CYP CR-IRLIR Remote Control Code Learner Instruction Manual

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CYP CR-IRLIR Remote Control Code Learner

Specifications

- Product Name: CR-IRL IR Remote Control Code Learner
- Version: v1.00
- Date: 19/08/2019

Product Usage Instructions

Operation Controls and Functions
Hardware Description

1. **IR Blaster:** Transmits the digital IR signal from PC/Laptop to confirm successful learning. Ensure direct line-of-sight within 10m.
2. **IR Receiver:** Receives the IR signal to be] learned. Ensure direct line-of-sight with the remote control.
3. **Update:** Press this button while plugging into PC/Laptop for firmware update. Copy the .bin file to your PC/Laptop for later use.
4. **USB IN:** Connect this port to PC/Laptop for IR signal transferring into data format.

Software Application and Installation

1. **Installation:** Download the ZIP file from the ‘Downloads’ tab on the IR Learner product page on the CYP website. Save it in an easily accessible directory. Decompress the file by right-clicking and choosing the ‘expand’ option.
2. **Update Driver Software:** Connect the IR Learner to PC/Laptop and search for it in the Device Manager. Click on USB Virtual COM, select Update Driver Software, browse for driver software, and direct to the downloaded software location. Install the driver software despite any Windows Security warnings.
3. **Finish Installation:** Close the dialogue to complete the installation process.

FAQ
Q: What should I do if the IR Blaster is not working?
A: Ensure that the IR Transmitter is in direct line-of-sight within 10m of the equipment to be controlled.

DISCLAIMERS

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Version 1.1

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.
Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE	SUMMARY OF CHANGE
v1.00	19/08/2019	First Release

INTRODUCTION

The Infrared Learner is a versatile tool for all your control system design needs. This compact yet functional unit can convert your analogue IR commands into digital data and store it for many uses. With the simple software tool the user can store the commands from multiple IR remote controls in a single convenient location such as a laptop for later recall as required. The unit not only learns the IR command but it can also test that the learning was

successful by re-transmitting the command to prove that it has been learned correctly. It is compatible with a wide range of IR frequencies and source devices.

APPLICATIONS

- Analogue IR signal learning
- IR signal transfer into digital data
- IR signal blasting

PACKAGE CONTENTS

- IR Learner
- Operation Manual

SYSTEM REQUIREMENTS

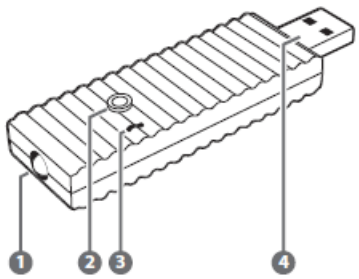
- Input remote control with IR signal and output to PC/Laptop.

FEATURES

- Receives and transmit an IR command to confirm successful learning
- Converts an IR signal into digital data for control system usage
- Compatible with a wide range of IR format and IR frequencies
- Compact USB dongle design
- Simple software installation

OPERATION CONTROLS AND FUNCTIONS

Hardware Description

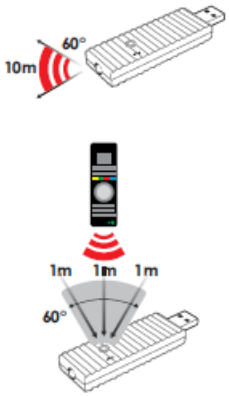


1. IR Blaster
   Transmits the digital IR signal sent from PC/Laptop to confirm that learning of the received IR signal has been successful. Ensure that the IR Transmitter is in direct line-of-sight of the equipment to be controlled.
2. IR Receiver
   Receives the IR signal to be learnt. Ensure that the remote control being used is in direct line-of-sight of the IR Receiver.
3. Update
   Press this button with pin and hold it while plug into PC/Laptop for firmware update. Copy the .bin file to your

PC/Laptop in a location where you may use later.

