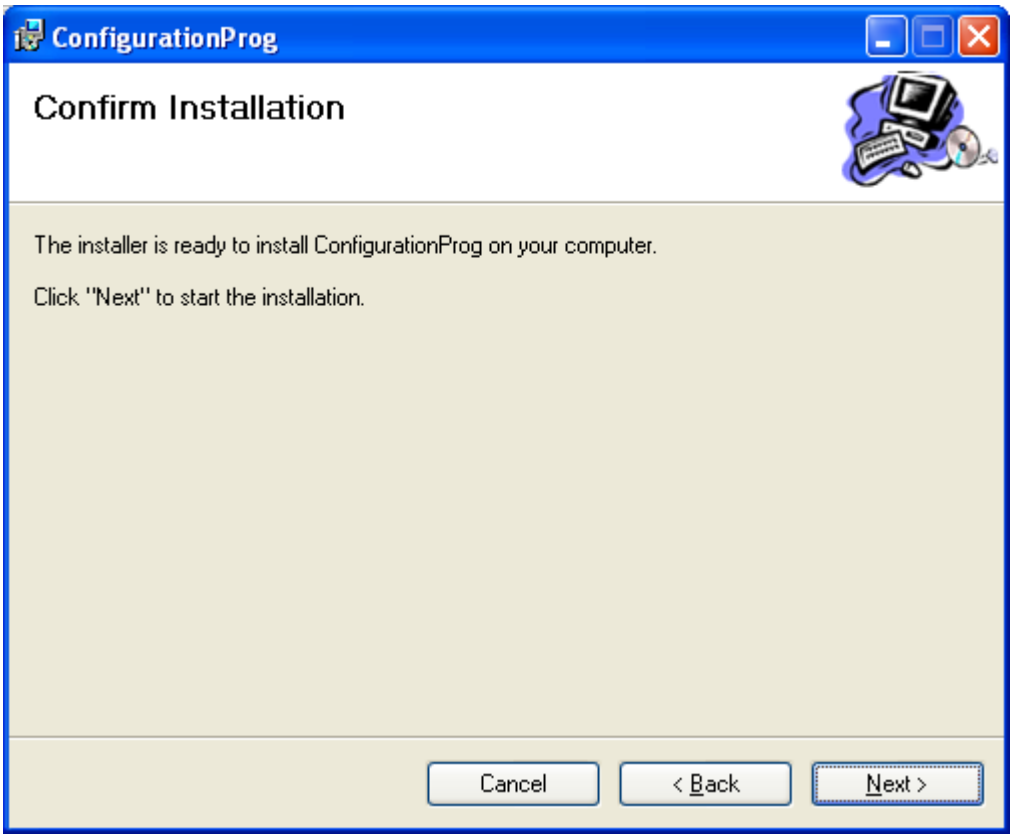
2.3 Select the location you want to install the software and click “Next” to continue



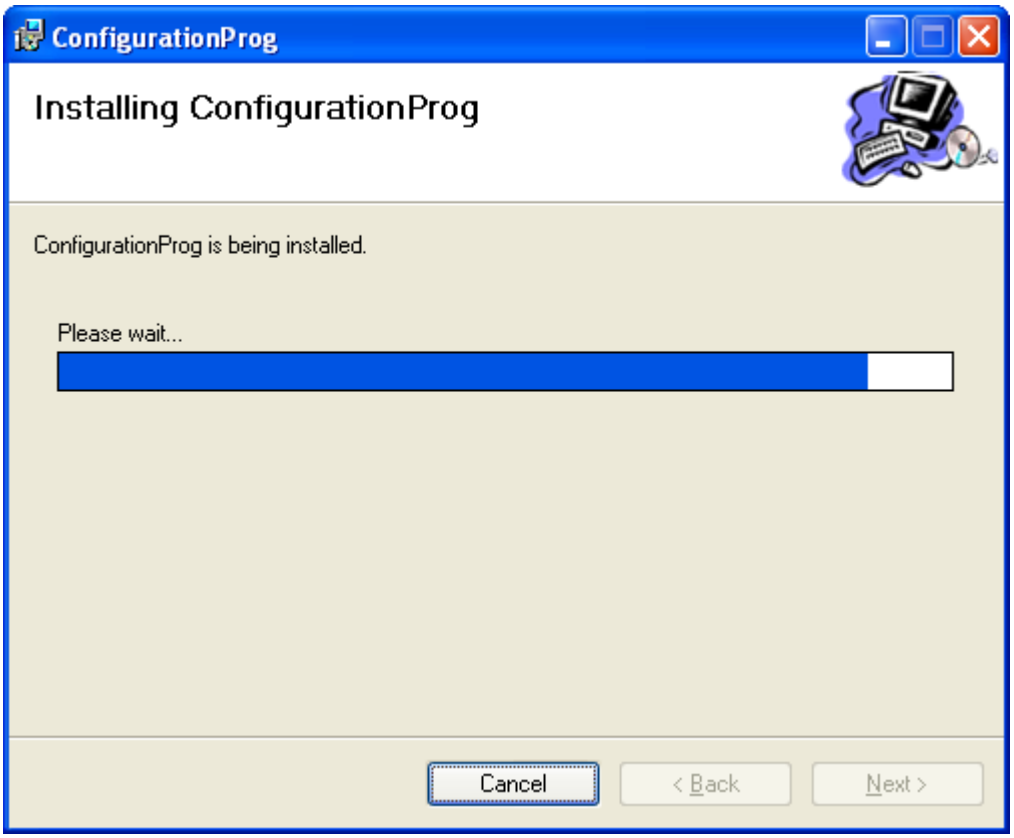
You may install in the default directory or browse install at another directory.



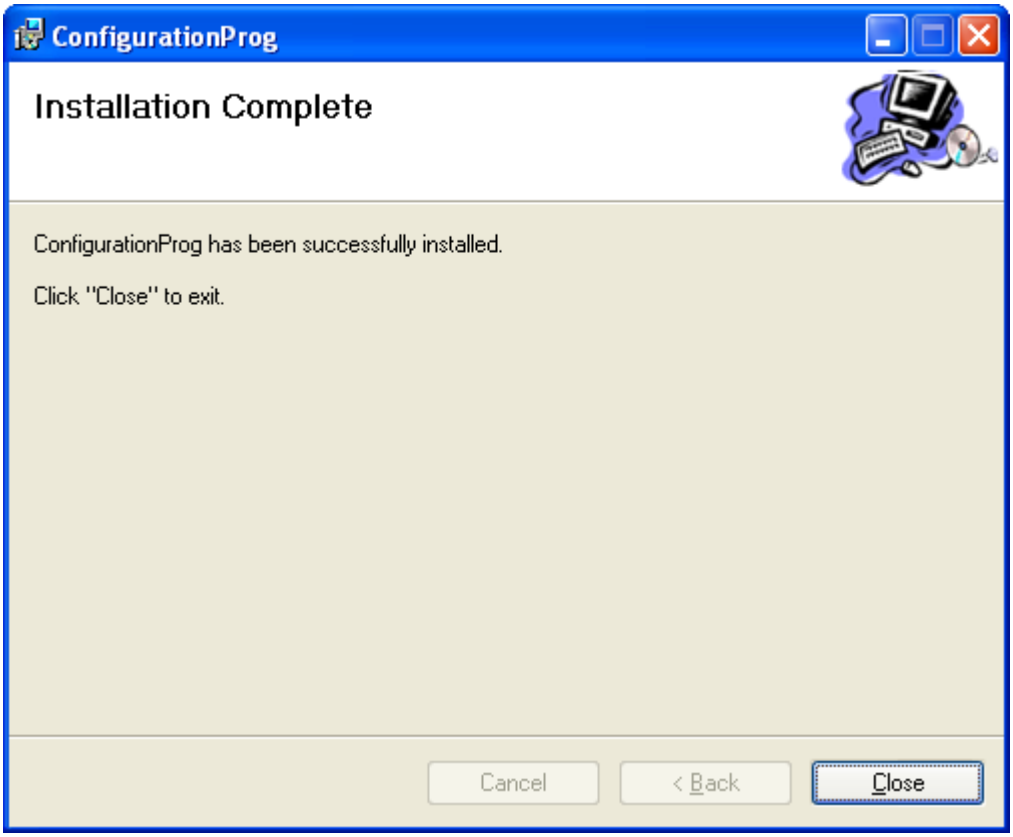
2.4 Confirm the installation and click “Next” to continue



