分類/Classification	☐ tDS ☐ tGW ☐ PETL/tET/tPET ☐ DS/PDS/PPDS ☑ TouchPAD ☐ I/O Card ☐ VXC Card ☐ VxComm ☐ Other				
作者/Author	Tammy	日期/Date	2015-05-22	編號/NO.	FAQ014

Q: How can the PET-7060 be accessed using a TouchPAD?

A: Refer to the following for a detailed description of the configuration process:

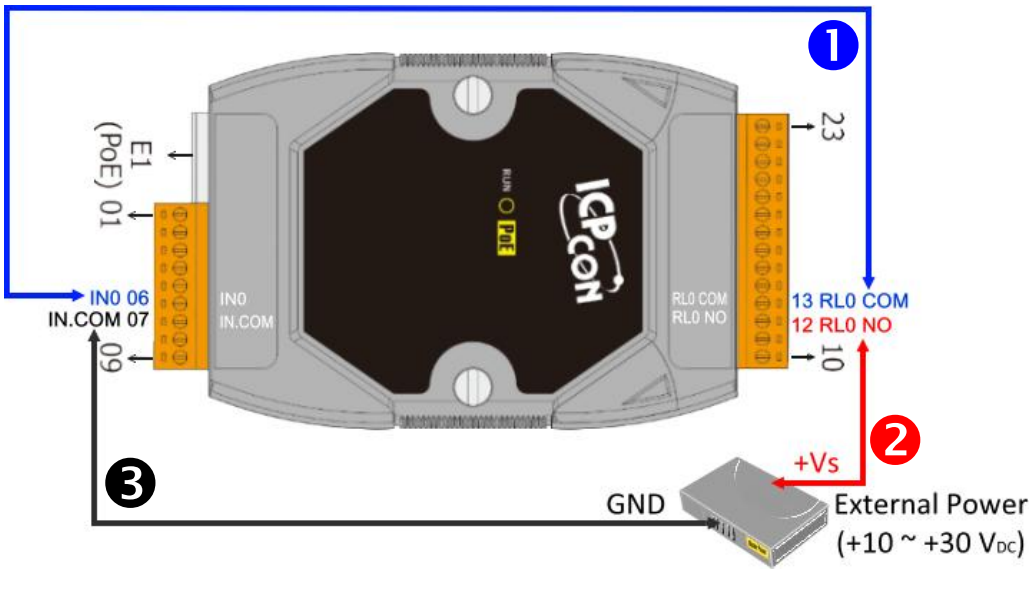
Step 1: Connect the PET-7060 module to the same hub or the same sub-network as the Host PC, and then attach a power supply to the PET-7060. Configure the correct network settings for the PET-7060 module.

Refer to the PET-7060 Quick Start Guide for more detailed information.

Download the Quick Start Guide.

Step 2: To perform a self-test, **connect the DO0 and DI0 pins** on the PET-7060 module using the following method:

(1) Connect the **RL0 COM pin** and the **IN0 pin**. (i.e., connect **Pin13** to **Pin06**).
(2) Connect the **+10 V External Power** supply to the **RL0 NO pin**.
(i.e., connect to **External + 10 V** to **Pin12**)
(3) Connect the **GND pin on the External Power** supply to the **IN.COM pin**.
(i.e., connect the **External GND** to **Pin07**)



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Step 3: Install the **HMIWorks** driver, which can be obtained from either the companion CD-ROM or from the ICPDAS website, as indicated below:

	CD:\NAPDOS\TouchPAD\Setup\
	http://ftp.icpdas.com/pub/cd/touchpad/setup/

(1) Double-click the **"HMIWorks_STD_vxxx_setup.exe"** file icon to execute the driver installation program.

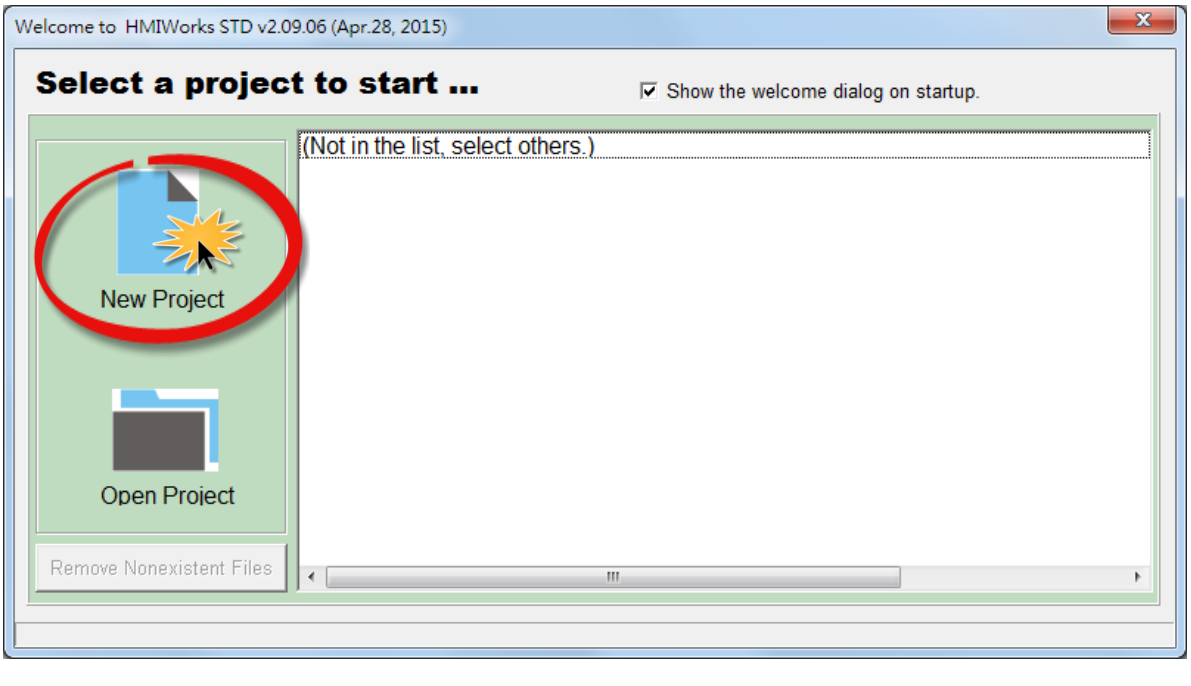


(2) Once the driver installation is complete, double-click the **"HMIWorks_STD_vxxx_Update_xx.exe"** file icon to execute the driver installation update program.