4. USB IN

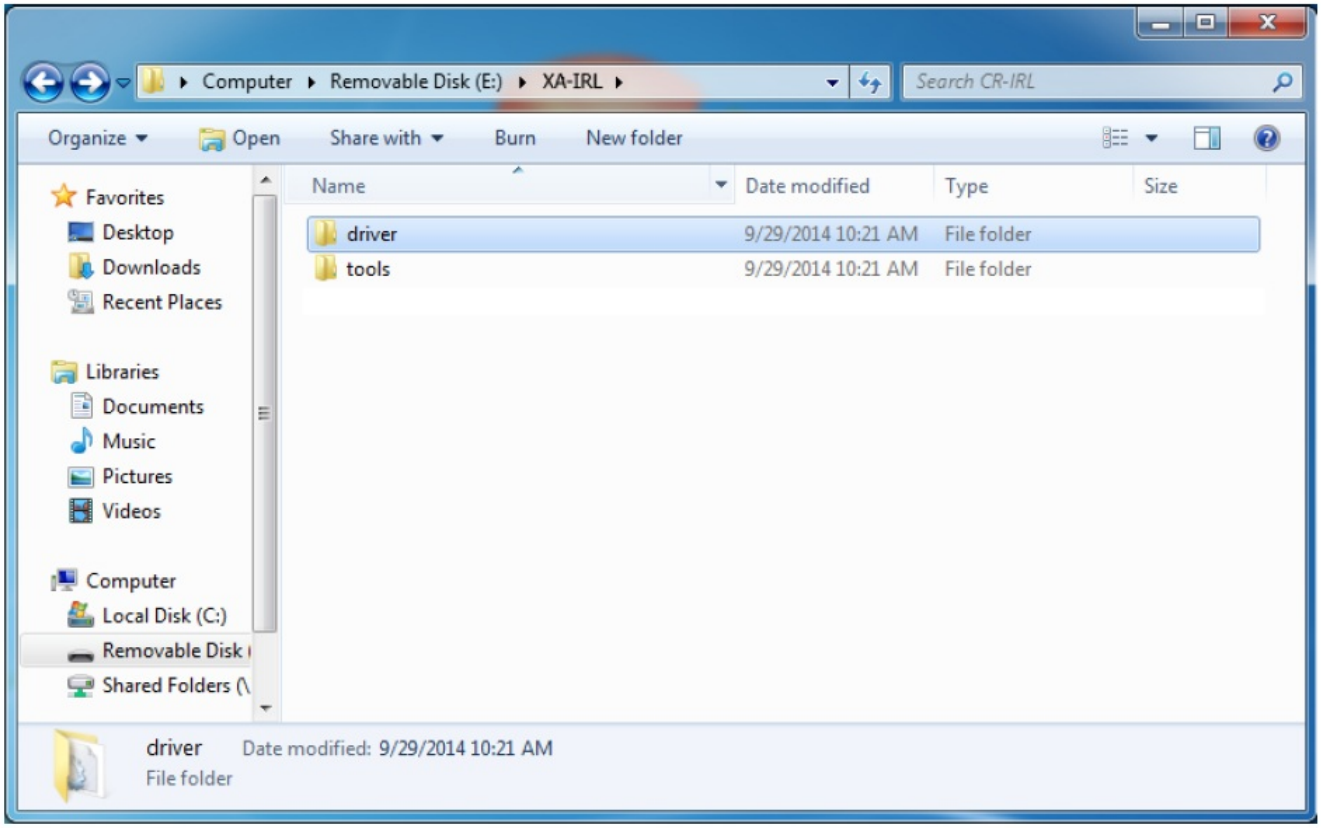
   Connect this port with PC/Laptop for IR signal transferring into data format.



