How to use VC to do count operation?

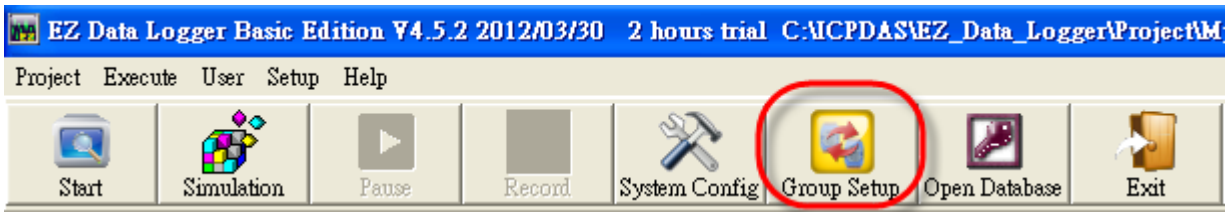
Applied to:

Platform	*OS Version*
PC	*Windows 98/NT/2000/XP/Vista*

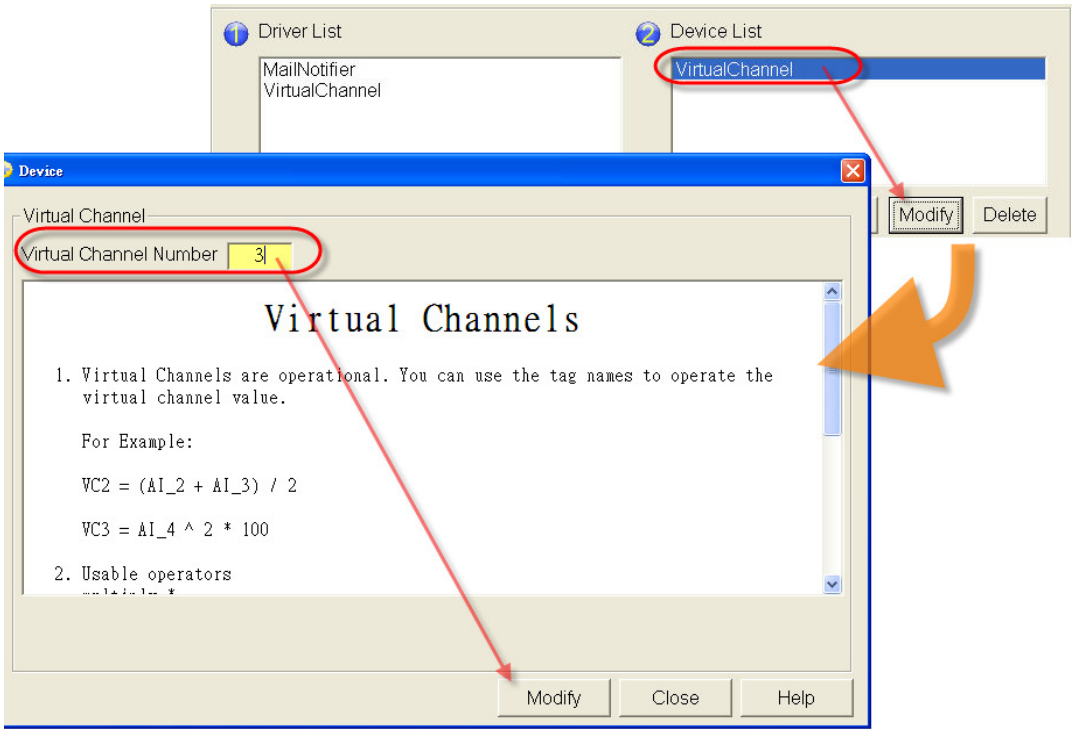
You can operate the data into the virtual channel by channel tag name easily. The below steps demonstrate how to use VC to do count operation, and how to reset the counter.

I. How to set the Virtual Channel to be a counter

Step1：Open **EZ Data Logger**, and then from the button list click the **Group Setup** button.

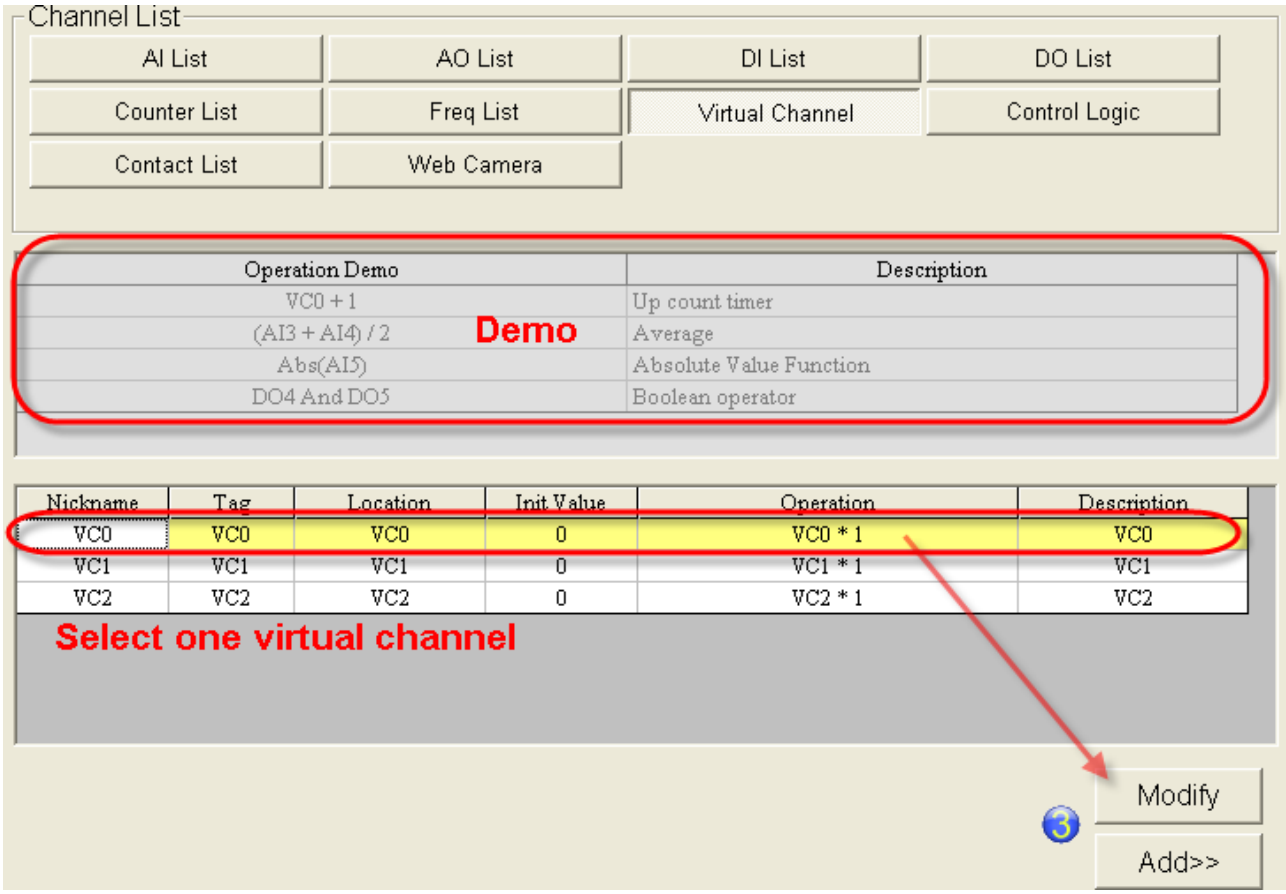


Step2：In the “Device List” select **VirtualChannel**, and then click **Modify** button→ In the “Device” form, type **Virtual Channel Number** (up to 256 channels). Then click the **Modify** button.