For more detailed information related to the driver installation, refer to Chapter 2 "Software Installation" in the TouchPAD Getting Started.

Step 4: Click the **"New Project"** icon to create a new project.

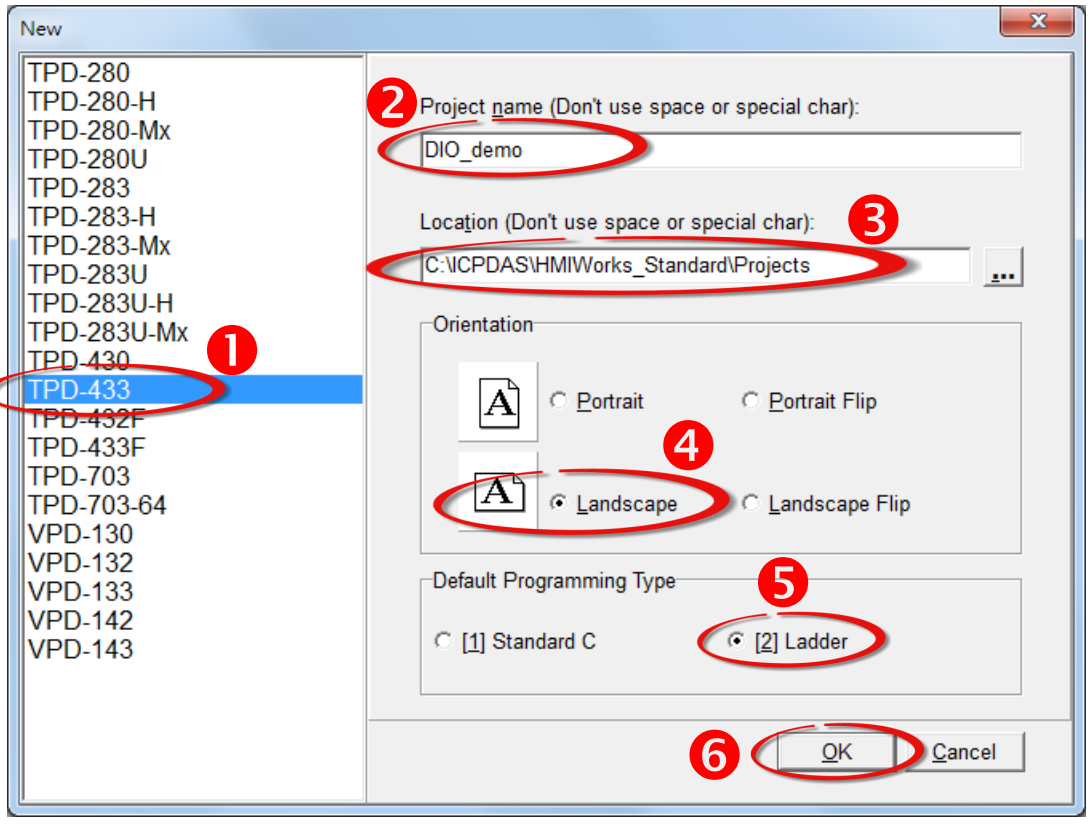


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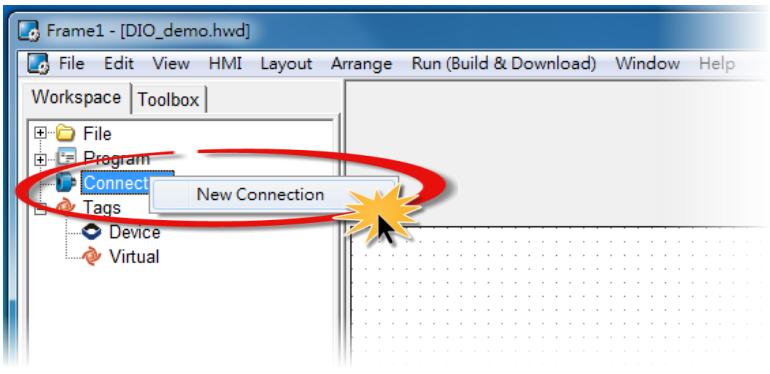
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Step 5: In the "New" dialog box, configure the parameters for the new project as follows:

1. Select the TouchPAD model name, TPD-433 in this case.
2. Enter a name for the project.
3. Select the location where the project should be saved.
4. Select the orientation for the display.
5. Select the Default Programming Type.
6. Click the **"OK"** button to save the configuration.



Step 6: **Right-click** the **"Connection"** item in the "Workspace" pane and then click the **"New Connection"** option to open the **"New/Edit Connection…"** dialog box.

