Packing List

In addition to this guide, the package includes the following items:

IR-210	CA-0910 * 1
CA-IR-SH2251 * 2 **(IR-210)**	CA-IR-SH2251-5 * 2 **(IR-210-5)**

Technical Support

service@icpdas.com

www.icpdas.com

Resources

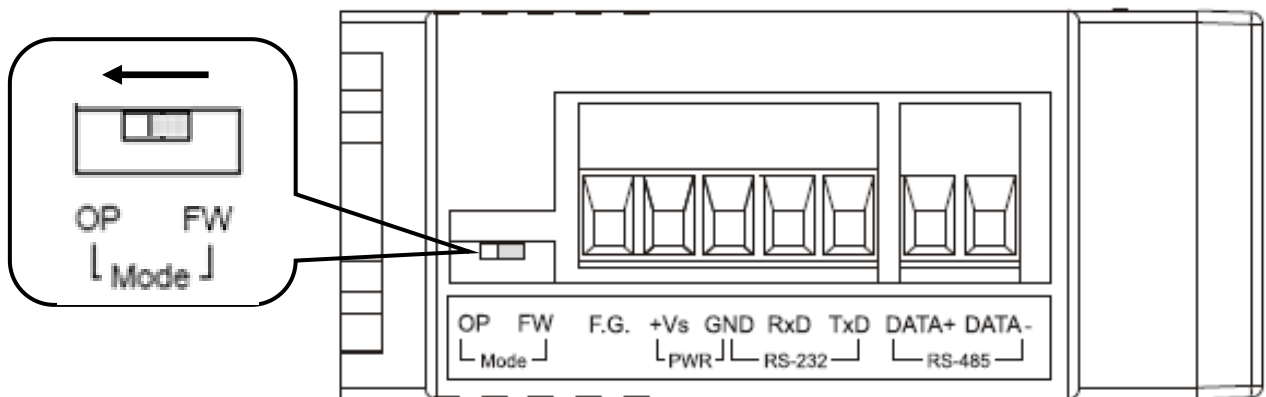How to search for drivers, manuals and spec information on ICP DAS website.
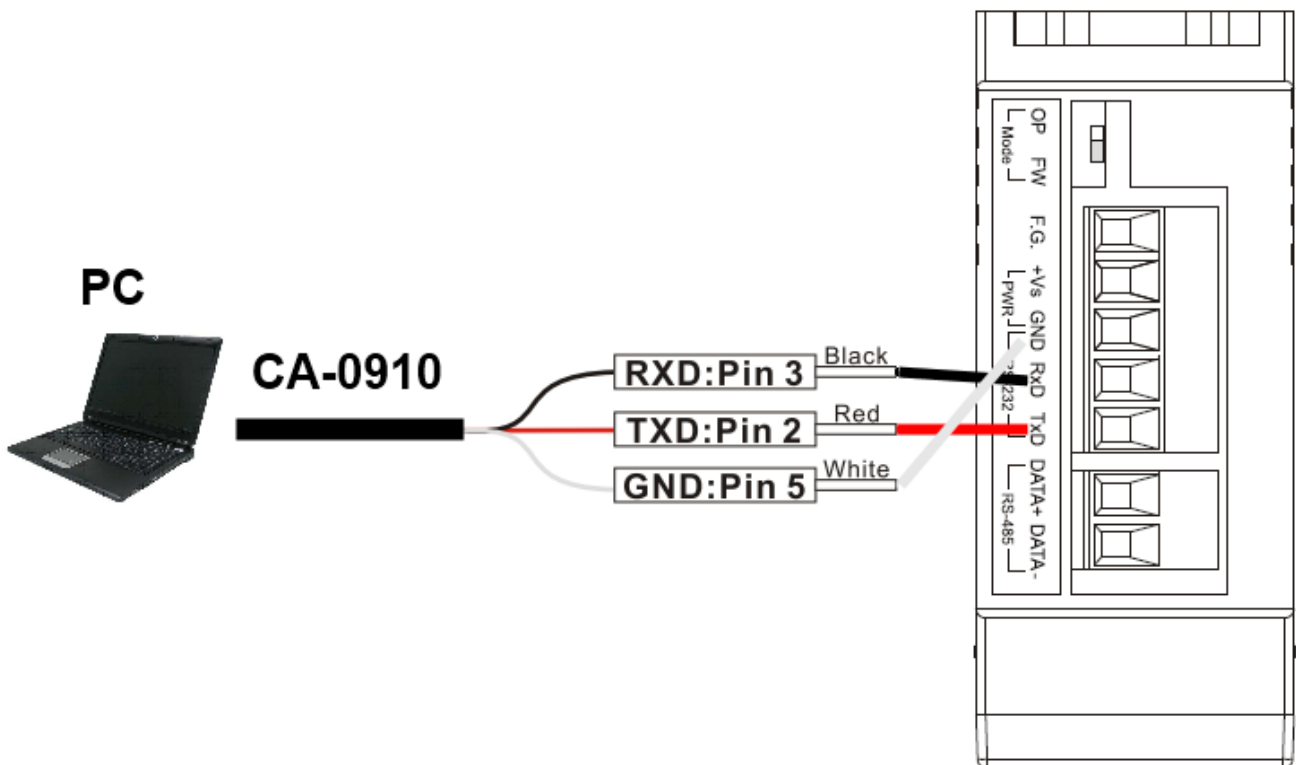
• For Mobile Web
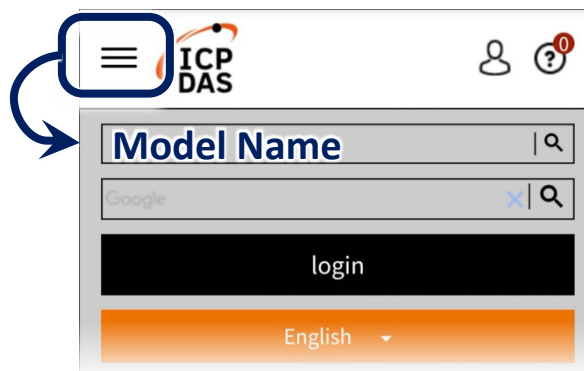
• For Desktop Web