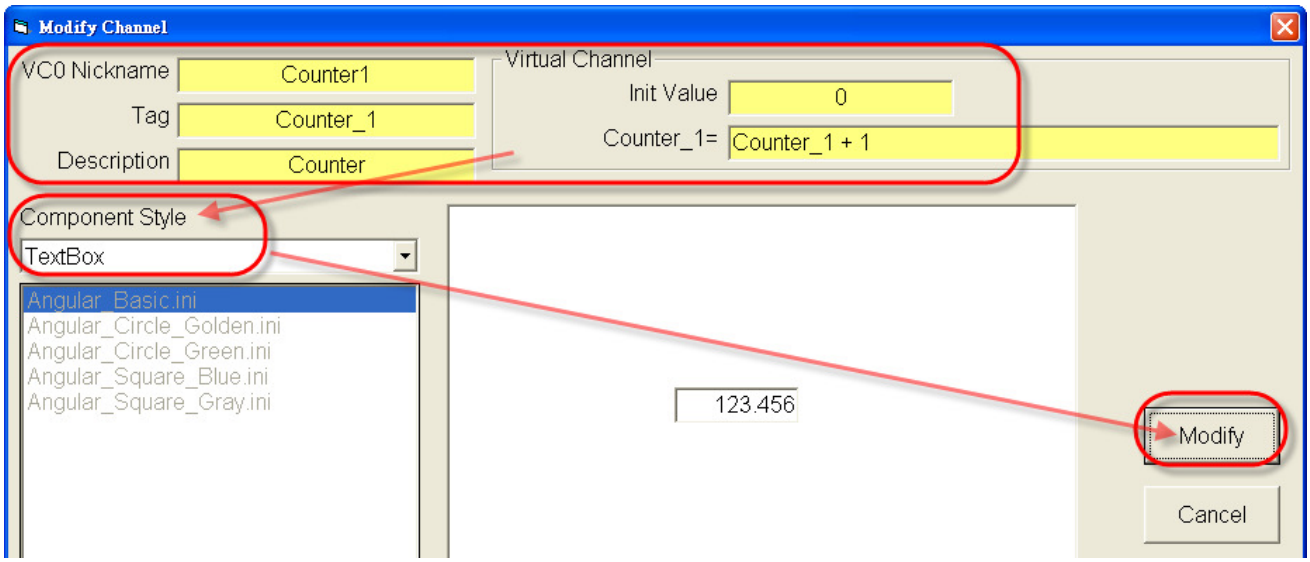


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Step3：Select one virtual channel, and then click the **Modify** button.

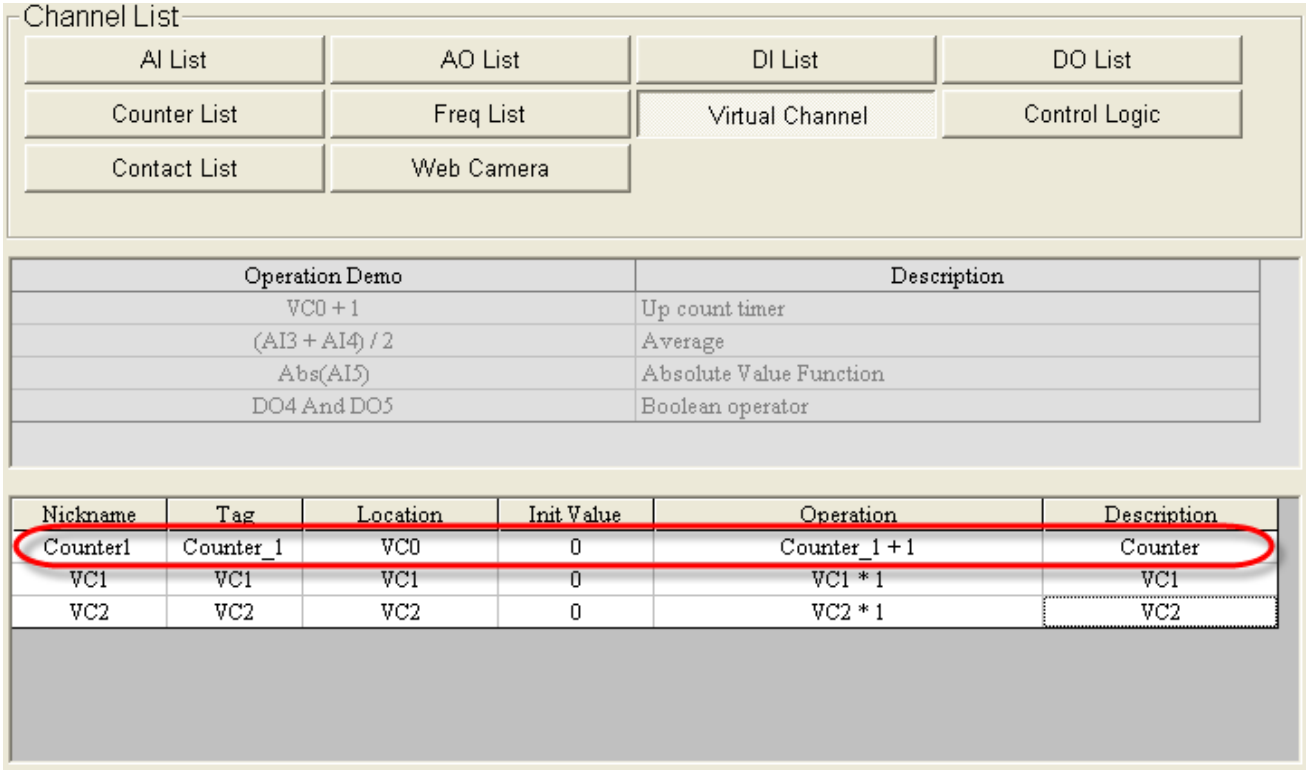


Step4：Edit **Nickname**、**Tag** name、**Description** of VC channel→ Set **Init Value** = 0, and set the operation: **Counter_1=Counter_1 + 1**→ Select the **component style**→ Click the **Modify** button.



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Step5：The setting result of the selected virtual channel is as below picture ↓



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II. How to reset the counter

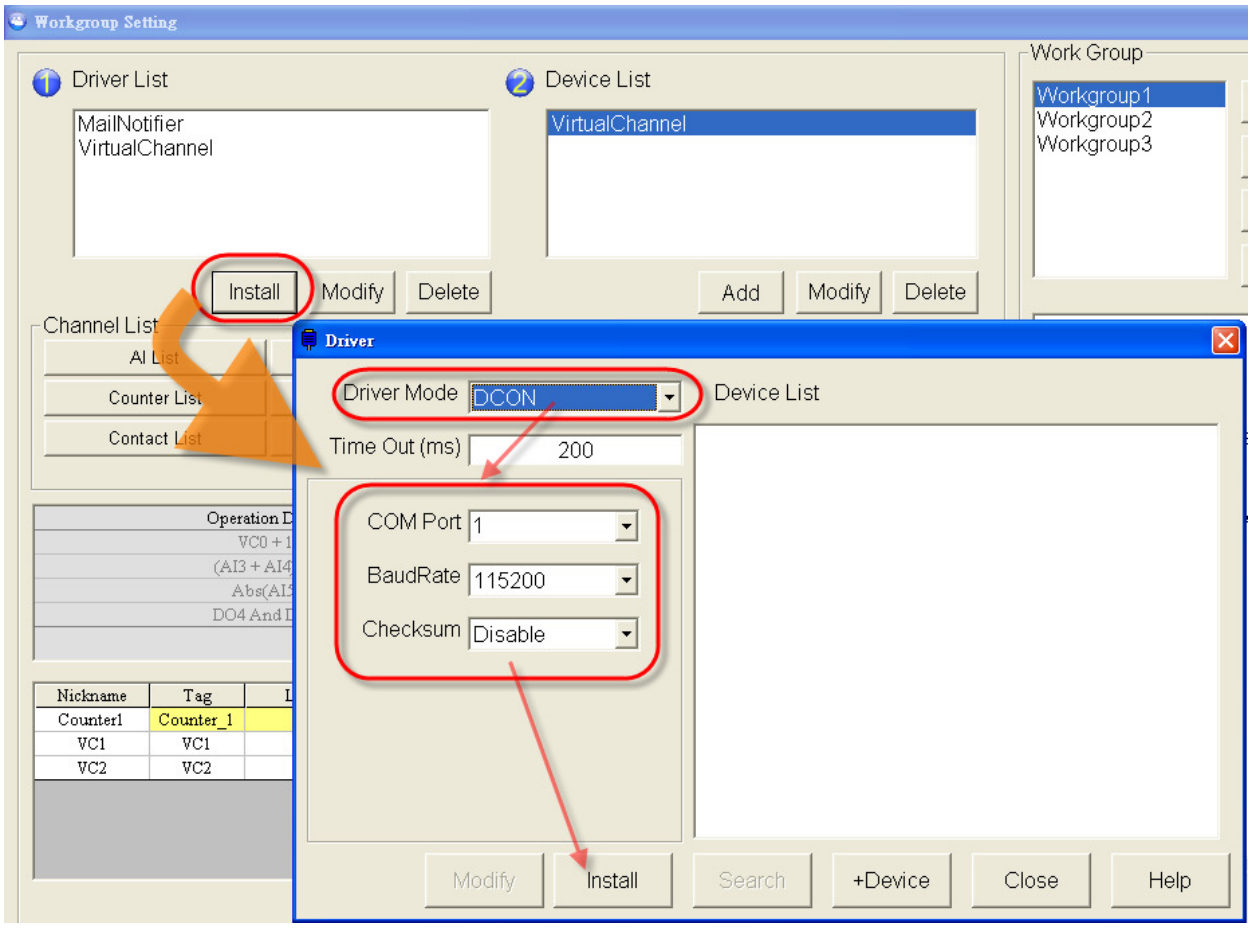
After you set the VC channel to be a counter, you need to add a reset button for the counter. So that when you execute the project, you can reset the counter by the button. There are three methods that you can refer to set the reset button.