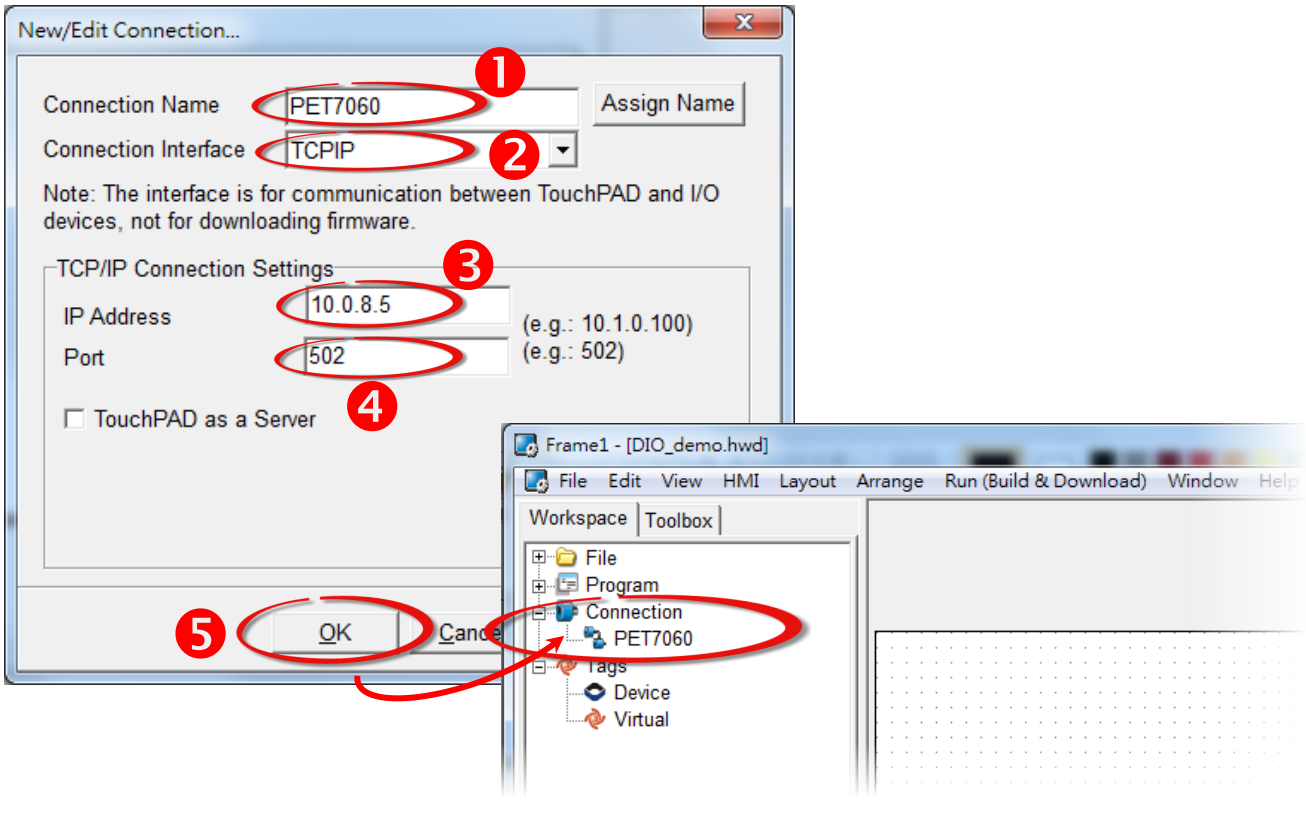


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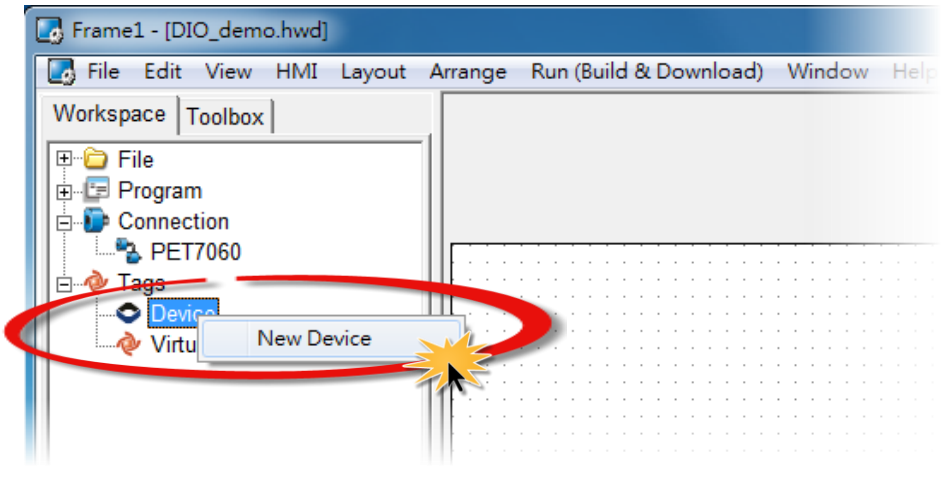
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Step 7: In the "**New/Edit Connection…**" dialog box, configure the connection information of the PET-7060 module as follows:

1. Enter a name for the connection (e.g. PET7060, TCP1) in the "Connection Name" field.
2. Select **"TCPIP"** from the "Connection Interface" drop down menu.
3. Enter the **IP Address of the PET-7060** module in the "IP Address" field.
4. Enter the **TCP Port of the PET-7060** module in the "Port" field.
5. Click the **"OK"** button to save the configuration.



Step 8: **Right-click** the **"Device"** item in the "Workspace" pane and click the **"New Device"** option to open the **"Devices"** dialog box.