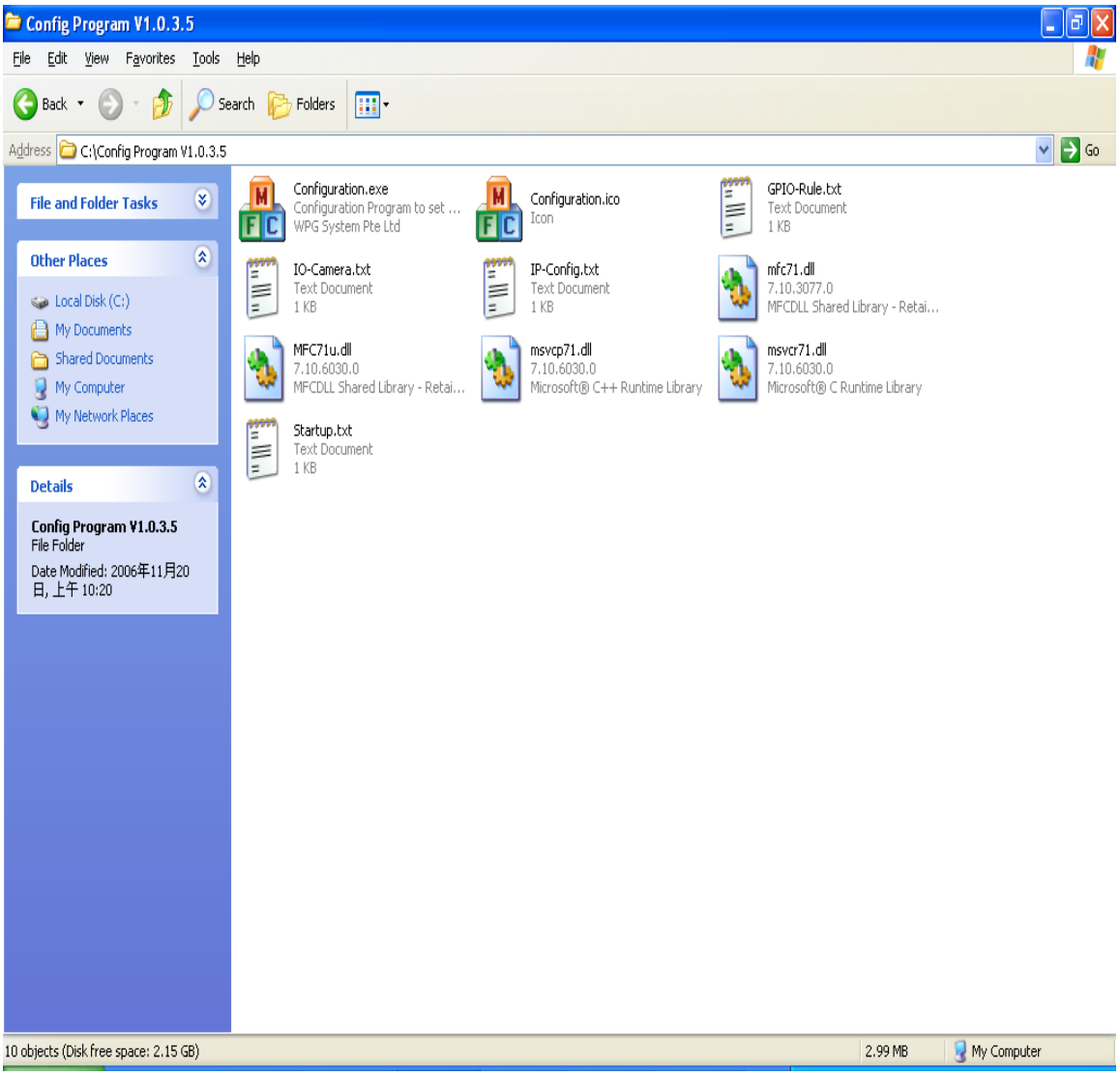
2.5 The installation starts



2.6 Wait till the installation complete and click “Close” to finish the session.



2.7 Validate installation is successful by browsing to your installed directory.

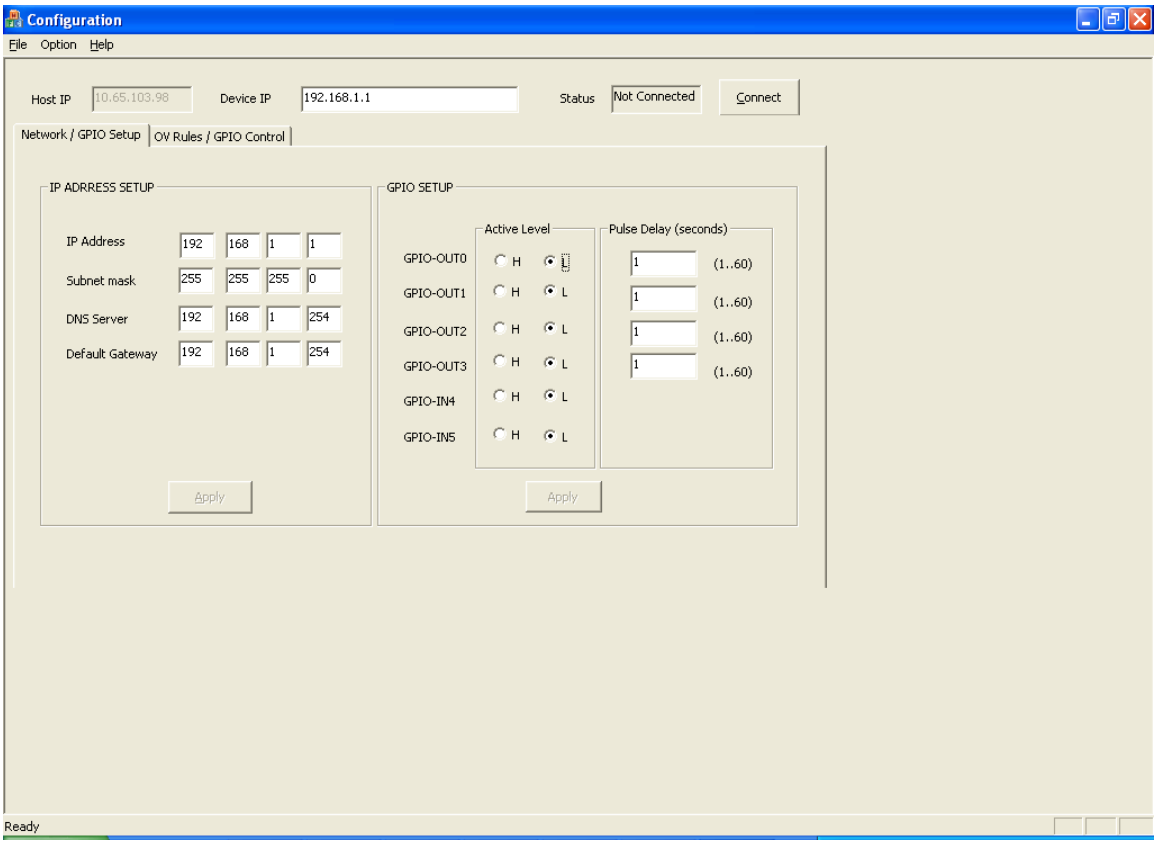


3. Starting Configuration Program

Note: If you are using ObjectVideo rule to trigger GPIO Output or RS 485, you need to first create and activate ObjectVideo Rule in RMT, so that is will be displayed in the Configuration Program. Validate your rule are working in ObjectVideo Alert Console before using configuration program.