1. Add a DI module wired a button to reset the counter.

Step1： Open **EZ Data Logger**, and then from the button list click the **Group Setup** button.

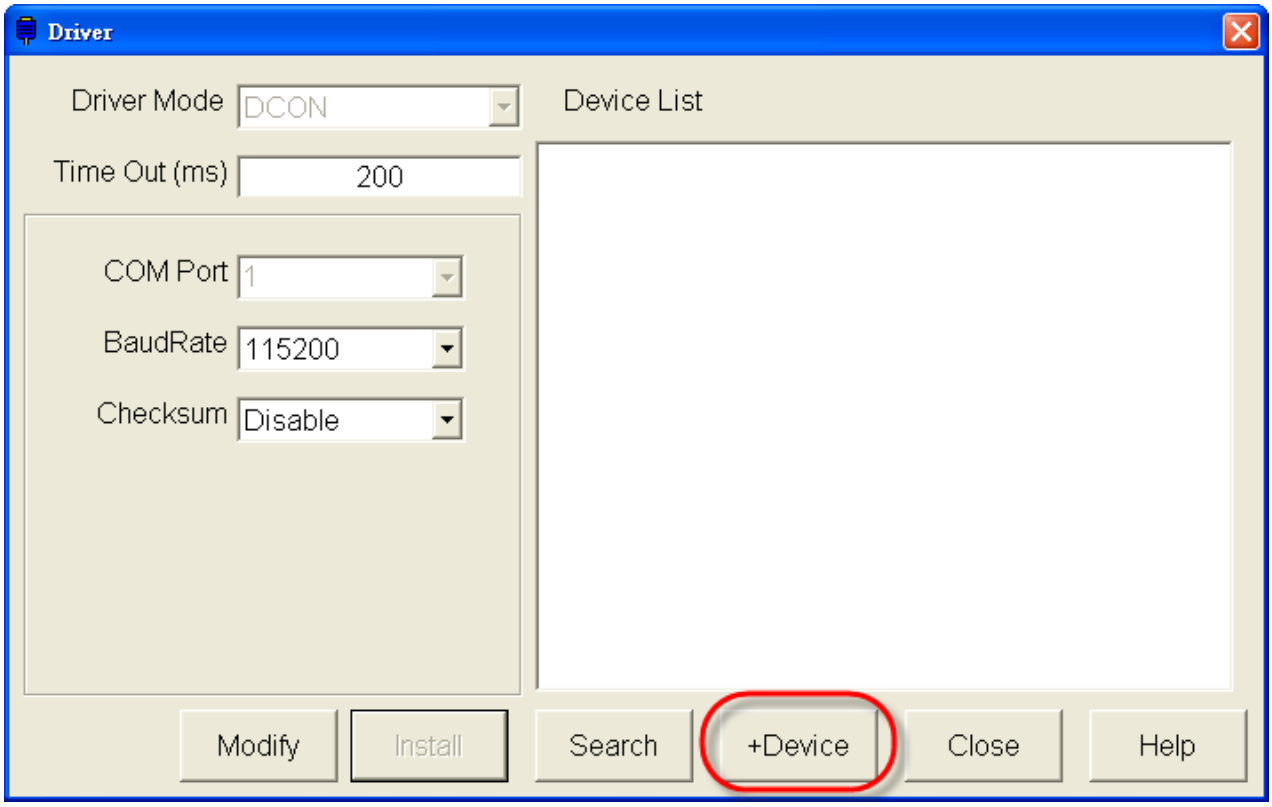


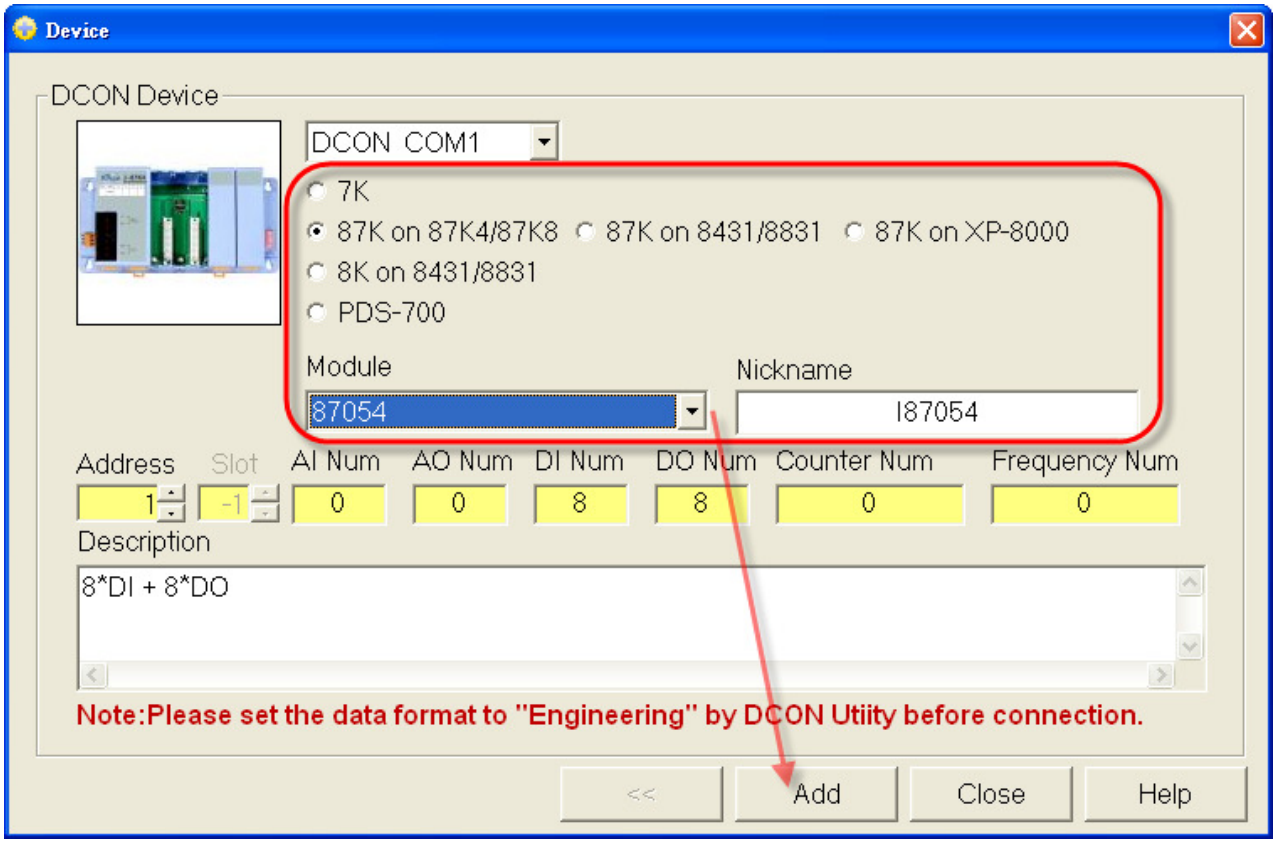
Step2： Click the **Install** button under “Driver List” to open the “Driver” setting form→ Select **DCON** driver and set its properties→ Click the **Install** button.