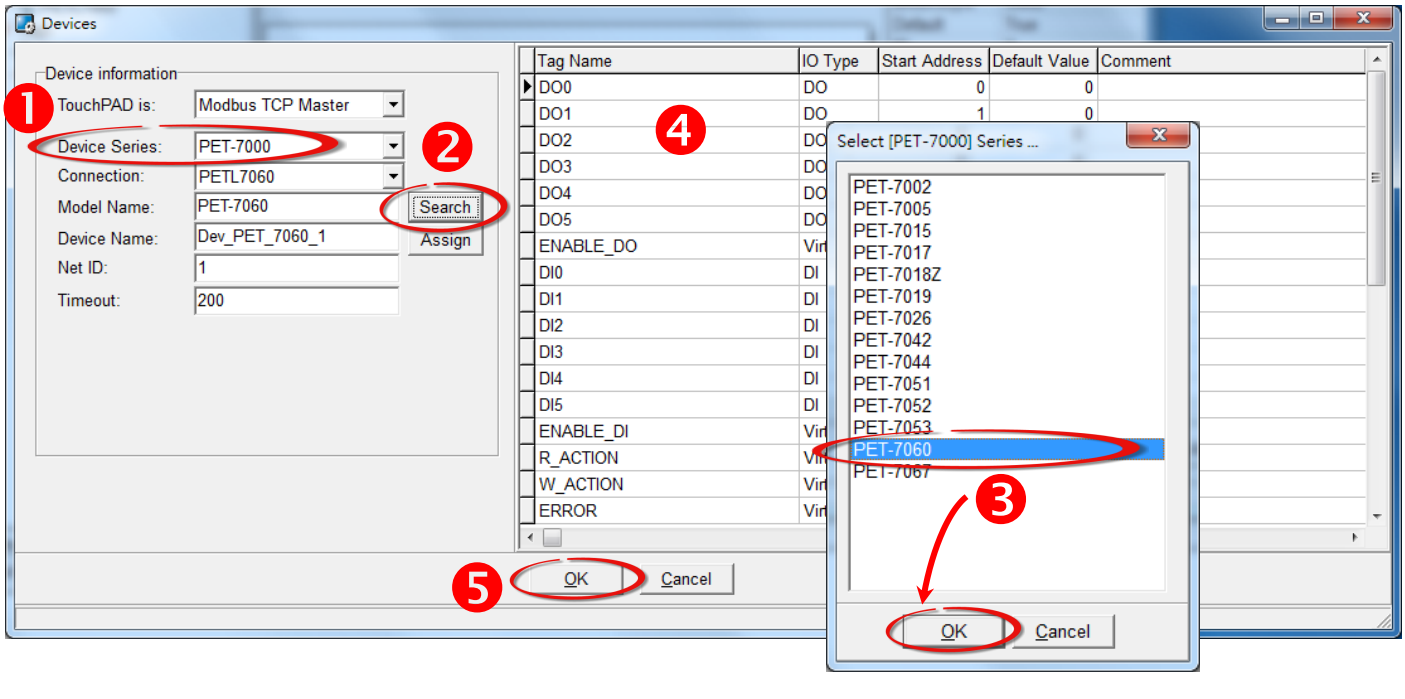


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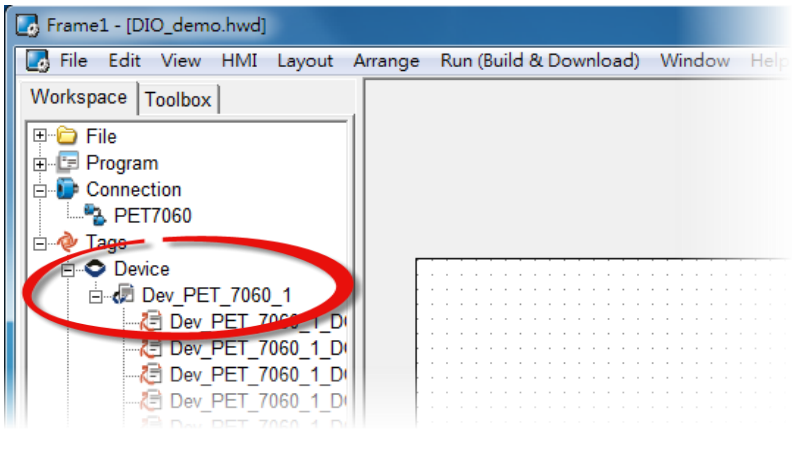
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Step 9: In the **"Devices"** dialog box, configure the device information as follows:

1. Select **"PET-7000"** from the "Device Series" drop down menu.
2. Click the **"Search"** button to open the "Select [PET-7000] Series…" dialog box.
3. In the **"Select [PET-7000] Series…"** dialog box, select the PET-7060 module and then click the **"OK"** button.
4. Verify that the **information for the PET-7060 module is correct** (e.g., the Model Name, Device Name, Tag Name, IO Type, Start Address and Default Value, etc.).
5. Click the **"OK"** button to save the configuration.



Step 10: The creation of the **"Dev_PET_7060_1"** device is now complete.