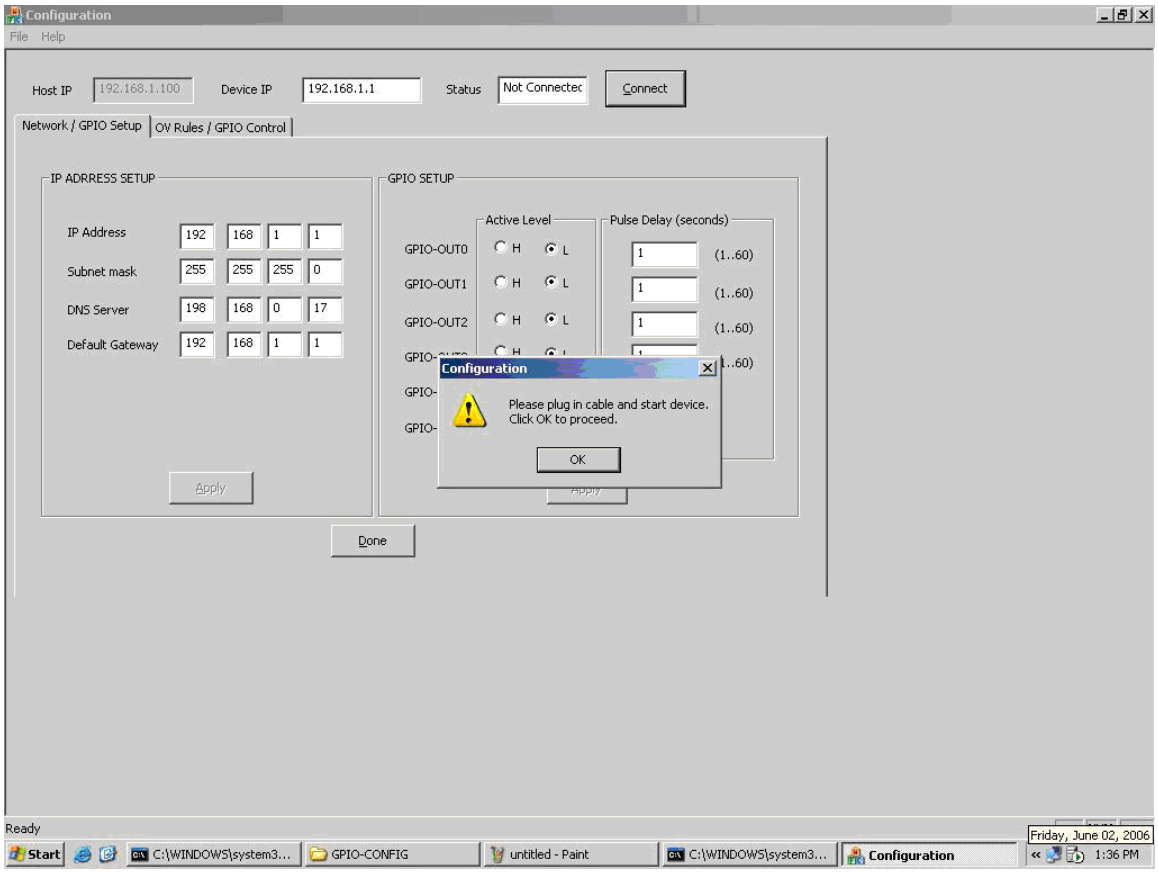
3.1 From the directory created during the installation, double click on the **Configuration.exe or Shortcut Configuration.exe from the desktop.**

3.2 Configuration Program Main Menu opens**.**



4 Connecting to Device

4.1 Enter your Device IP in the **Device IP** field (By factory default, the IP address is 192.168.1.1) and click "**Connect".**



4.2 **"Please plug in cable and start device. Click OK to proceed."** message appears. Proceed to 4.**3**.

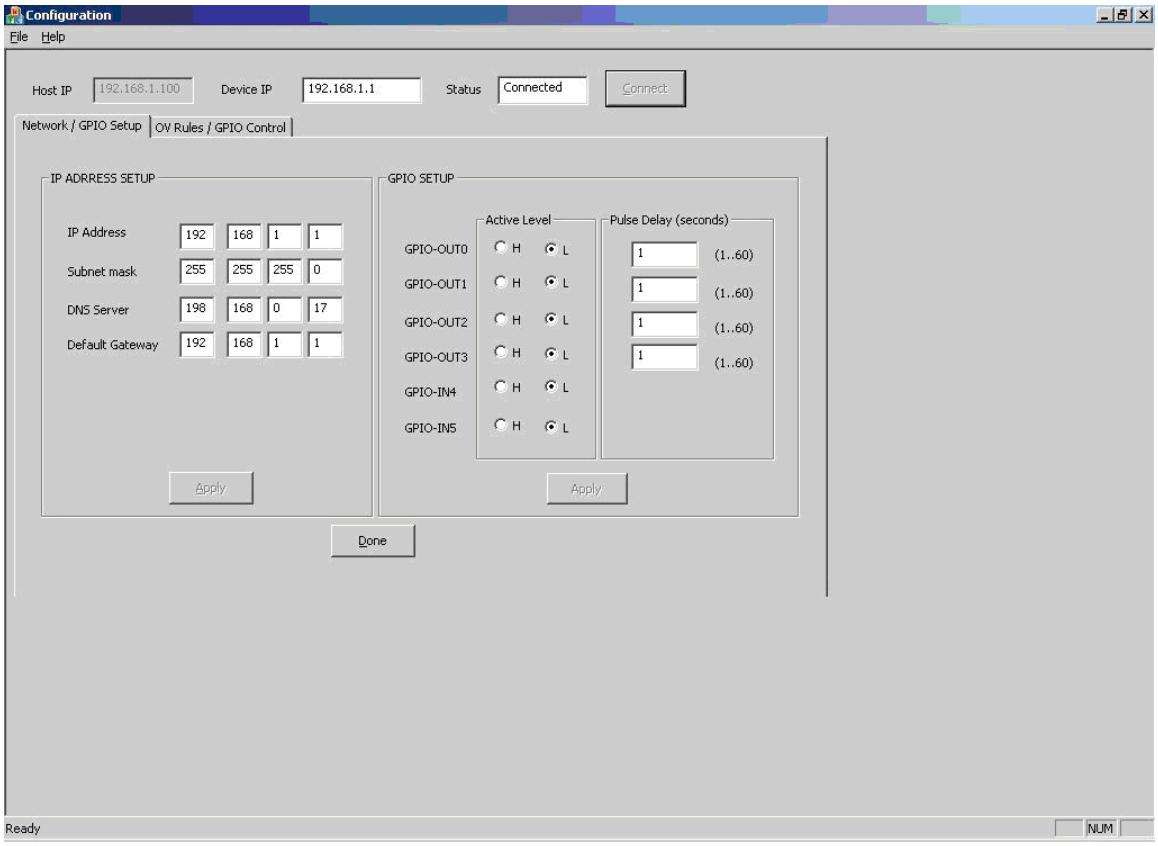
4.3 Ensure that the Ethernet cable is properly plugged in before turning on power up to start up OnBoard. Once the ‘Network ’ LED on the front panel turns on full Green , click “**OK**” to establish connection to the device.

4.4 Device Connection Status

The **Status** field indicates the connecting statuses as follows:

- Not Connected
- Connecting
- Connected
- Connect Fails

Once device is connected, you may proceed to configure device IP (Chapter 5).