1. Check operation mode

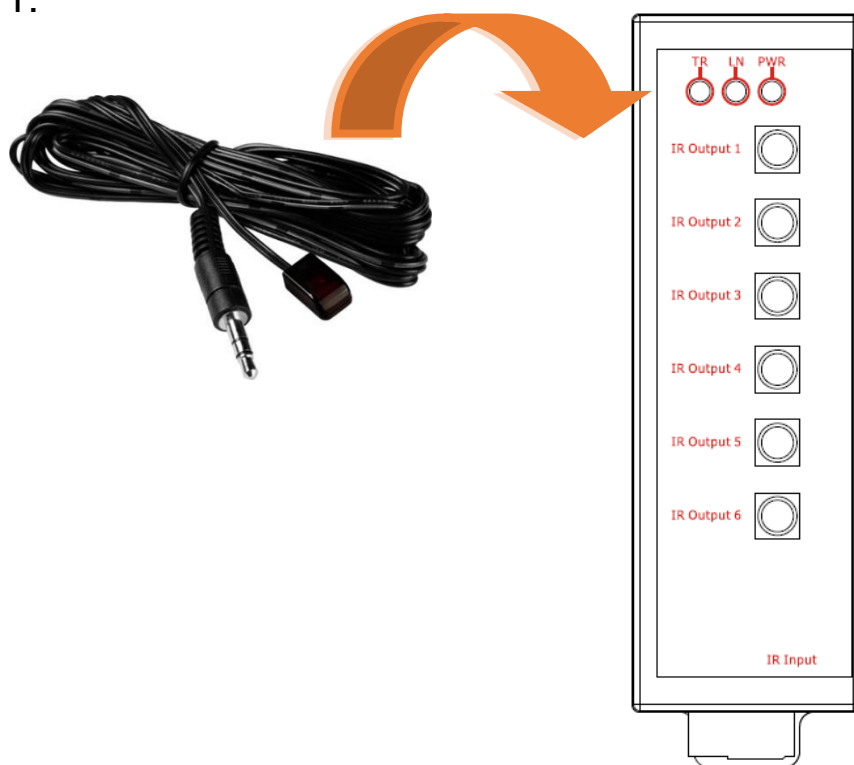Push DIP switch to the position of normal operation mode (OP).