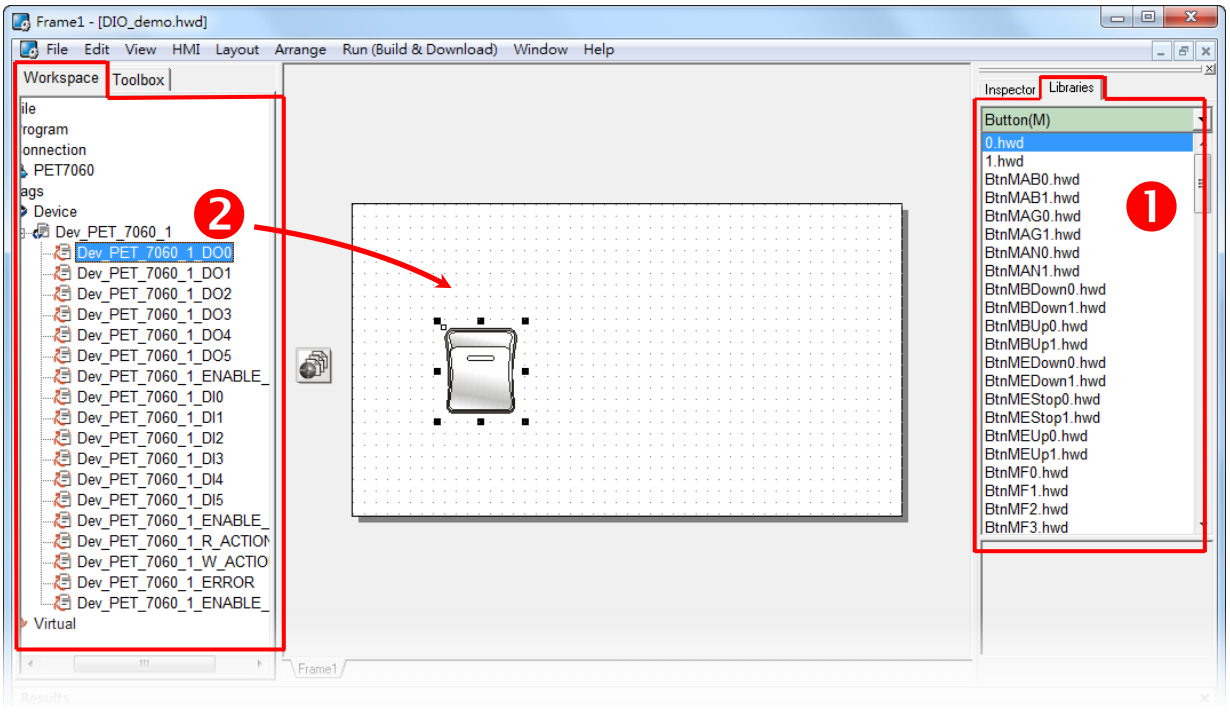


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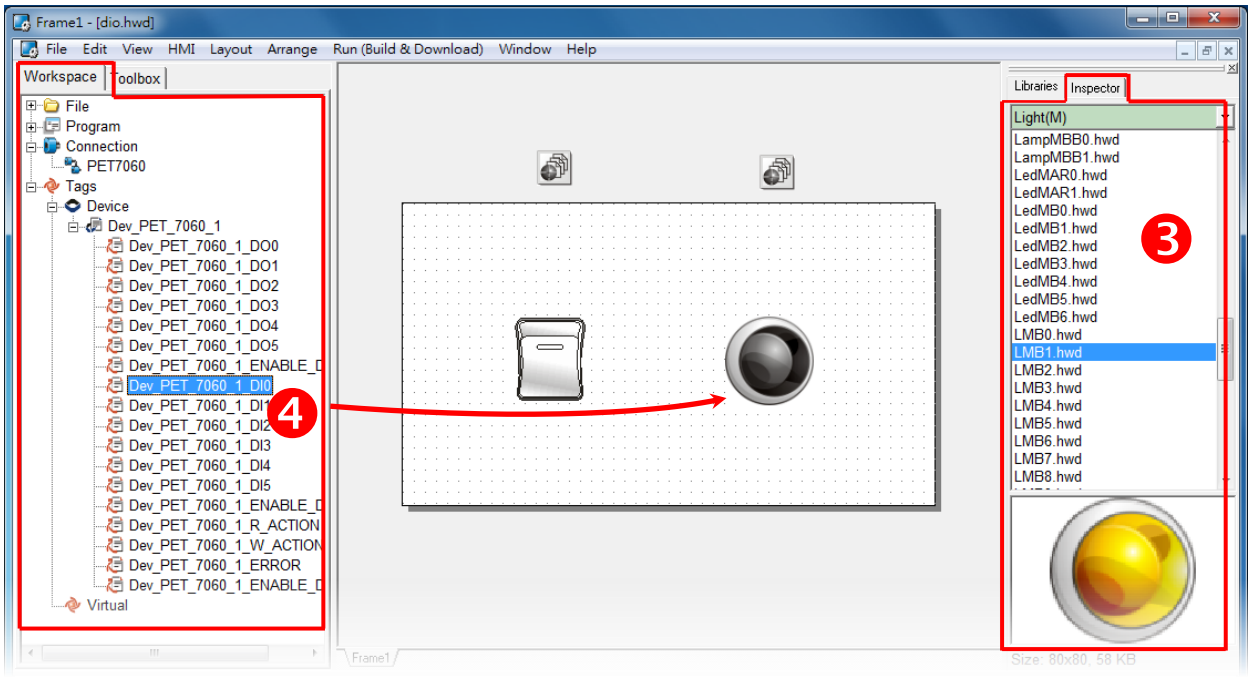
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Step 11: Use the following procedure to create a DIO sample program:

1. Select an icon to represent the DO0 tag from the “Libraries” pane.
2. Drag the "Dev_PET_7060_1_DO0" tag from the "Workspace" pane to the design frame.



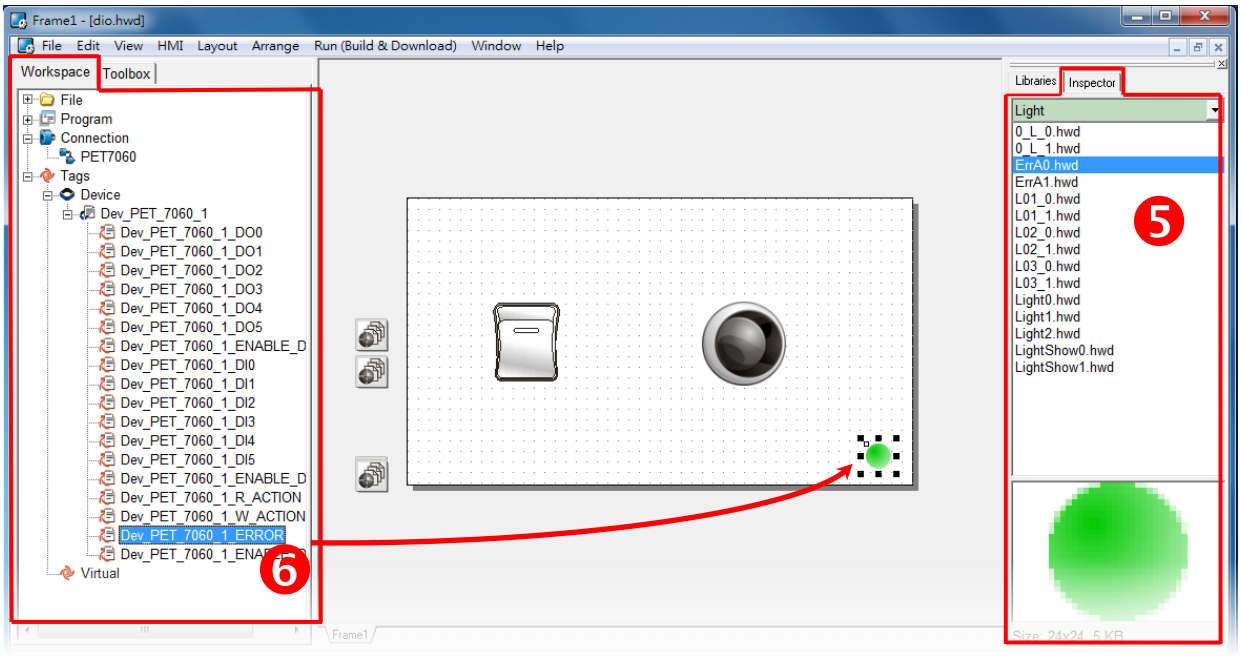
3. Select an icon to represent the DI0 tag from the “Libraries” pane.
4. Drag the "Dev_PET_7060_1_DI0" tag from the "Workspace" pane to the design frame.