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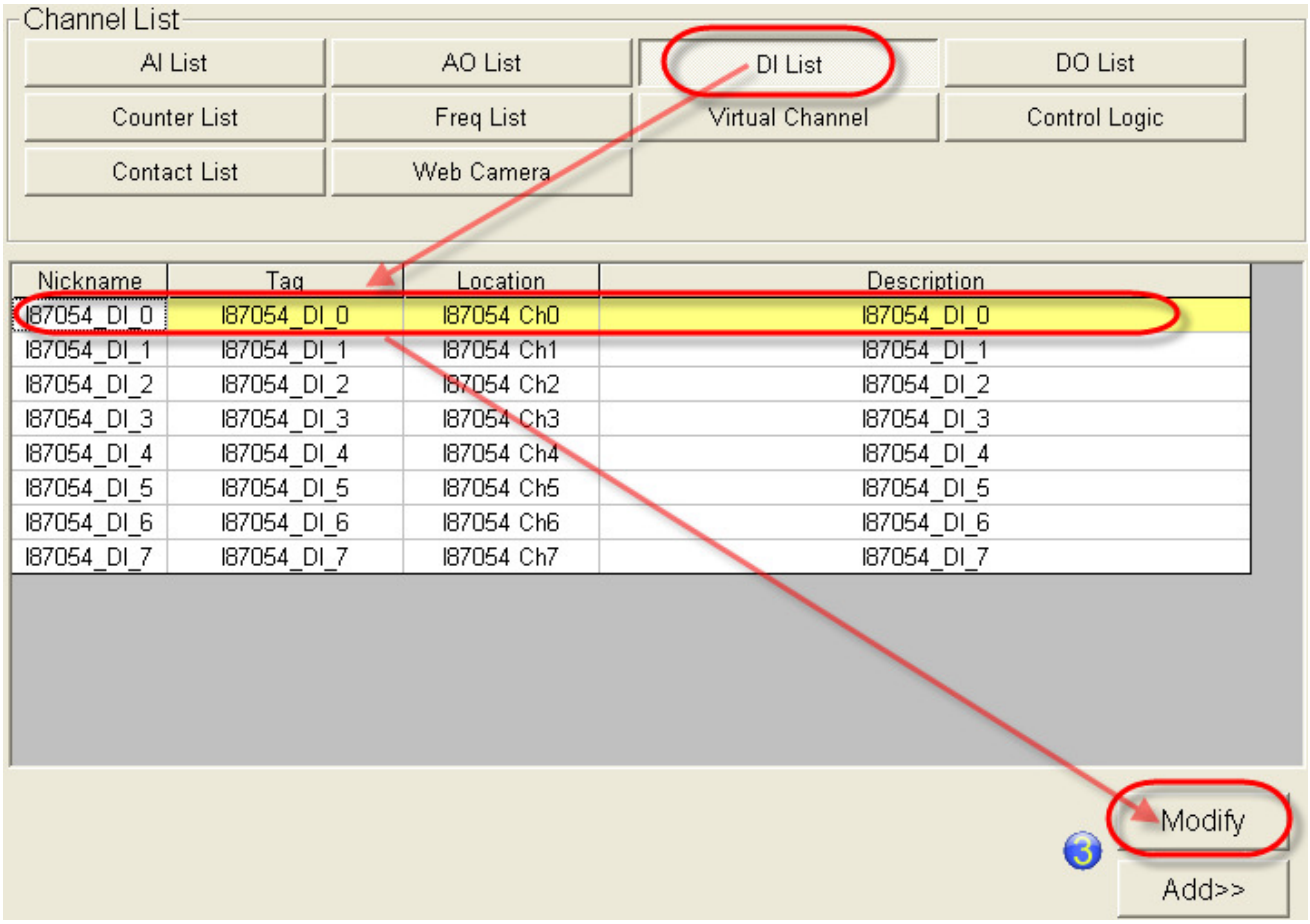
Step3：Click the **+Device** button to open the “Device” setting form→ After select the matching controller and module, click the **Add** button.



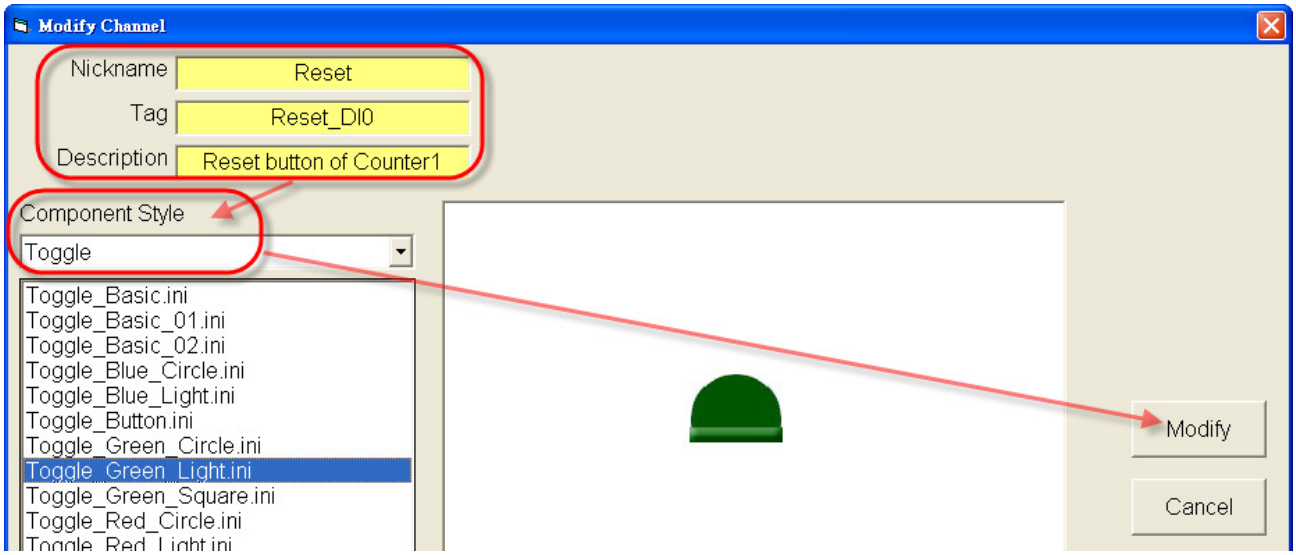


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Step4：Select the DI channel which connects with a physical button and the click the **Mofify** button to open its setting channel.

