

Overview

Vantage's IR-Learner II is the next generation IR learning device. IR codes can be learned and saved using *Driver Designer* software. IR codes are downloaded to the Vantage IRX II or TheatrePoint infrared emitter stations. Virtually any device controlled through IR may be learned by the IR Learner II and subsequently controlled by Vantage.

This next generation IR Learning device is built on decades of IR Learning experience, making it, by far, the most powerful IR Learner available.

Learning IR codes is easy and fast using the IR Learner II and *Driver Designer* software.

Features

- USB connection to computer
- Learns IR codes with Pinpoint accuracy
- Supports a broader range of remotes
 - Supports variable modulation frequencies
 - Supports high modulation frequencies
 - Supports non-modulation frequencies
- Capable of learning any type of modulation scheme
- Transmits Code for testing
- No battery required

Specifications

Description	Specification	
Model	IR-LEARNER II	
Dimensions, HWD	5.2" x 3.3" x 1.2" 132mm x 84mm x 30mm	
Weight	5.6oz / 159g	
4 - LED Indicators	IR Activity	Learn
	<ul style="list-style-type: none"> • Transmit • Power 	<ul style="list-style-type: none"> • Finished • Ready
Reset Button	Reset IR LEARNER II	
Power	USB (no batteries required)	
Carrier Frequency	Maximum 1 MHz	
Data Rate	Maximum 1 Mbit per second	
Sample Length	1 second with high carrier frequencies 10 seconds with typical carrier frequencies	
IR Format	Vantage FRESH	
Interface	USB	
Finish	Black	
Ambient Operating Temperature	32-95°F -or- 0-35°C	
Ambient Operating Humidity	5-95% non-condensing	

Software

Installation or use of Vantage products should be performed or supervised by a *Certified Vantage Installer*. Use the IR LEARNER II with InFusion Driver Tools: *Driver Designer*.

Hardware

The IR Learner II hardware consists of a receiver box containing advanced, custom electronics. Behind the reddish colored filter is an infrared receiver for learning new IR codes and an infrared transmitter for testing learned IR codes. The other end of the IR Learner II consists of a USB Cable connection and a reset button. LEDs on top indicate current operating status.

The IR Learner II is a *Learning* remote control receiver / transmitter. To begin, attach the IR Learner II to any working USB port on the computer using Driver Tools software. In *Driver Designer*, verify that the *Connection* port is set to USB. Note that the USB port does not show unless the IR-LEARNER

II is physically attached to a USB port on the computer. Click on Help, in *Driver Designer* software, and locate Control Codes for additional help.

Driver Designer, How to Learn a Command

Setup:

To Learn a command, set the remote 2-6 inches away from the lens of the IR Learner II. Some Fluorescent lights may interfere with the learning process, e.g. CCFL. If this condition is suspected, find a location where strong outside light and fluorescent lights are not a factor.

1. Create a new IR Driver in *Driver Designer*. Fill in all information *Driver Designer* automatically prompts for.
2. Double Click on Control Codes and begin learning codes, e.g. POWER ON, POWER OFF, etc.
3. With the code highlighted in Control Codes, click on Connection and select the USB for the IR Learner II.
4. Click the connect icon  next to the Connection port in *Driver Designer*. Once connected the icon changes to .
5. Click on the Learn icon to place the IR-LEARNER II in learn mode .
6. InFusion *Driver Designer* displays prompts on the screen directly below the title bar of Control Codes. When the Learn icon is first pressed the selected code prompt displays:



Press and hold the remote control button for about 1-second or less, do not hold it too long.

7. Follow the prompts on the screen in *Driver Designer* for each code. Watch the prompts on the screen and the status LEDs on the IR Learner II to keep pace with software and hardware and to make sure the codes are learned properly.
8. *Driver Designer* will typically prompt four times for the first code and two times thereafter to verify that the code was learned correctly. (Please see *A-B IR Codes* below)
9. Always watch and follow the instructions given from these prompts.
10. Assign each learned Control Code to a Design Center Procedure by clicking on the Design Center Procedure drop down arrow and picking the most logical procedure from the list.

NOTE: Occasionally a matching Design Center Procedure may not be available. Codes without a Design Center Procedure will be categorized as Unassigned Codes in InFusion *Driver Designer*. To use Unassigned Codes in Design Center Select *Communication | Generic IR | Send IR Code*. Unassigned Codes programming is not dynamically updated in Design Center if the equipment is replaced with a different model. Always try to find a suitable Design Center Procedure for each code.

11. Using the IR Learner II, to test the code: Point the IR Learner II towards the equipment it will be controlling and press the Test icon . The equipment should respond with the appropriate function.

NOTE: It is also possible to test the code from Design Center once the code has been downloaded to an IRX II or a TheatrePoint.

A-B IR Codes

Some devices use A-B, IR Codes. This type of IR code set has two IR Codes for every function. The remote simply switches between the A and B code with every other press/release. *Driver Designer* and the IR-LEARNERII will not have any problem learning both code sets. A device that uses an A-B code set will take a little longer to learn during the learning code process. This is normal because both codes are learned for each command. However, it is not necessary to duplicate the commands to be learned in the design, when learning an A-B code set, because *Driver Designer* does this automatically during the learning process.

The sequence for learning A-B IR Codes is as follows:

With *Driver Designer* in the IR Learning mode as outlined above -

1. Press the first button to be learned
2. Driver Designer will prompt to learn this first code four times. By seeing the code four times Driver Designer is able to determine if the remote is sending A-B codes.
3. First code is learned - both A and B commands
4. Design Center automatically moves to the next code in the design

5. Press the button to learn this code
6. Driver designer will automatically prompt to learn this four times before moving on to the next code
7. Keep following this sequence until all of the codes have been learned
8. Follow the applicable steps in the *Driver Designer, How to Learn a Command* section above to the completion of the new driver

NOTE: In Rare instances, an A-B code set may not have two codes for every command on the remote.

Saving Learned Codes

After learning the needed commands be sure to save the driver when exiting *Drive Designer* and periodically as work progresses. It is highly recommended to have a "live" internet connection when working with *Driver Designer*. If an internet connection is not available at the time the code set is being created/learned and saved, the next time *Driver Designer* is opened with the internet available, the new IR Driver will be uploaded to the Vantage *Online Driver Library*.

Related Products

- [IRX-II](#) - Install Sheet
- [Rack Mount IRX II-RACK](#) - Install Sheet
- [Wall Mount IRX II-WALL](#) - Install Sheet
- [POWERED OPTO-ISOLATED EMITTER](#) - Install Sheet
- [QUAD-SENSOR](#) - Install Sheet

IR-LEARNERII