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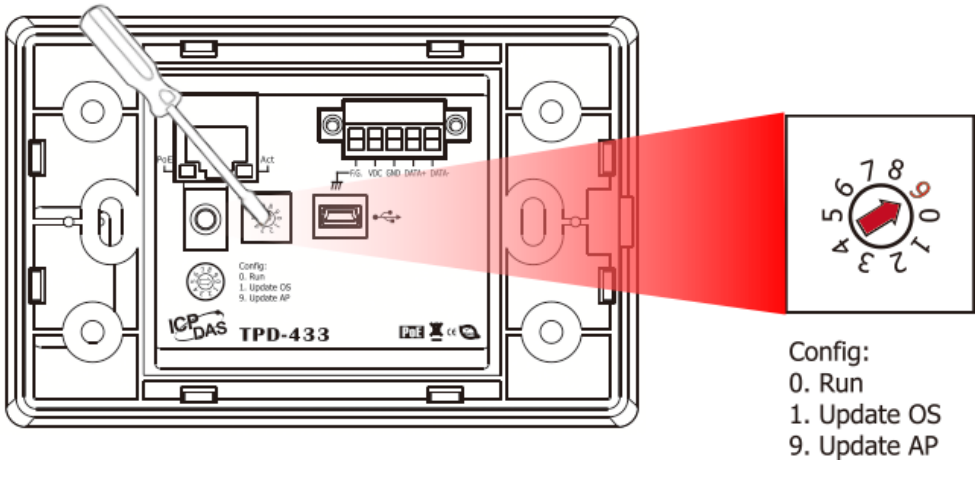
5. Select an icon to represent the EEROR tag from the “Libraries” pane.
6. Drag the "Dev_PET_7060_1_ERROR" tag from the "Workspace" pane to the design frame.



The creation of the DIO sample program is now complete.

Step 12: Once the DIO sample program is complete, it can be uploaded to the TPD-433 module via USB. The detailed configuration and wiring information is as follows:

1. Power off the TPD-433 module and use a flat-head screwdriver to set the **Rotary Switch** on the TPD-433 module to **“Update AP” mode (position 9)**. Note that the default configuration is **“Run” mode (position 0)**.



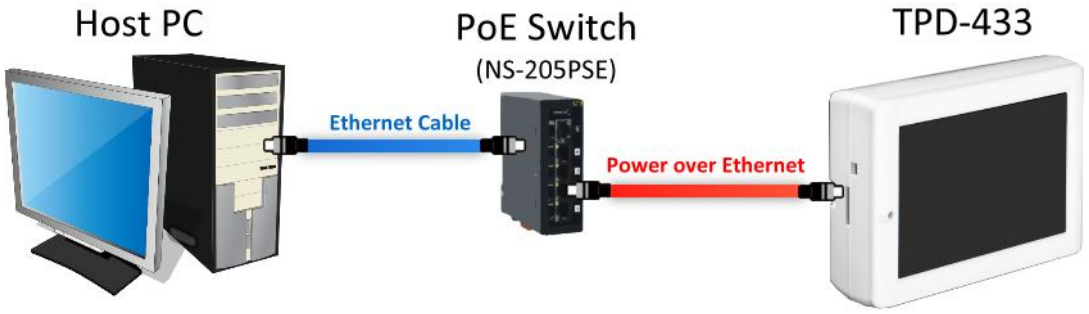
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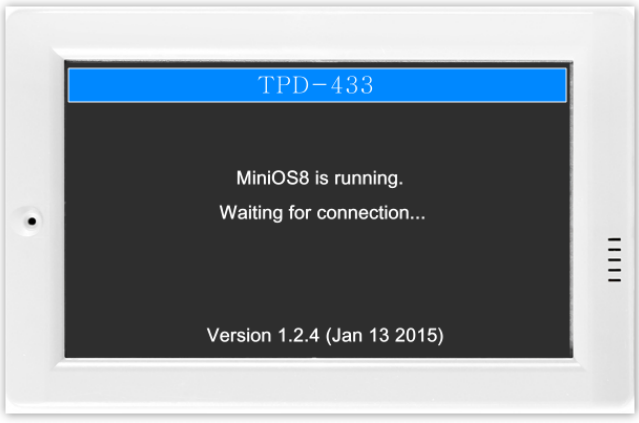
2. Connect the **TPD-433** module to the **Host PC** using a **CA-USB10** cable.



3. Connect both the TPD-433 module and the Host PC to the same sub network or use a Power over Ethernet Switch (e.g., an NS-205PSE) and supply power to the TPD-433 via the PoE Switch.