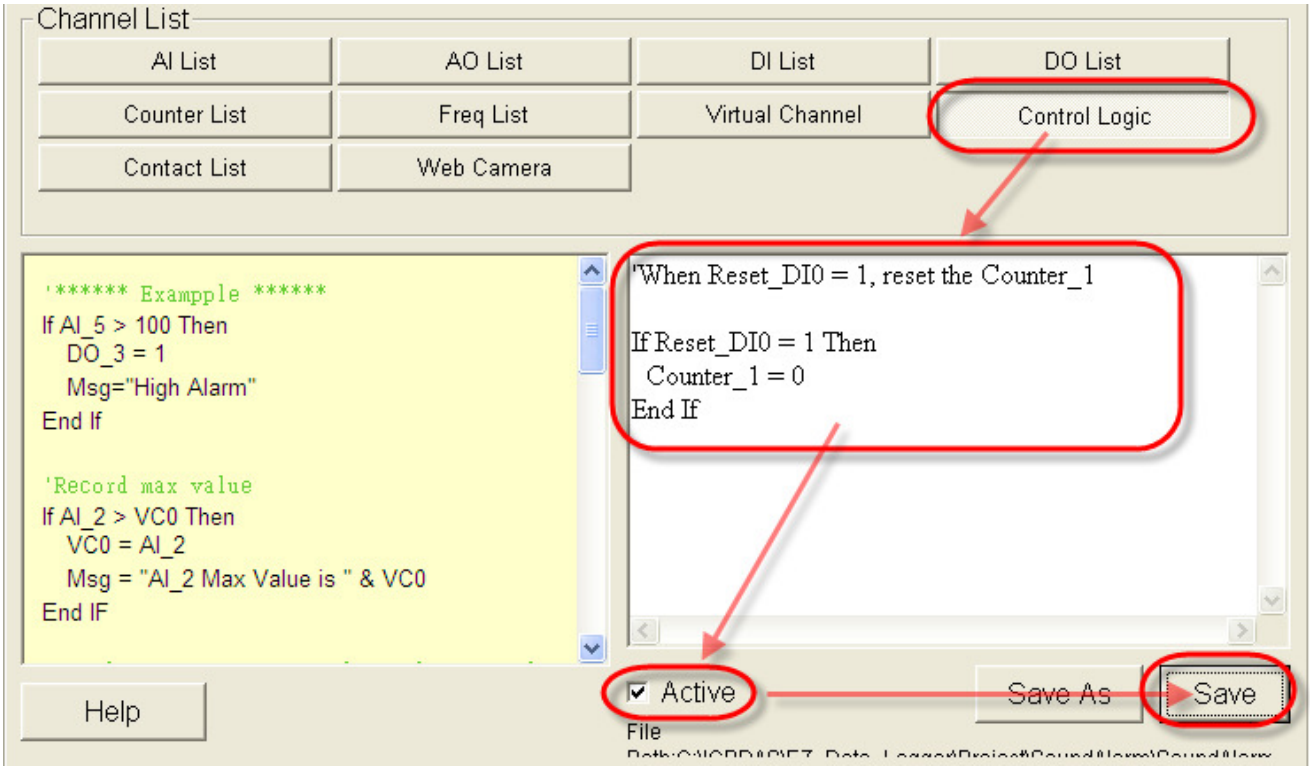


Step5：Configure the properties of DI channel, “Component Style” select **Toggle**, and then click the **Modify** button to save settings.



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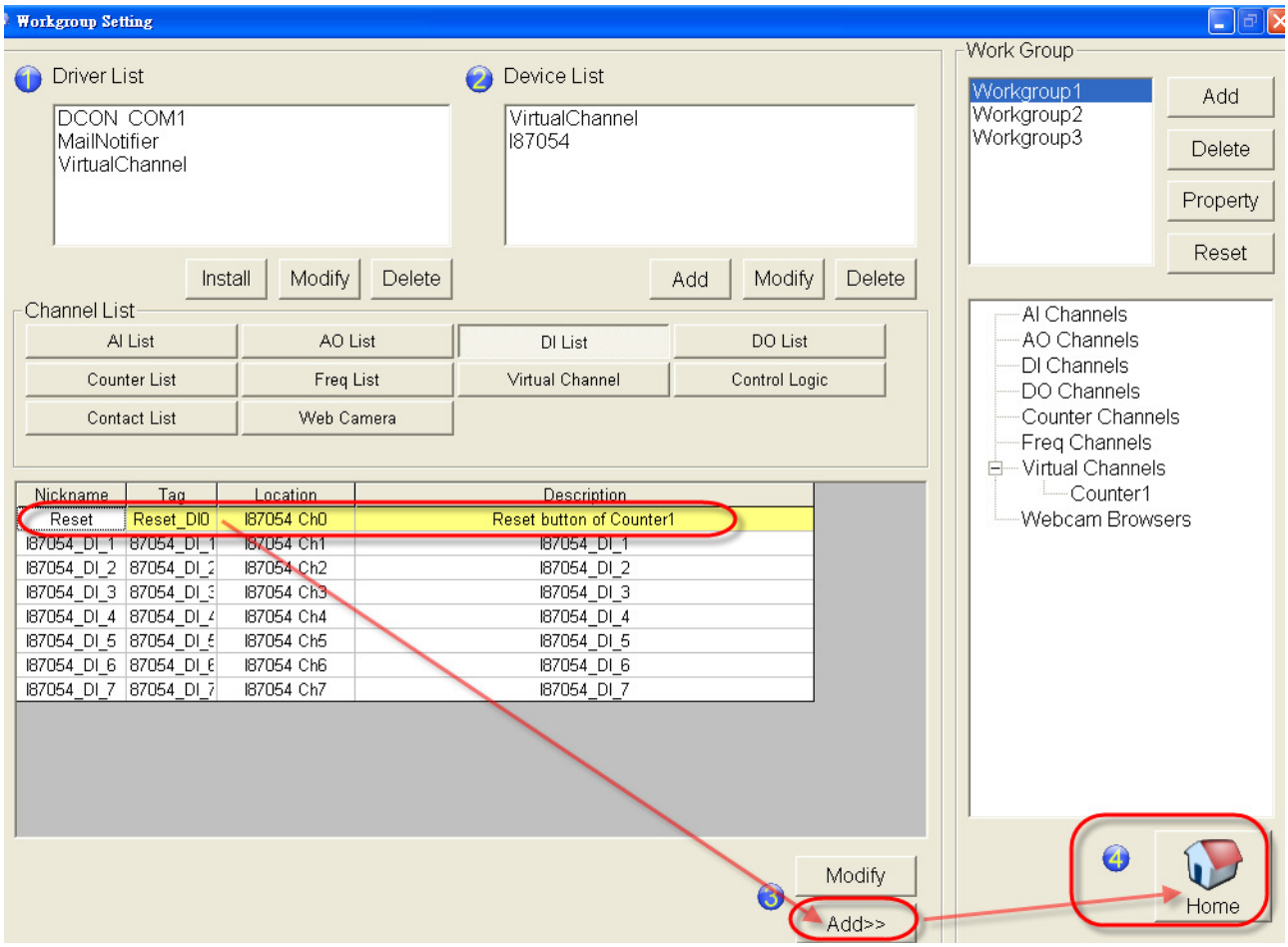
Step6：In the ”Workgroup setting” form, click **Control Logic** to edit VB Script→ Tick **Active** → Click the **Save** button to save settings.



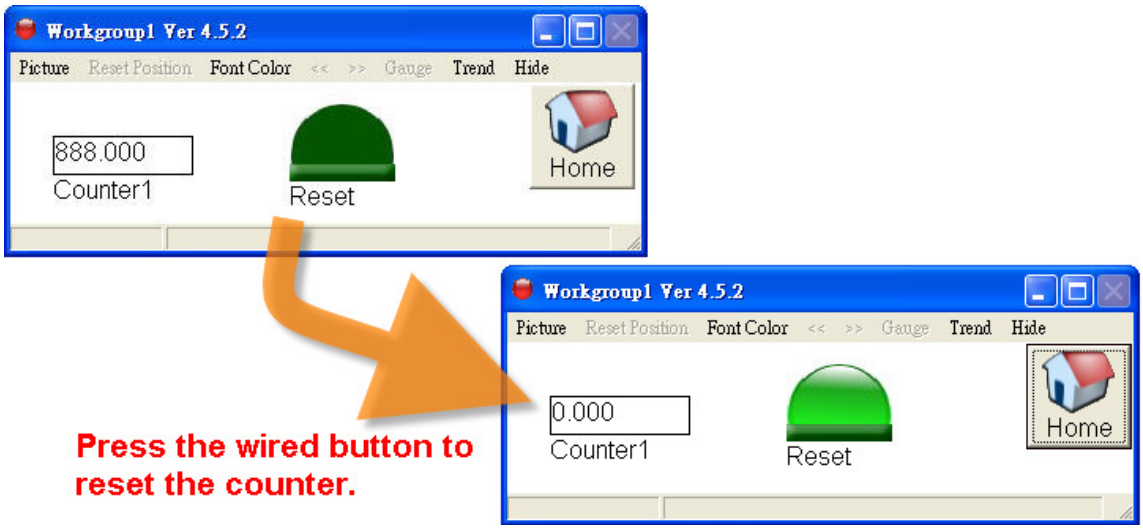
Note：In the VB Script, 1=ON and 0=OFF. But True/False operand is no use here. That is say True =\= ON and False =\= OFF.

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Step7： In the “Workgroup Setting” form, select the VC and DI channels that have been set and add them into Workgrou1, and then click the **Home** button to back the main form to execute the project.