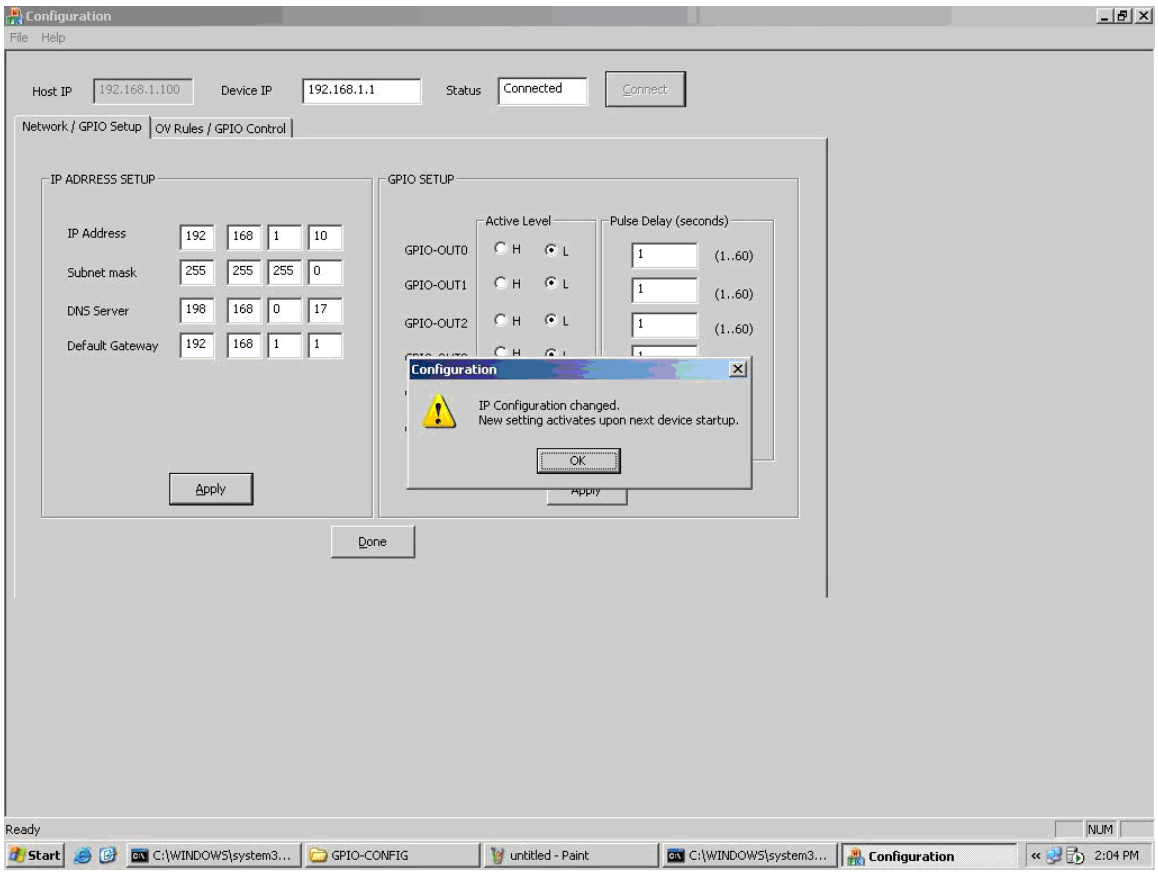
If “Connect Fails” occurs, check device IP. If problem still persist, contact your system administrator.

5 Device IP Configuration

5.1.1 Do one of the following if you want to configure the new IP,

- In the **IP address**, **Subnet mask** and **Default Gateway** fields, key in the desired IP address, subnet mask, and default gateway addresses.
- In the **DNS Server** field, key in the DNS server addresses. This field is optional.

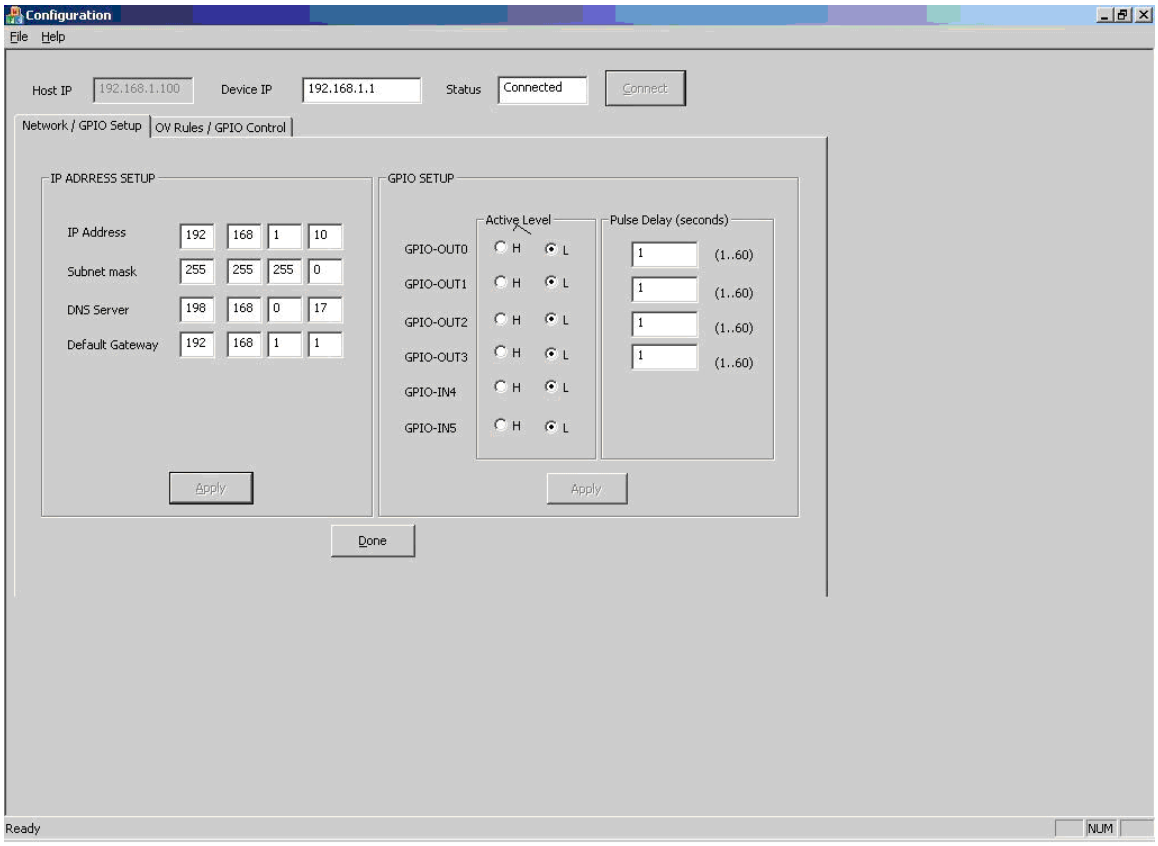
5.1.2 Click “**Apply**” when the setting is done.



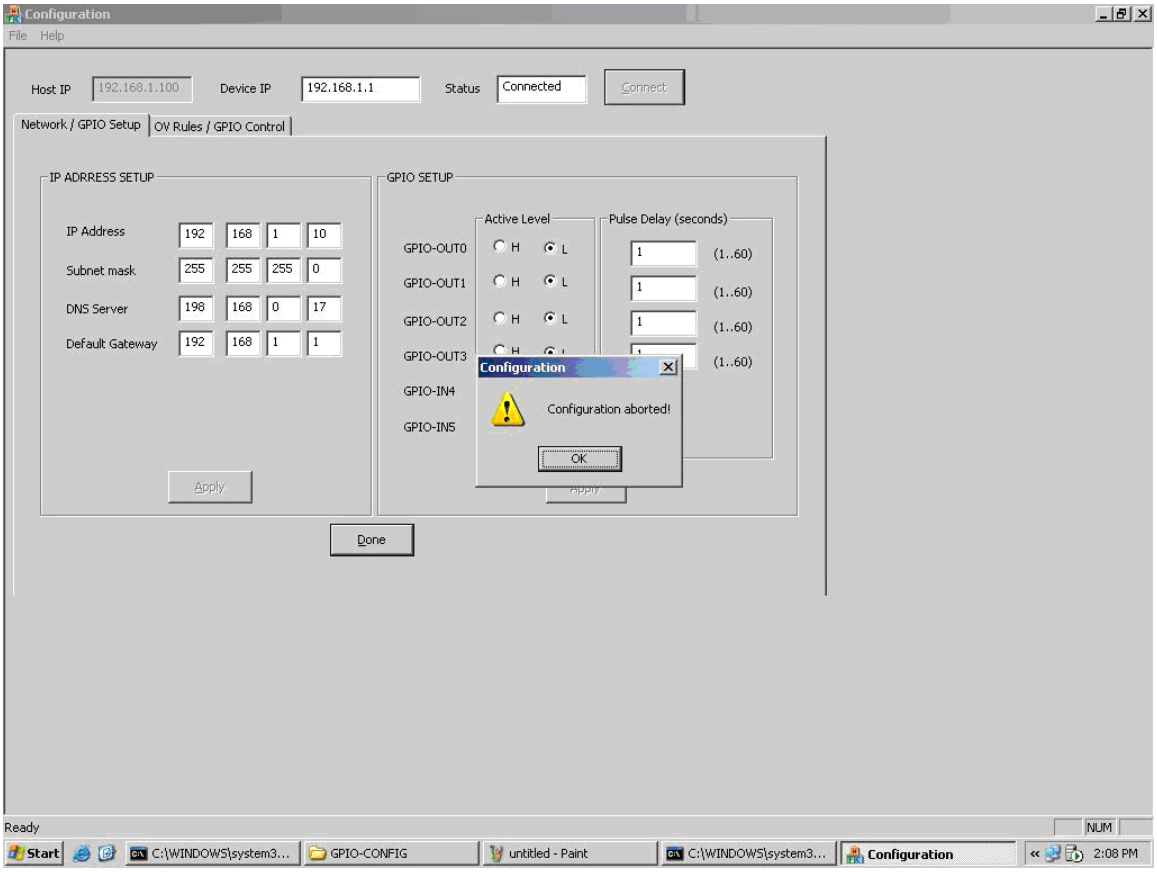
5.1.3 **“IP Configuration changed. New Setting activates upon reset device startup.”** message appears to indicate that setting is successfully sent to device.