2. Serial Wire Connection to PC

Use the RS-232 cable (CA-0910) to establish the wire connection between IR-210 and PC as shown in the following figure. The DB9 (9-pin) connector of CA-0910 is for PC COM port.
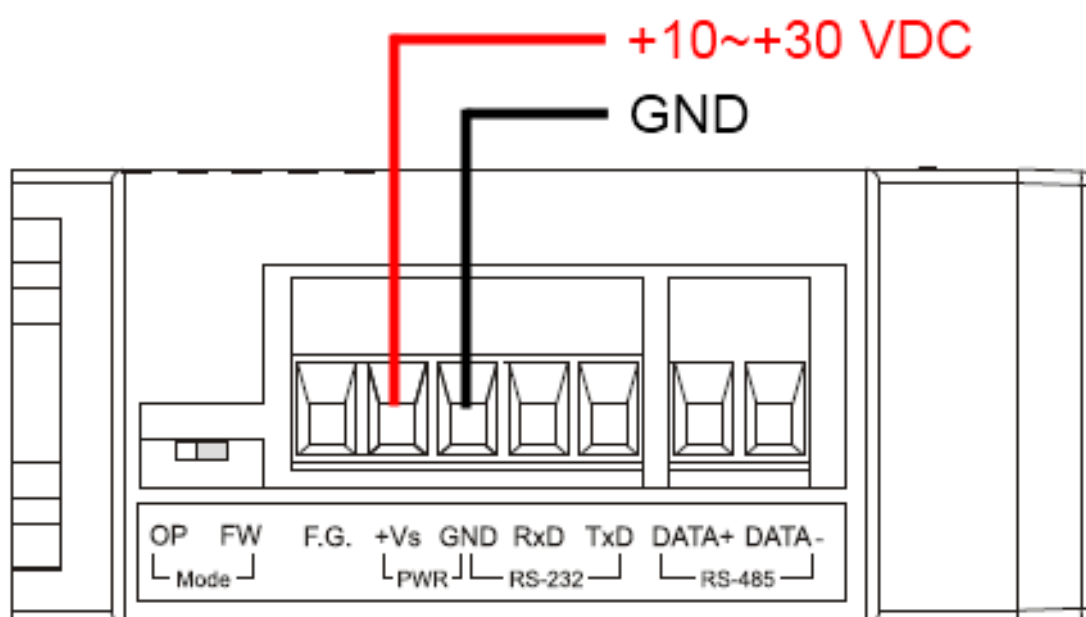
3. Plug in an IR Emitter Cable

Plug the IR emitter cable CA-IR-SH2251(-5) into the 3.5 mm jack of the IR Output 1.

4. Power Wire Connection

Connect the power supply cable (+10 ~ +30 VDC) to the power connector.

5. Install IR Utility

Please get the IR Utility installation file (IR_Util_Setup_v#_#_#_#.zip) from the web page of the product.