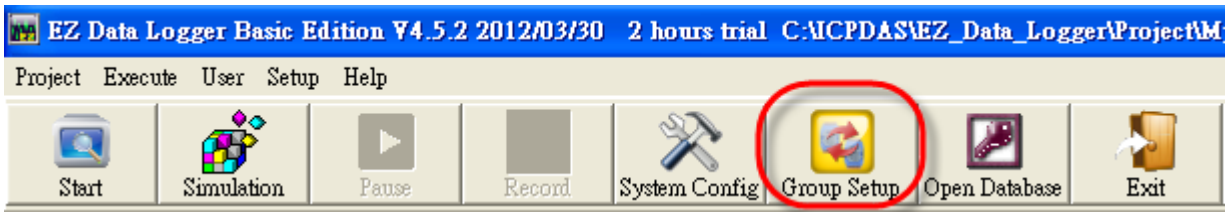
Step8： Click **Layout** to show the execution state like the below picture ↓



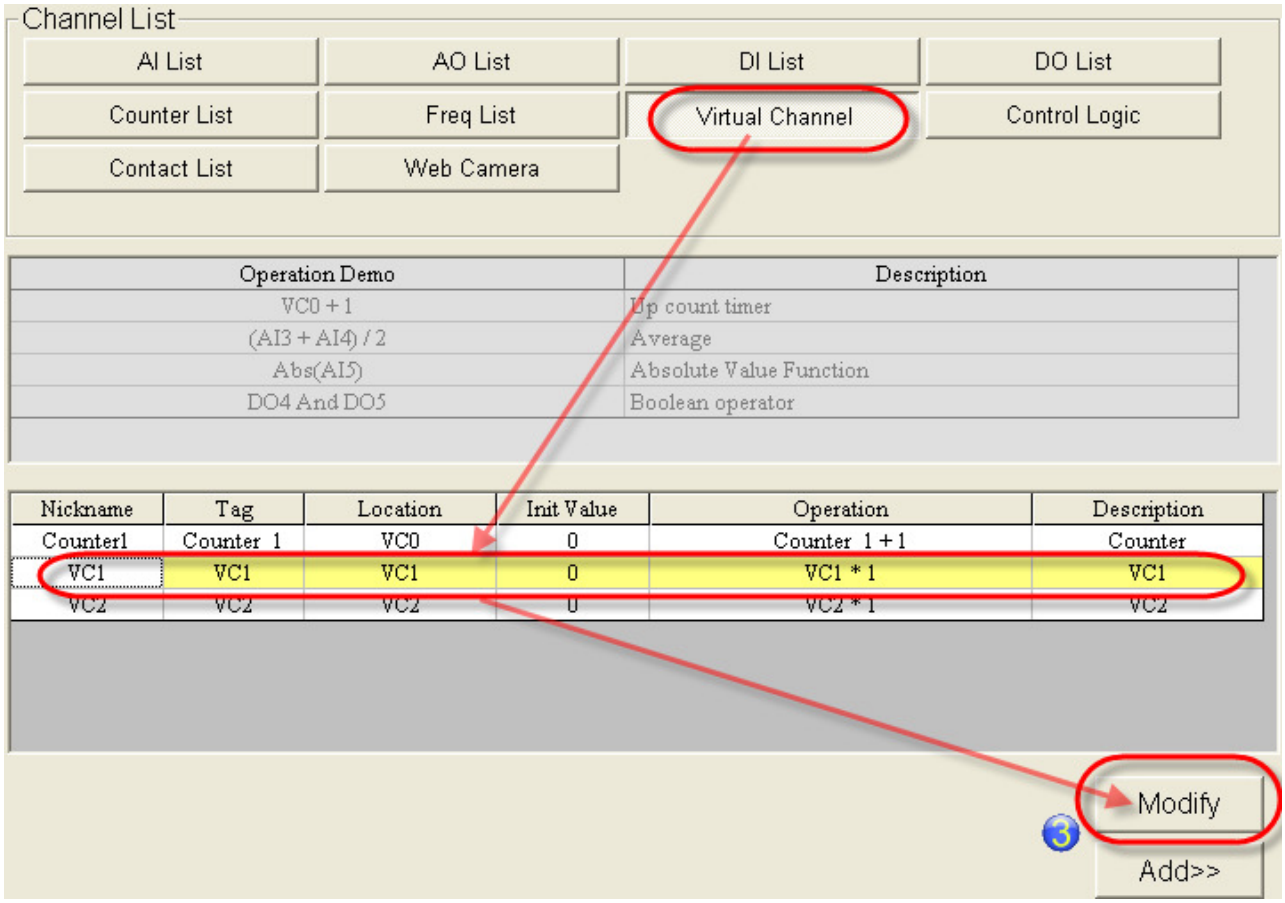
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2. Add a new VC channel, and set it to be a reset button for the counter.

Step1：Open **EZ Data Logger**, and then from the button list click the **Group Setup** button.

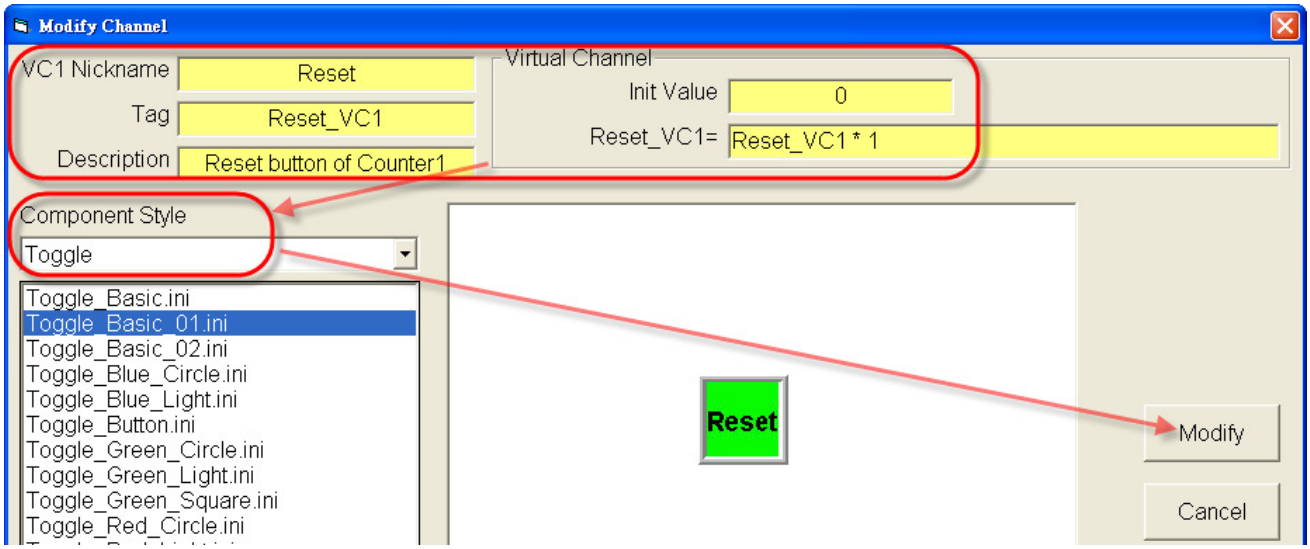


Step2：Choose a new VC channel, and then click the **Modify** button to open its setting form.