4. The message: **"MiniOS8 is running. Waiting for connection…"** will be displayed on the TPD-433 module.

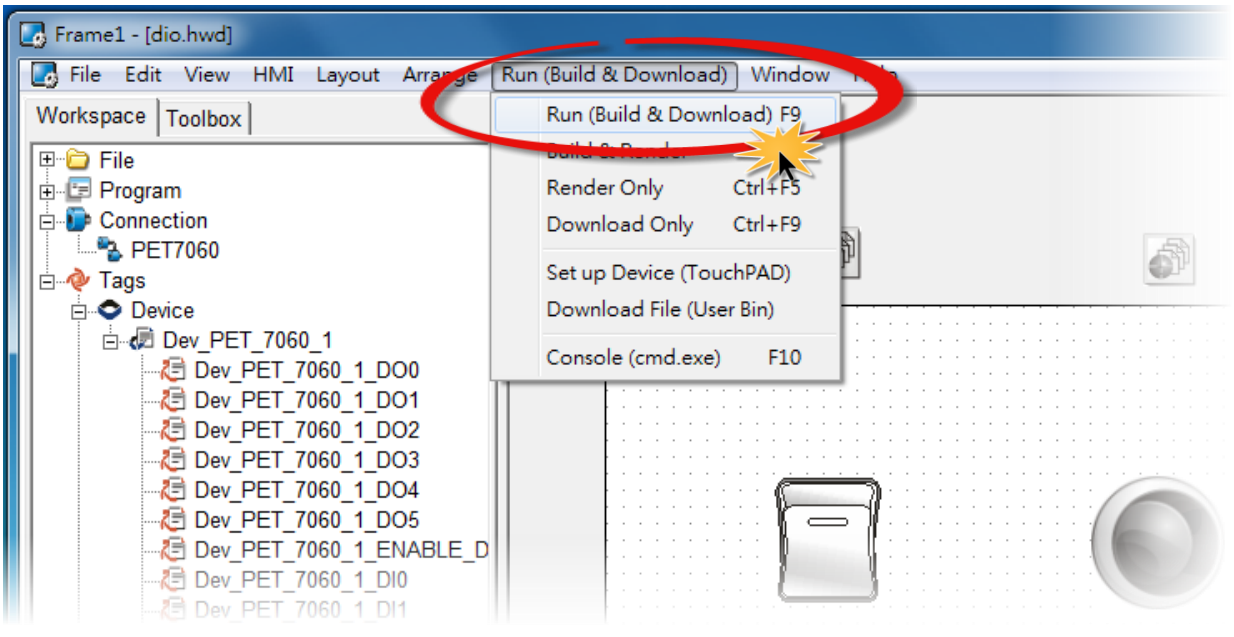


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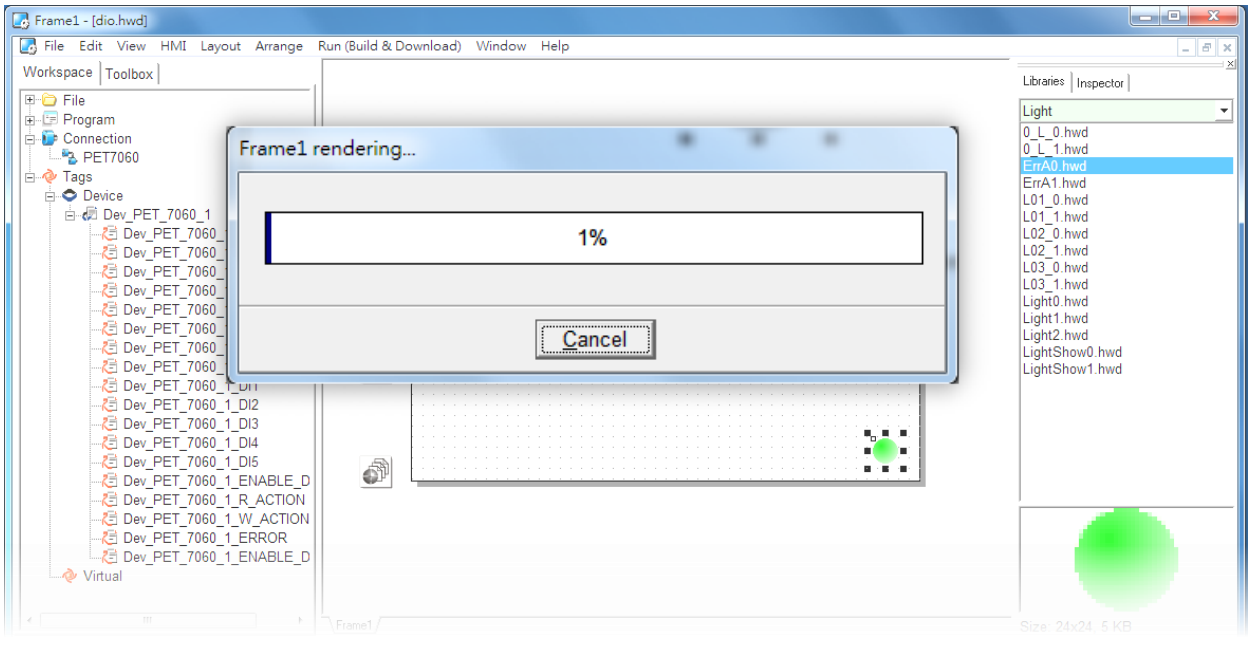
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Step 13: The DIO sample program can now be uploaded to the TPD-433 module. Follow the procedure described below:

1. In the HMIWorks application, click the **"Run (Build & Download) F9"** item from the **"Run (Build & Download)"** menum, or press **F9**.



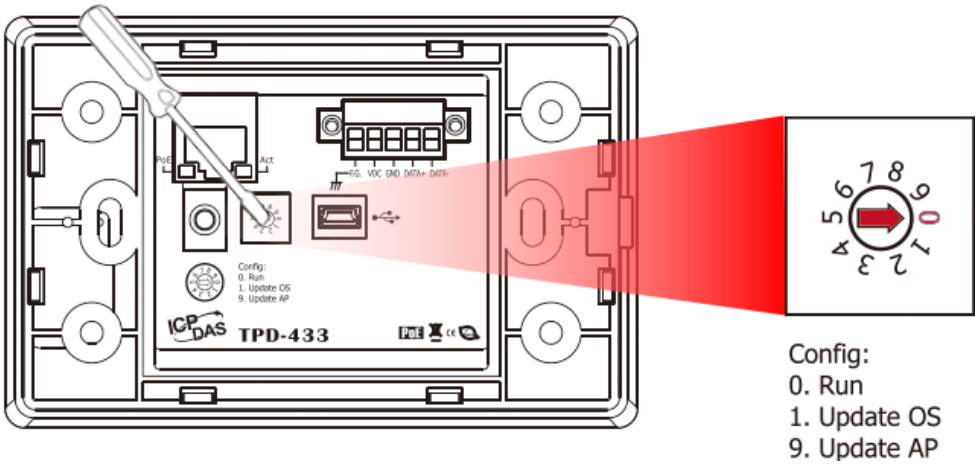
2. The **"Frame1 rendering…"** dialog will be displayed showing the progress of the update.