6. Serial Communication to the Module

Select "IR-210" in the Module combobox. Select the default communication settings: Baud rate = 115200 bps, Parity = None, Data bits = 8, Stop bits = 1, and Modbus Net ID = 1. Then, click "Connect" button to connect to the IR-210 and open the main window of the utility.
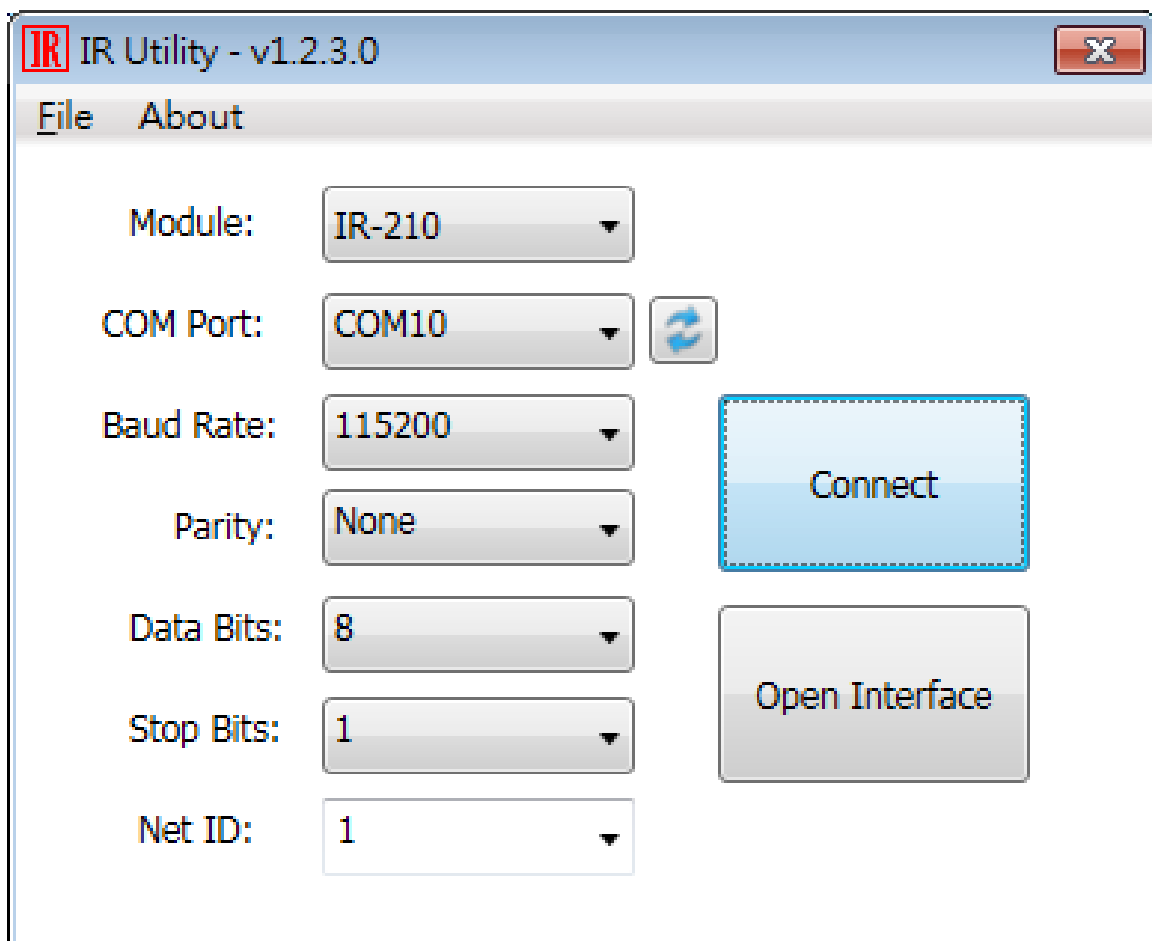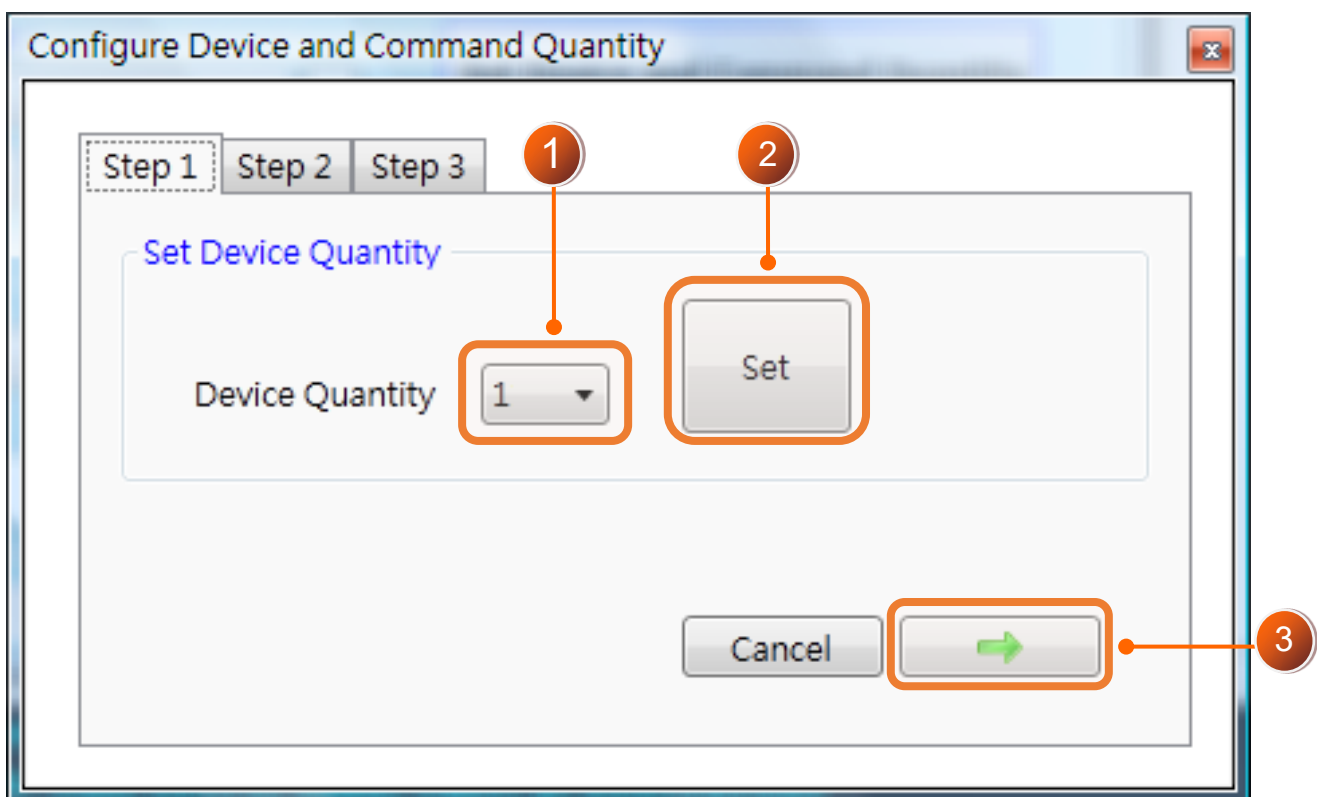
7. Set Device and IR Command Quantity