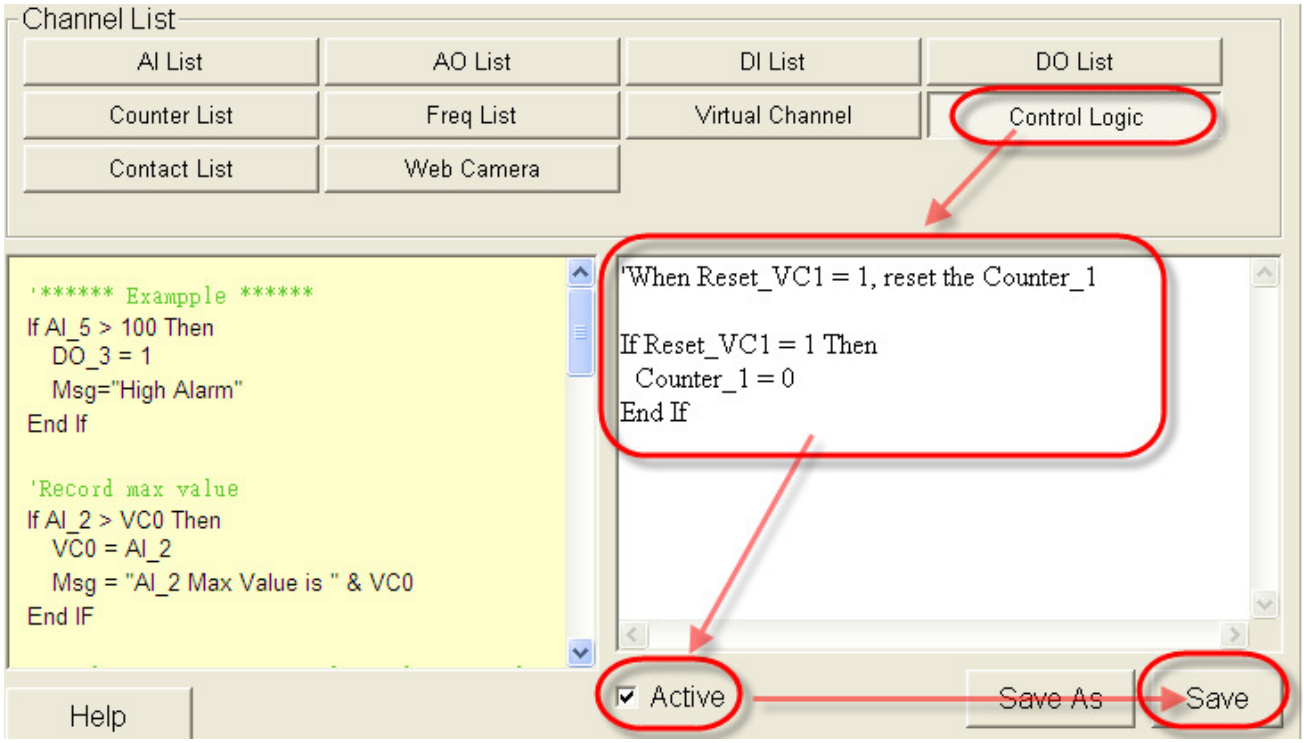


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Step3：Configure the properties and operation of VC1, “Component Style” select **Toggle**, and then click the **Modify** button to save settings.



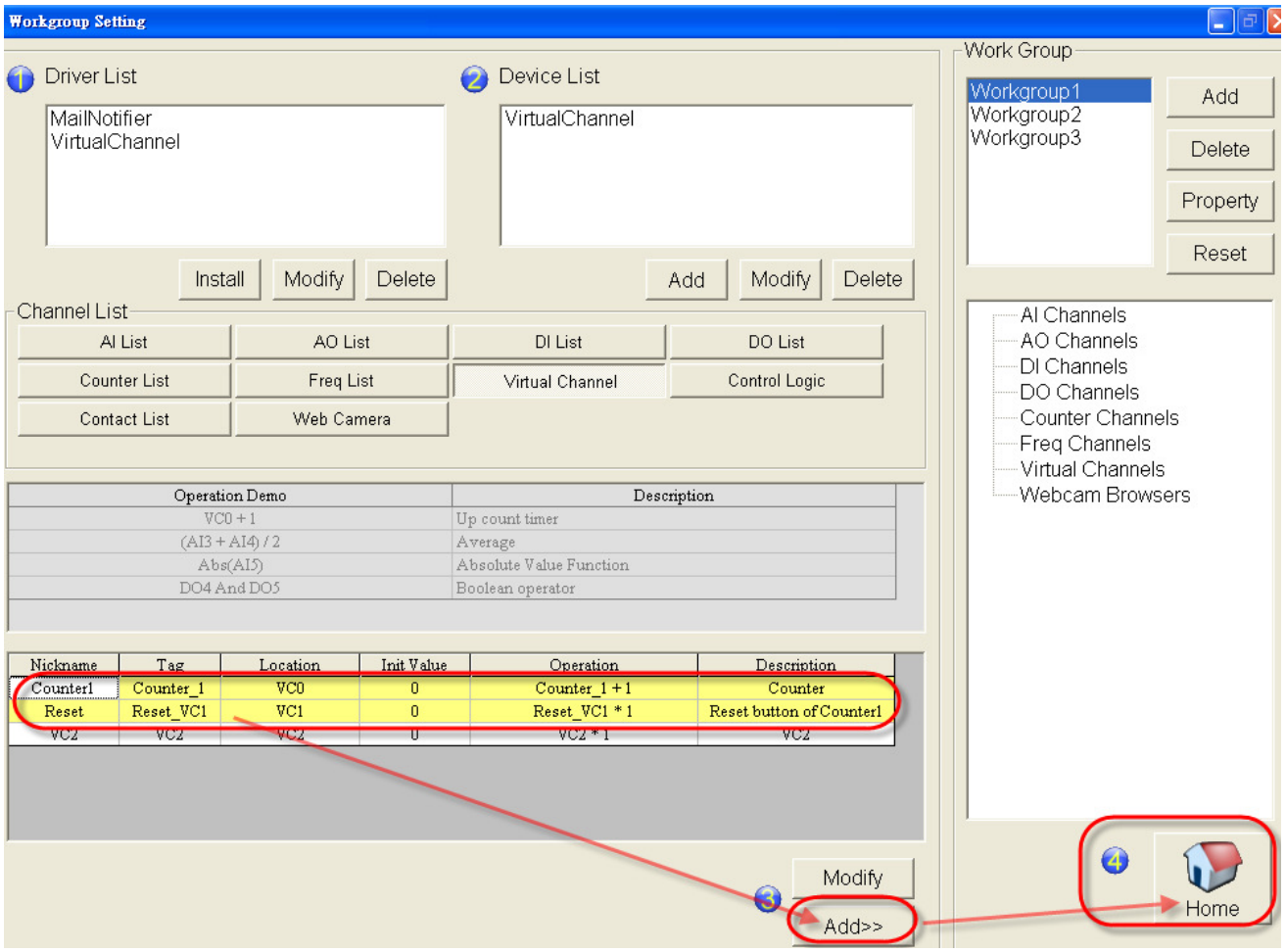
Step4：In the ”Workgroup setting” form, click **Control Logic** to edit VB Script→ Tick **Active** → Click the **Save** button to save settings.



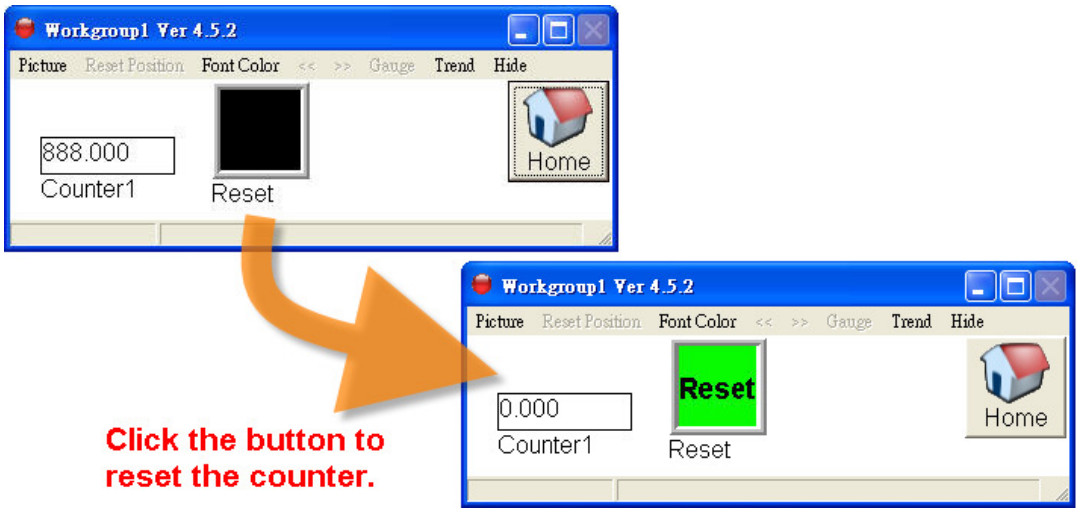
Note：In the VB Script, 1=ON and 0=OFF. But True/False operand is no use here. That is say True =\= ON and False =\= OFF.

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Step5： In the “Workgroup Setting” form, select the VC channels that have been set and add them into Workgrou1, and then click the **Home** button to back the main form to execute the project.