5.1.4 Reset the device to activate new IP setting.
The device assumes the existing IP setting before any reset. (Important: It is advisable to make a record of the new setting for future reference)

5.1.5 Close the Configuration Program by clicking on the “**Done**” button.



5.1.6 “**Configuration aborted**” message appears. Click “OK” to close the program.



6 Device GPIO Configuration

6.1 Configure Device GPIO

6.1.1 Understanding device's GPIO & RS 485.

Refer to the back of device,

- Device has 4 GPIO Output (GPIO-Out0, GPIO-Out1, GPIO-Out2 and GPIO Out3).
- Device has 2 GPIO Input (GPIO-IN4, GPIO-IN5)

GPIO Terminal Block

Position	Name
1,2	Output 0
3,4	Output 1
5,6	Output 2
7,8	Output 3
9,10	Input 4
11,12	Input 5
13,14	RS 485

To configure the each GPIO, its active level and activated delay have to be set.

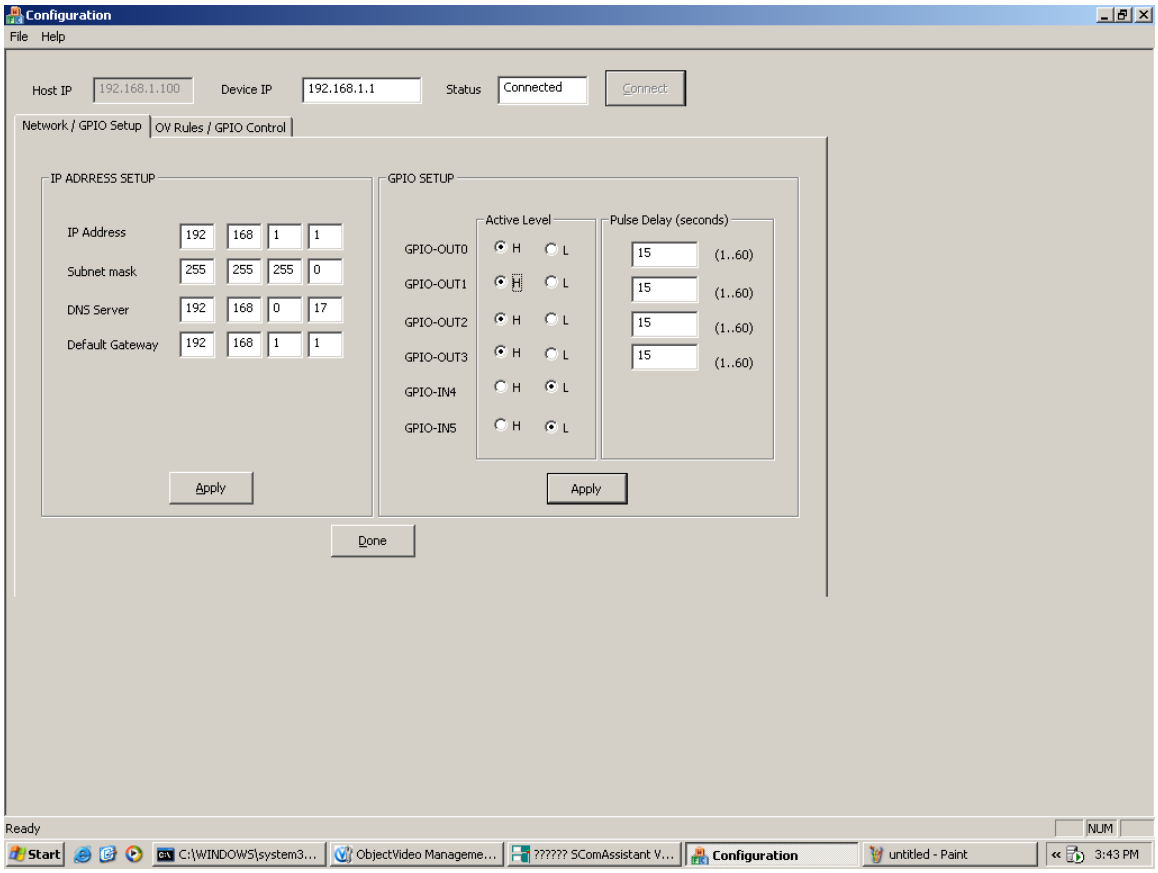
- The active level for the input ports implies the voltage level where a change in state becomes, e.g. if GPIO-IN4 in Configuration program is set as **Active Level** "**L**", the device will only response when there is a change from logic High to logic Low at this input.

- The active level for the output ports implies the voltage level it will become, e.g. if GPIO-OUT0 in Configuration program is set as **Active Level** "**H**", upon any triggering from GPIO Input or ObjectVideo rules, GPIO Output 1 will change from logic Low to Logic High at output.

- The pulse delay is the duration the output port will hold the active voltage level before returning back to pre-activation level. It is applicable to output ports only

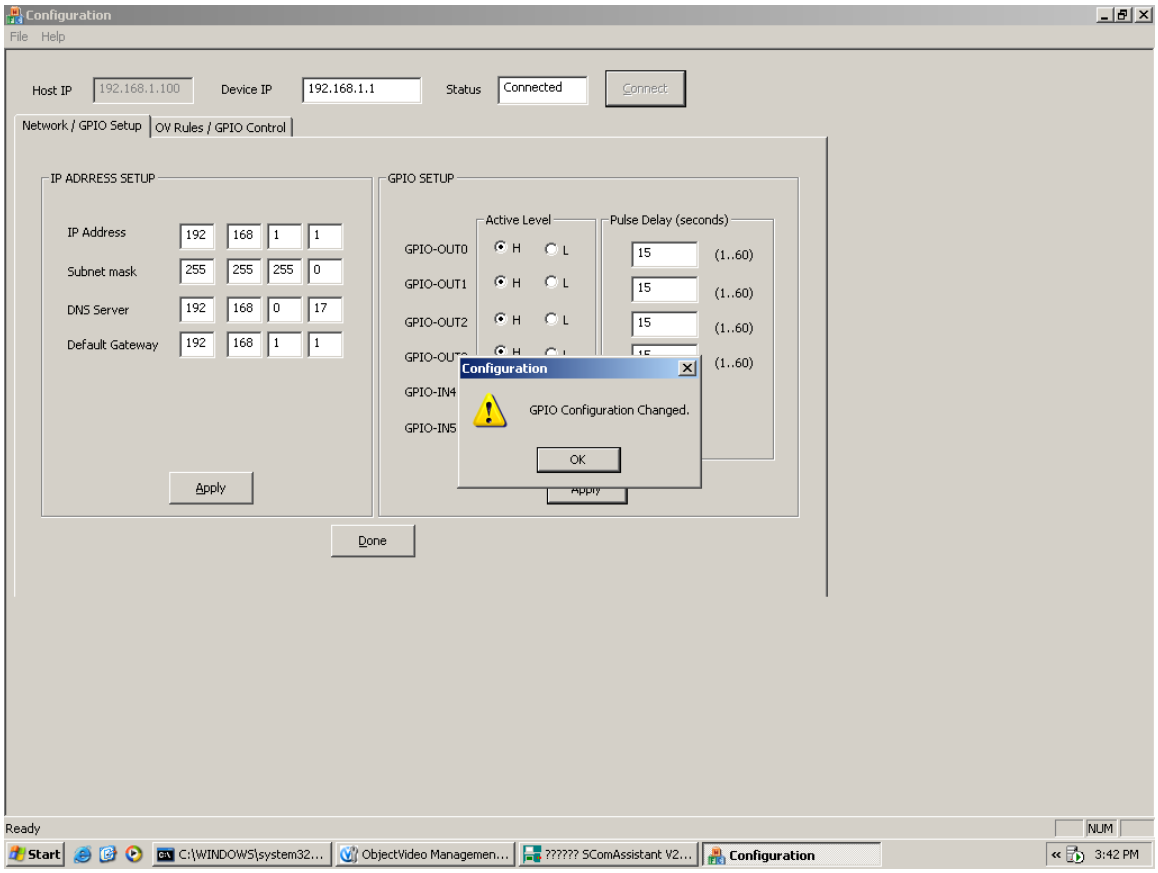
6.1.2 **Configuring device's GPIO**.