Please click the "Set Device & IR Command Quantity" button to open the setup window. Three steps to bet set:
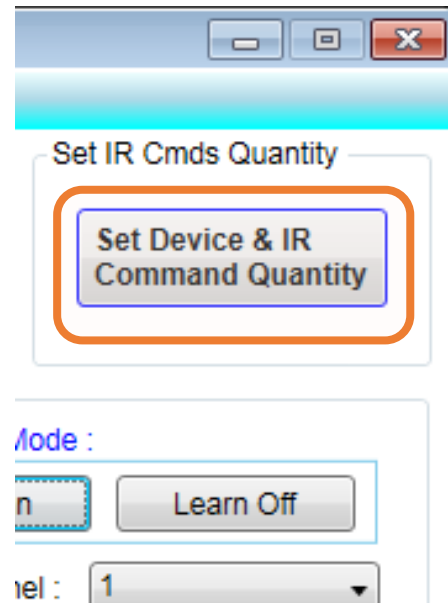
Step 1: Set device quantity.
(1) Set the Device Quantity to be 1.
(2) Press the "Set" button.
(3) Press the Next (right arrow) button.

Step 2: Configure the IR device names and its IR command quantity.

(1) Enter Device Name and IR Command Quantity.
(2) Press the "Set" button.
(3) Press the Next (right arrow) button.

Step 3: Set each IR command name

The prefix number (e.g. 1_Play) is the number of an IR command stored in the IR-210. Click OK button to go back to main window.
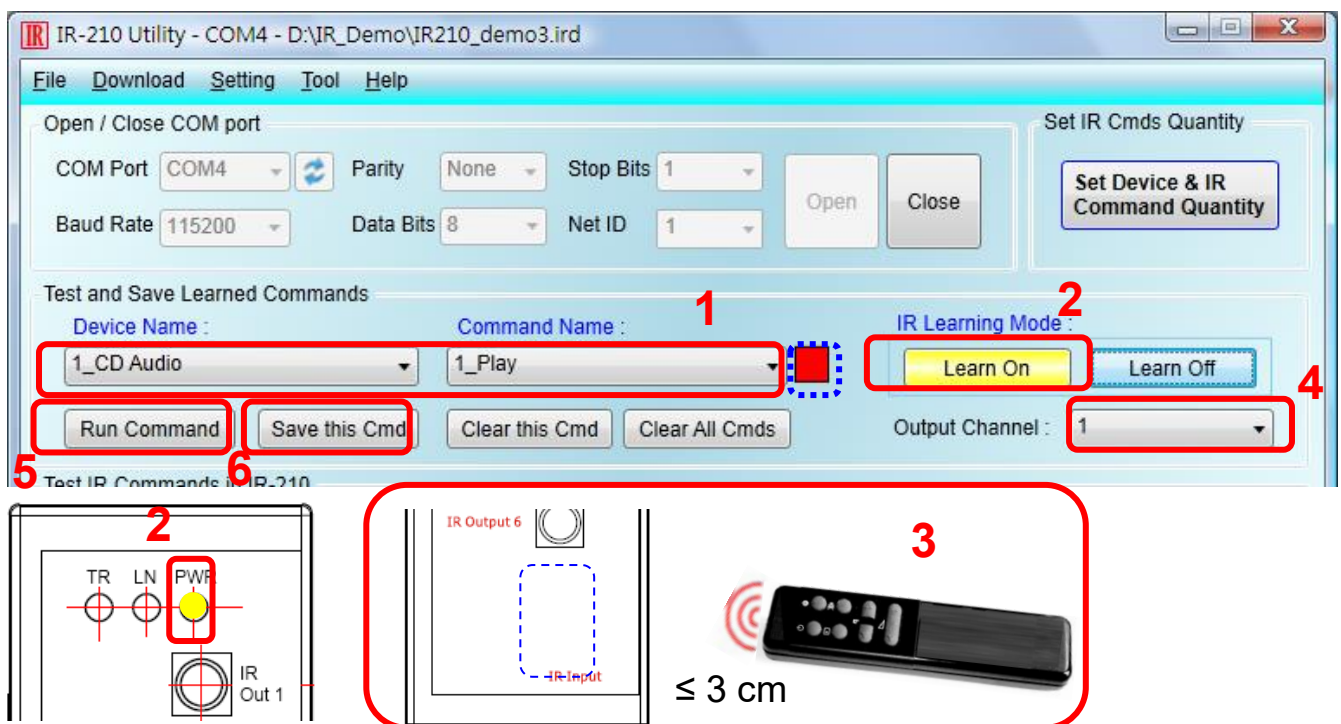
8. Learn IR Commands