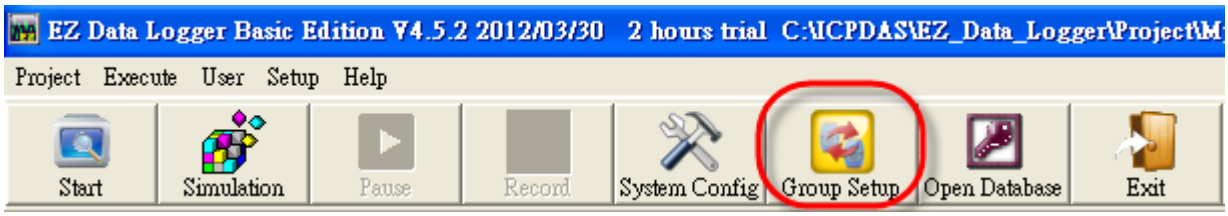
Step6： Click **Layout** to show the execution state like the below picture ↓



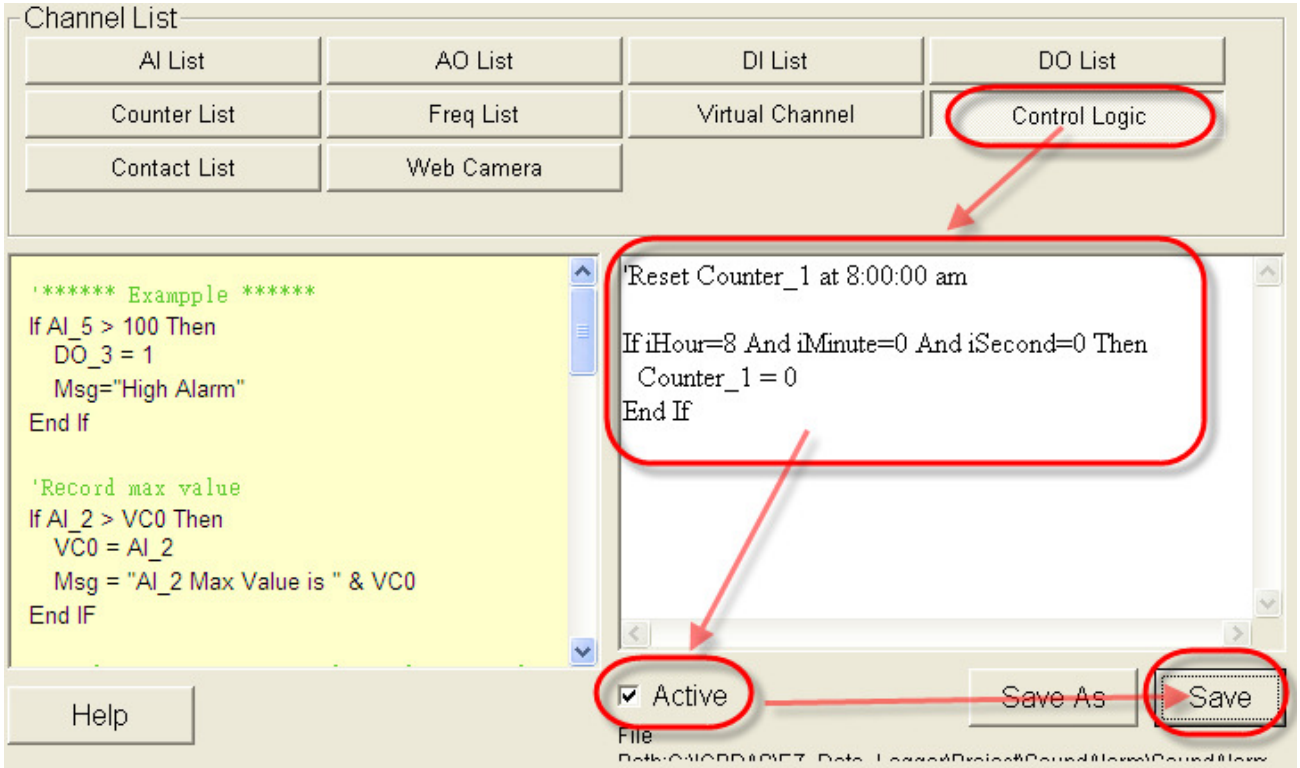
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3. Use the “Control Logic” to reset the counter at a particular time.

Step1：Open **EZ Data Logger**, and then from the button list click the **Group Setup** button.



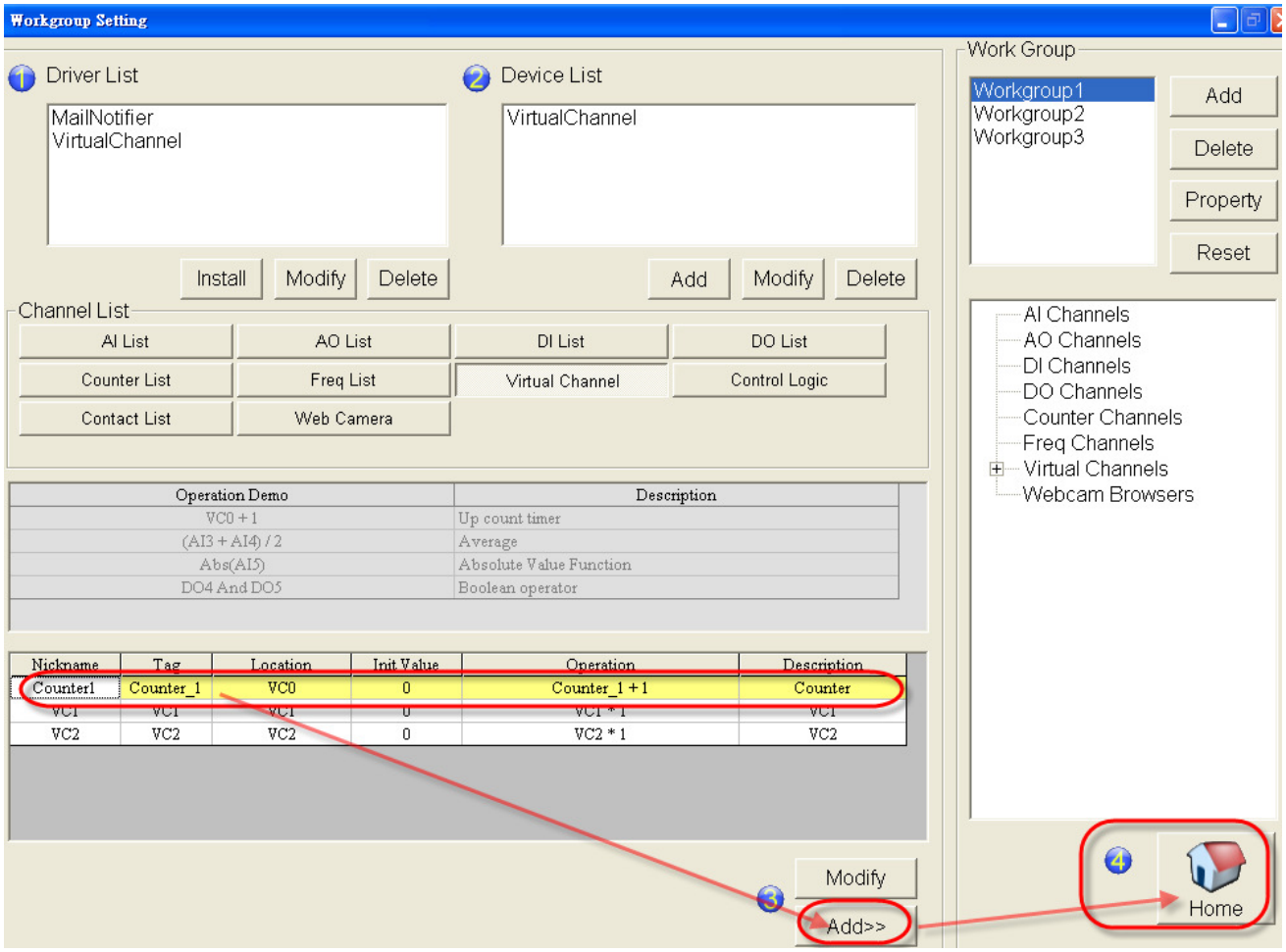
Step2：In the ”Workgroup setting” form, click **Control Logic** to edit VB Script→ Tick **Active** → Click the **Save** button to save settings.



Note：In order to start the scan process at the exact set scan time it is important to set the scan interval to 1 second. If the scan time interval is not set to 1 second the scan process will start with a delay. You can set the scan time interval (Sampling Time) in “System Config” form.

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Step3： In the “Workgroup Setting” form, select the VC channel that have been set and add it into Workgrou1, and then click the **Home** button to back the main form to execute the project.



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