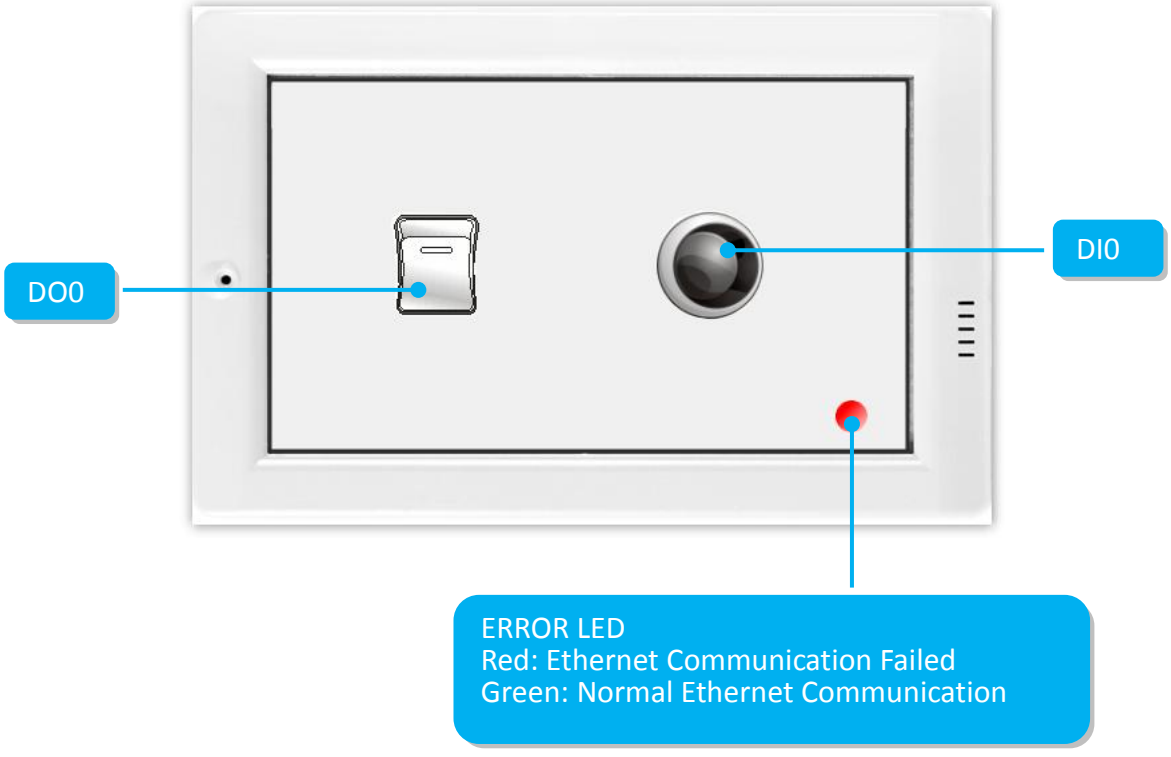
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3. Once the upload is complete (i.e., when the progress indicator reaches 100%), power off the TPD-433 module and set the **Rotary Switch to "Run" mode (position 0)**.



4. **Power-on and reboot** the TPD-433 module so that the module is operating in **"Run" mode**. The TPD-433 module will then execute the DIO sample program.

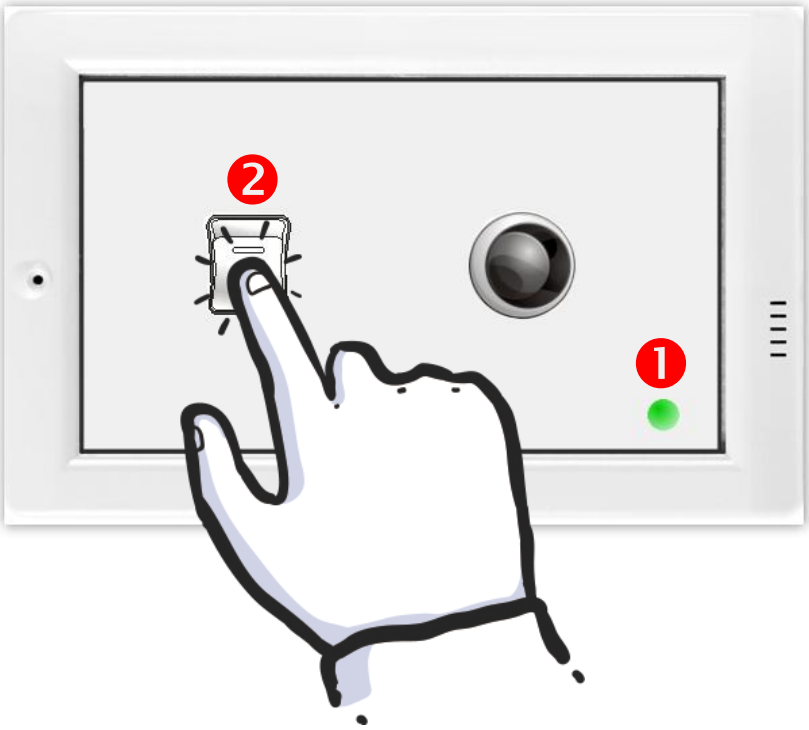


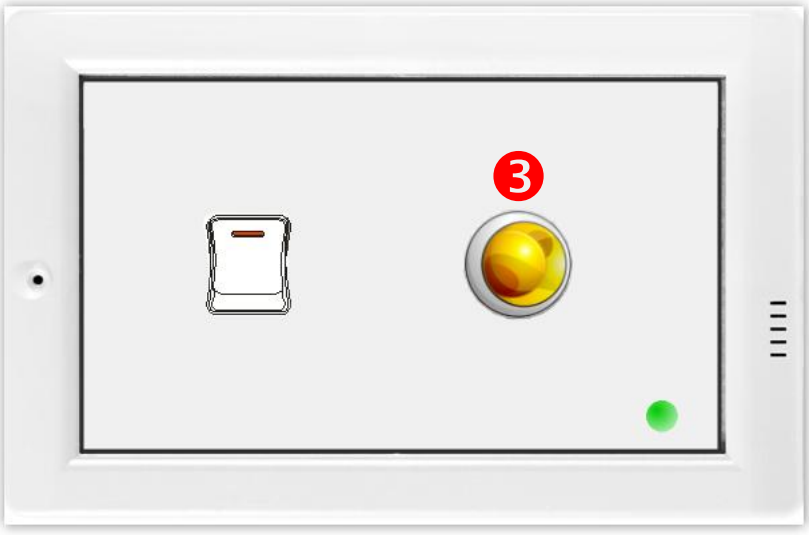
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Step 14: Verify the results of the DIO functions test in the following manner.

1. Check that the ERROR LED on the PET-7060 is the normal operational state (green).
2. Tap the DO0 icon on the TPD-433 module.
3. Check that the DI0 icon has changed between states (e.g., yellow or grey).





-Complete-

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