To configure device's GPIO Inputs & Outputs triggering states, click on the radio button to set the **Active Level** of each port and configure the required **Pulse Delay**. Click "Apply" once set.



For example: **GPIO-Out0**, "**H**", Pulse Delay (**15**), means you are configuring GPIO-Out0 to be triggered from logic Low to Logic High (when triggered, GPIO-Out0 will toggle from low to high), with a hold time of 15 seconds.
The trigger can be by GPIO-Input or ObjectVideo Rule Event trigger (refer to Section 6)

6.1.3 "**Configuration Changed**" message appears to indicate that setting is successfully sent to device. Click "**OK**" to proceed.

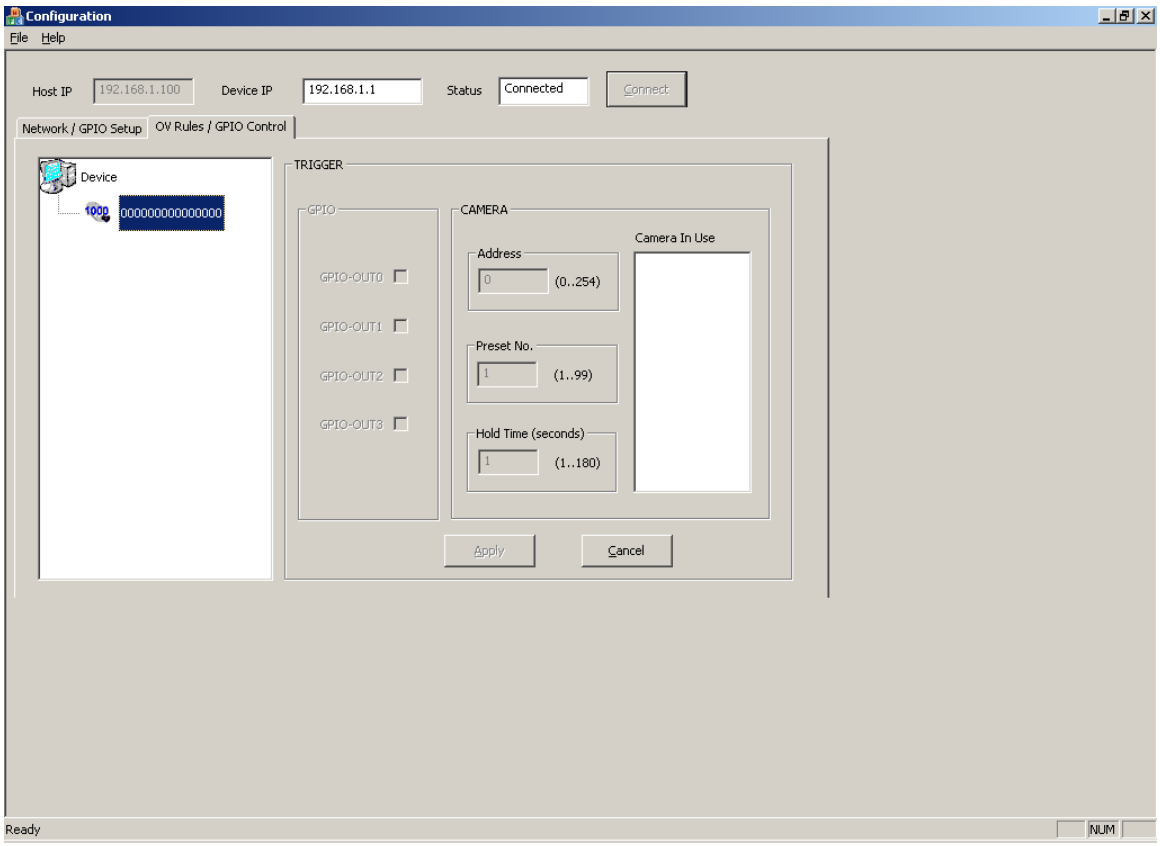


7 Triggering GPIO and RS 485

7.1 You may configure to trigger GPIO Output or RS 485 by using GPIO Input or ObjectVideo rule when triggered.

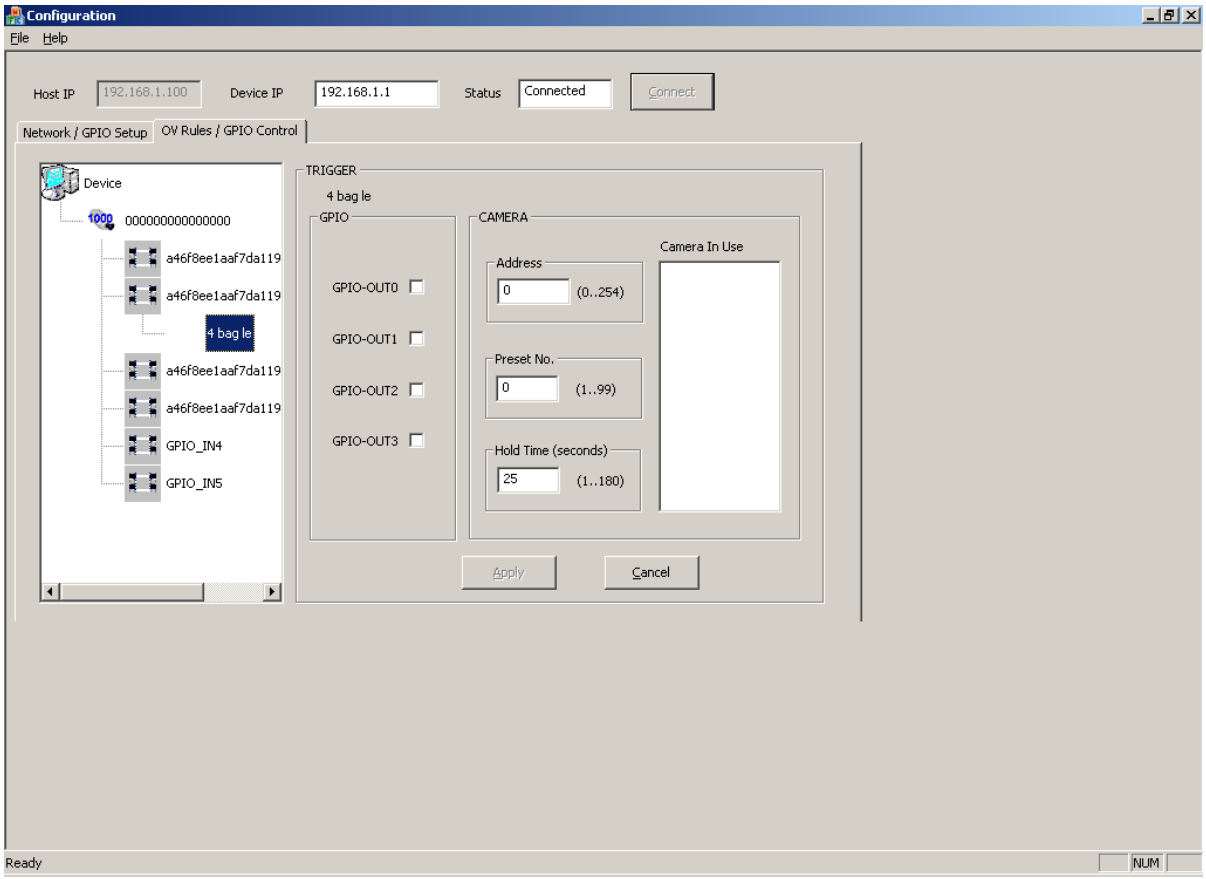
Note: Currently RS 485 supports only Pelco-D protocol at 2400 baud rate.