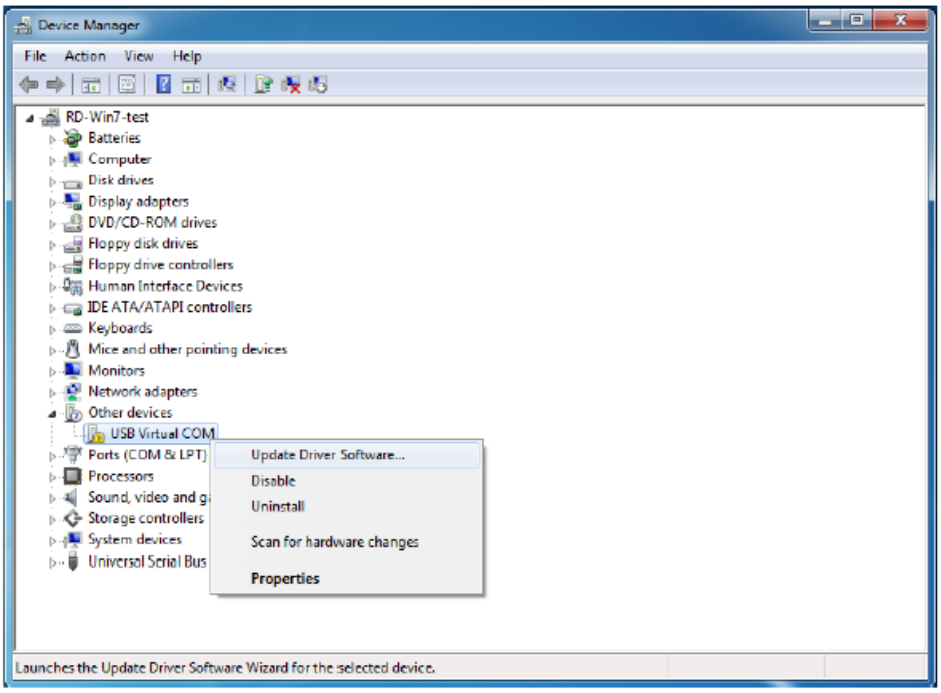
Software Application and Installation

Installation

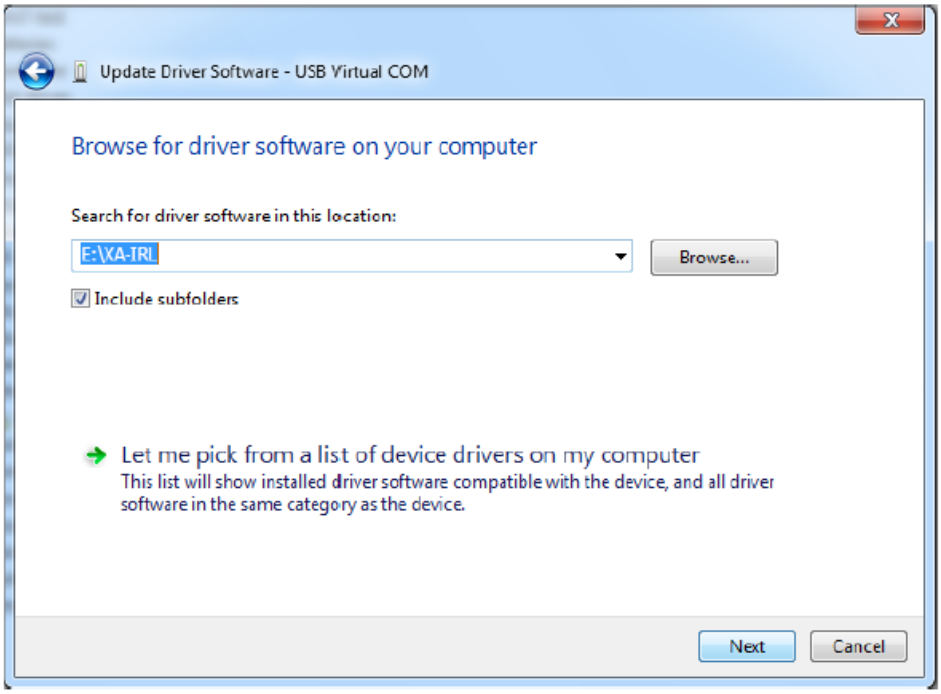
Please download the ZIP file from the ‘Downloads’ tab on the IR Learner product page on the CYP website and save it in a directory where you can easily find it again. Once saved, locate the file on your computer and de-compress by right clicking it and choosing the ‘expand’ option.



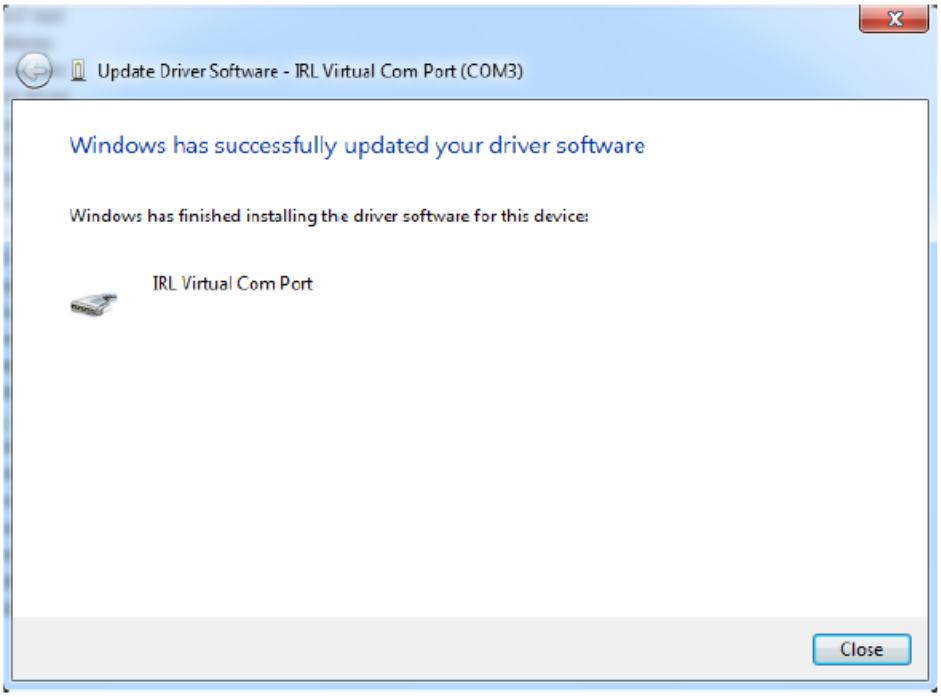
- Connect the IR Learner to PC/Laptop and search it from the Device Manager.