In the section **"Test and Save Learned IR Commands"** of the utility:
(1) Select the item in "Device Name" and "Command Name" combobox.
(2) Click "Learn On" button to enable IR learning mode (LN LED is ON).
(3) Aim the emitter head of the remote control (RC) to the "IR Input" of the IR-210 (distance less than 3 cm) and press the remote control button which is to be learned in a short time. After IR learning is finished, the TR/LN LED is OFF.
(4) Select IR Output 1 in the output channel combobox.
(5) Aim the IR emitter, which is plugged in IR Output 1 jack, to the IR receiver of the controlled device. Click "Run Command" button to check the effectiveness of the IR learning command. Repeat (2) and (3) if no action on the device.
(6) Click "Save this Cmd" button.
(7) Repeat the above (1)~(6) to finish IR learning.

Besides, the color rectangle (marked a blue dotted frame) means:
➤ Red: Learning data is saved in the item of "Command Name".
➤ Yellow: Get learning data form IR-210. The data is buffered and lost when selecting other item of "Command Name".
➤ White: No learning data saved in the current item of "Command Name".

9. Download IR Commands to the Module

After IR learning finishes, click Menu [Download]-> [Download IR Commands to IR-210] to download the IR commands to the IR-210.
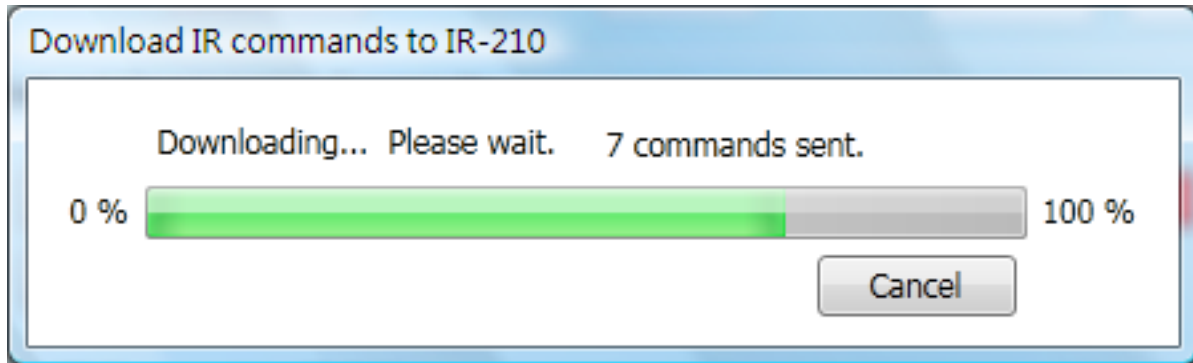
10. Test IR Commands

Go to the "Test IR Commands in IR-210" section:
(1) Select IR Command No.
(2) Select Output Channel to 1. Aim the IR emitter head to the appliance.
(3) Press "Transmit (MBRTU Msg)" button. The appliance reacting means success.