7.2 Click on the “OV Rules / GPIO Control” Tab (page) to do start setting.



7.3 Configuring ObjectVideo Rule / GPIO IN triggering on GPIO Output

7.3.1.1 Double Click on the **Sensor**, then double click on the **rule name** (Rule name is being highlighted as shown) or GPIO_IN4 or GPIO_IN5, to trigger GPIO Output or RS485.



Note:

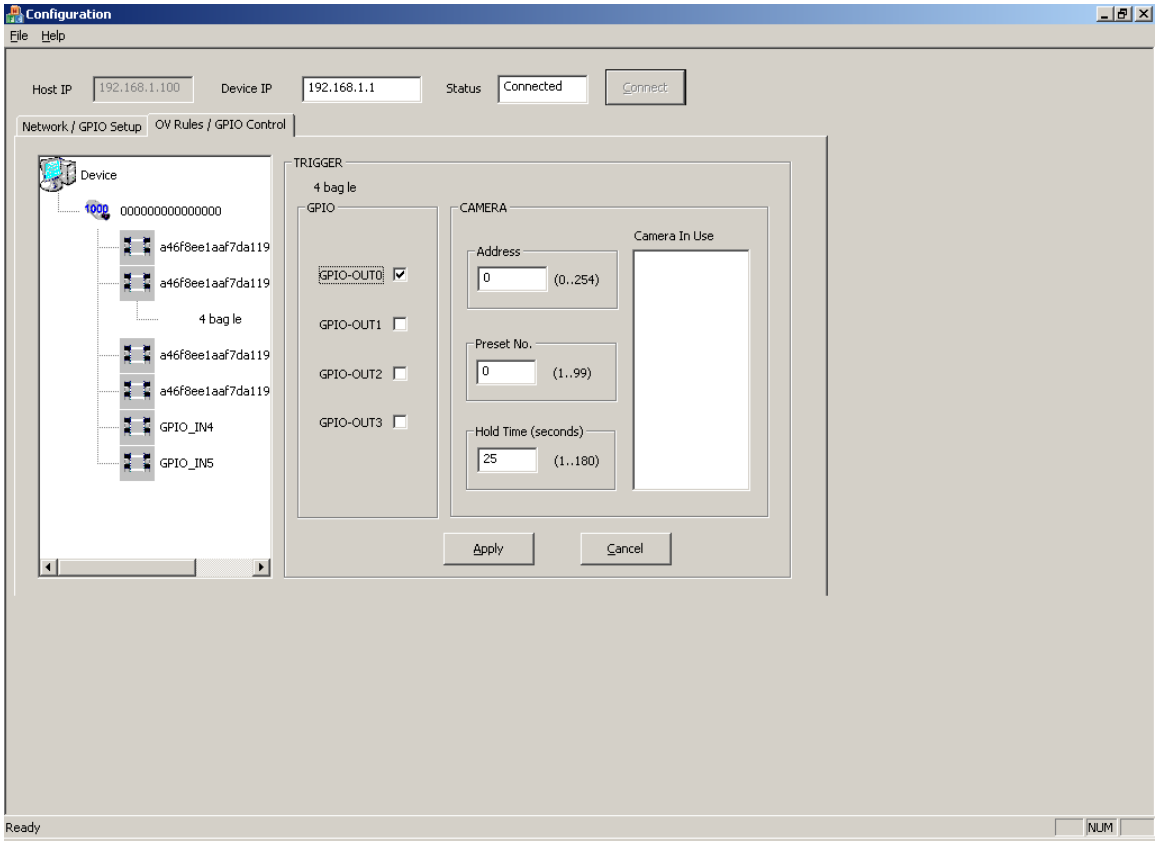
Currently RS485 support only serial communication using PELCO-D protocol (Baud rate 2400). User need to first save all preset setting into the receiver (PTZ Camera). Upon ObjectVideo rule or GPIO Input trigger, OnBoard device will send the position preset command string via RS 485 to the receiver (PTZ Camera).

7.3.1.2 Tick the GPIO-Output/s you required.

Note:

- **Select trigger one GPIO Output port only.**
- **Used GPIO port will be grey out.**

7.3.1.3 Click “**Apply**” to save setting



7.4 Configure ObjectVideo Rule / GPIO IN triggering on RS 485

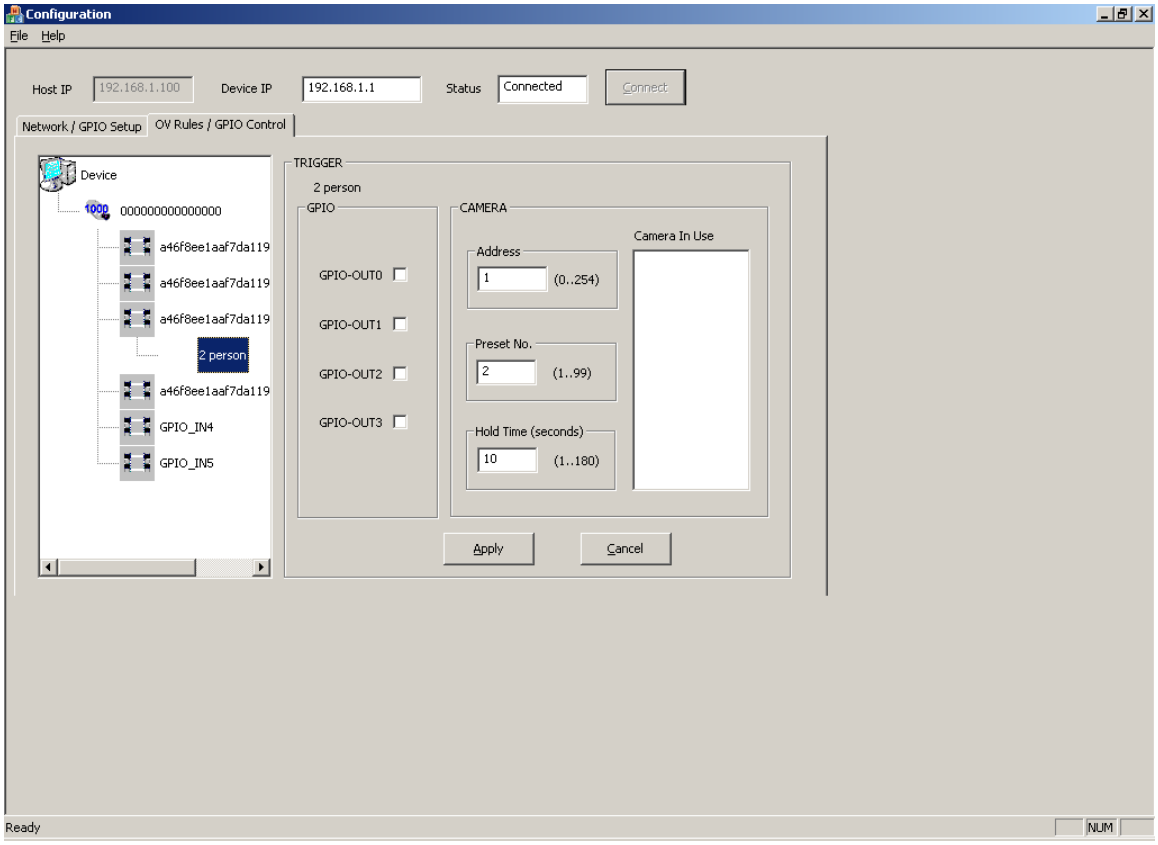
Note:

Currently RS485 support only serial communication using PELCO-D protocol (Baud rate 2400). User need to first save all preset setting into the receiver (PTZ Camera). Upon ObjectVideo rule or GPIO Input trigger, OnBoard device will send the position preset command string via RS 485 to the receiver (PTZ Camera).

7.4.1.1 Double Click on the **Sensor**, then double click on the **rule name** (Rule name is being highlighted as shown) or GPIO_IN4 or GPIO_IN5, to trigger GPIO Output or RS485.

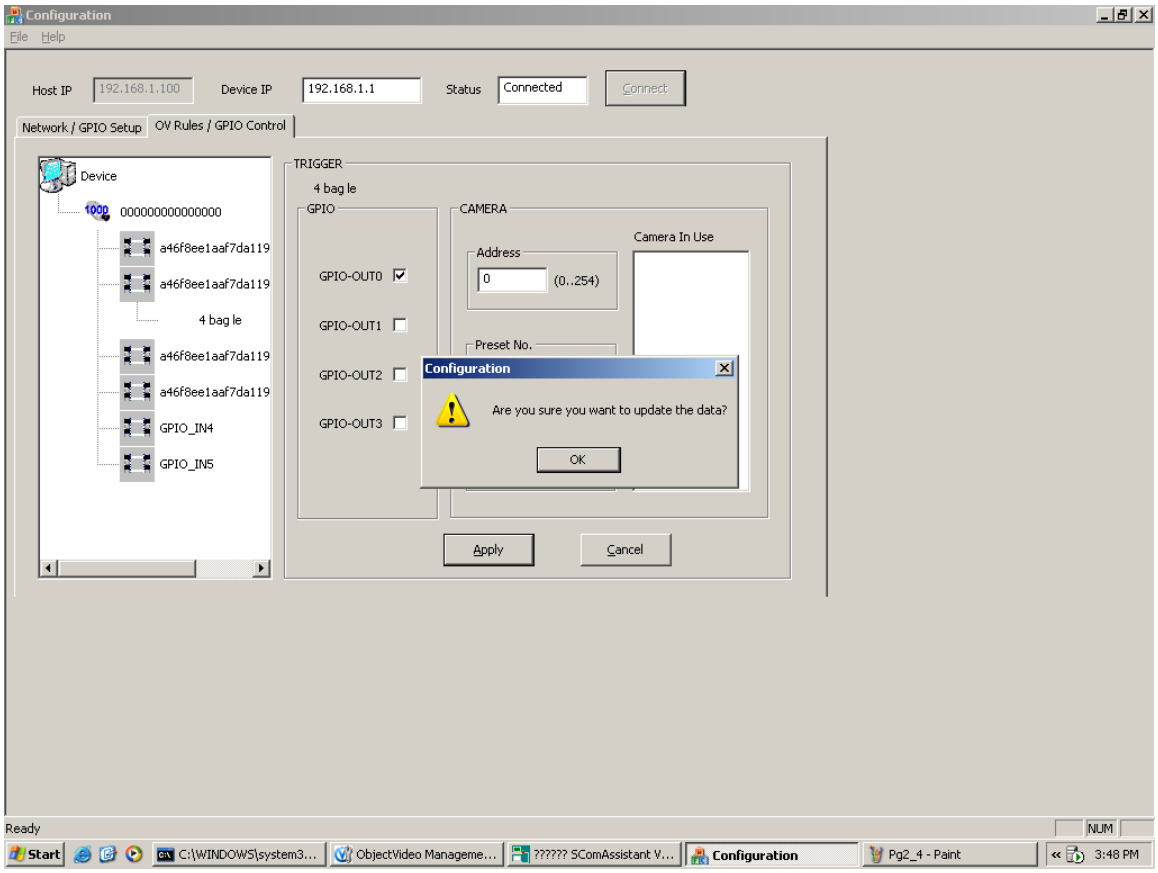
7.4.1.2 Enter the **Camera Address**, **Preset No** and the **Hold Time**

7.4.1.3 Click "**Apply**" to save setting.

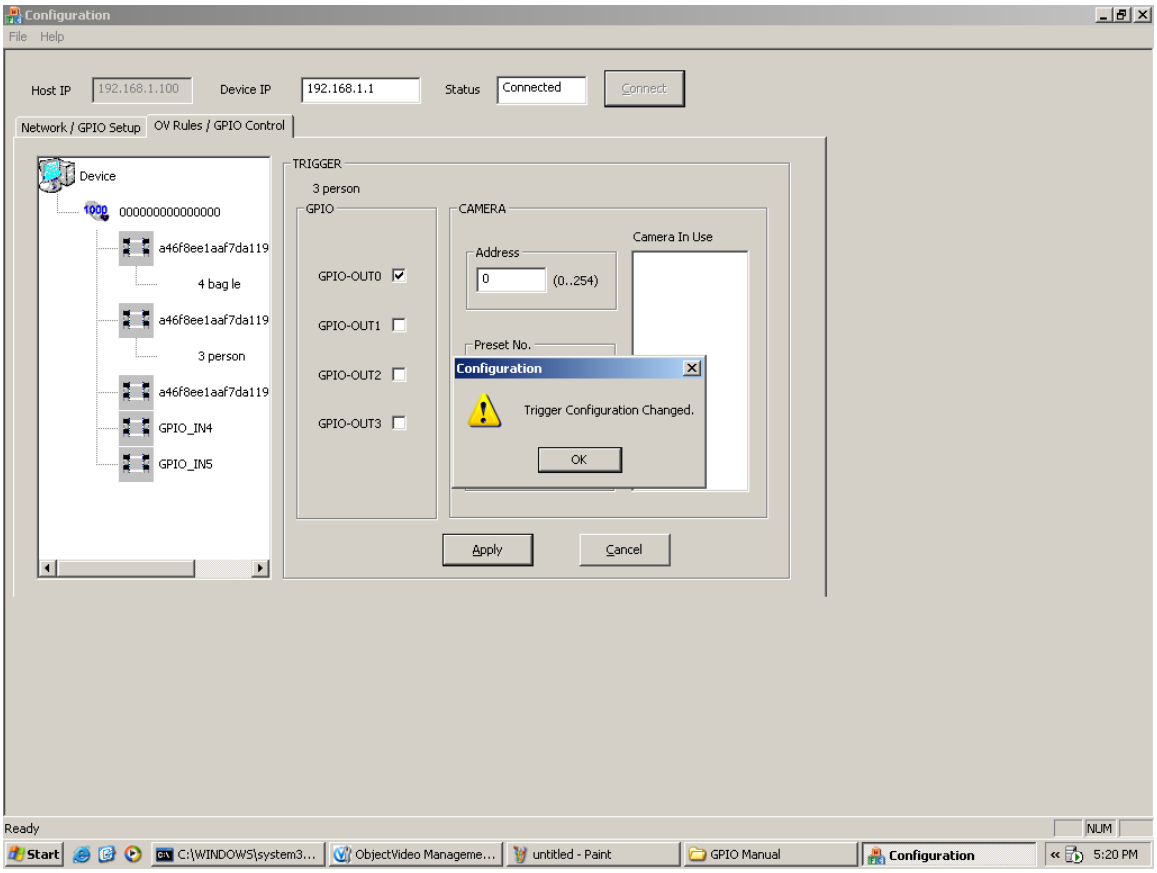


Note:
1. Pelco-D protocol, Baud rate 2400 is used
2. Camera Address starts from 1 to 254. Set Camera Address to 0 when no camera is to be selected for the rule.
3. Preset No starts from 1 to 99.
4. Hold Time refers to the duration before subsequent command is sent out when there is another trigger during this period. It can be from 1 to 180 seconds.

7.4.1.4 Confirm the change by clicking "**OK**" when "**Are you sure you want to update the data?**" message appears.



7.4.1.5 "**Trigger Configuration Changed**" message appears to indicate that setting is successfully sent to device. Click "**OK**" to proceed.



7.4.2 **Close Program**

- Click “Cancel” to exit.
- “Configuration Aborted” message appears.
- Click “OK” to close Program.