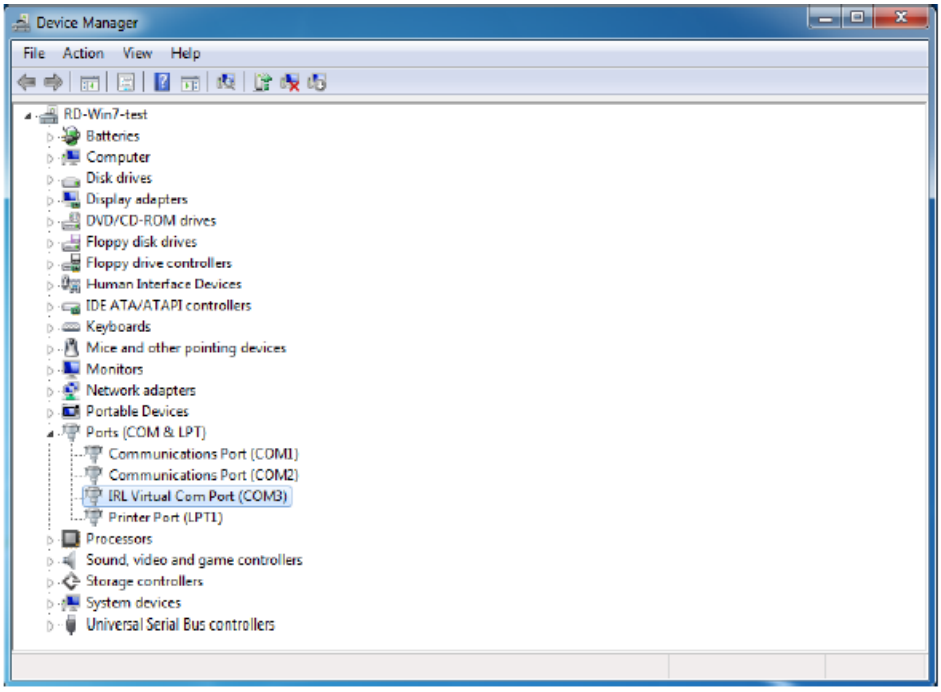
- Click on USB Virtual COM with mouse's right button and select Update Driver Software…



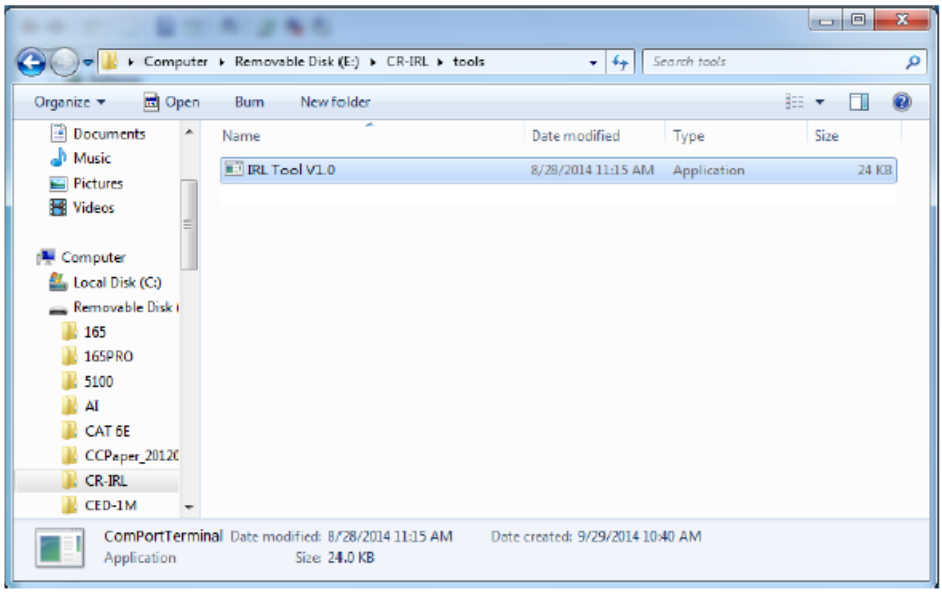
- Click on Browse for driver software and direct the downloaded software location.
- Windows Security will show warning message, click on Install anyway to continue the installation process.



- Close the dialogue to finish the installation.



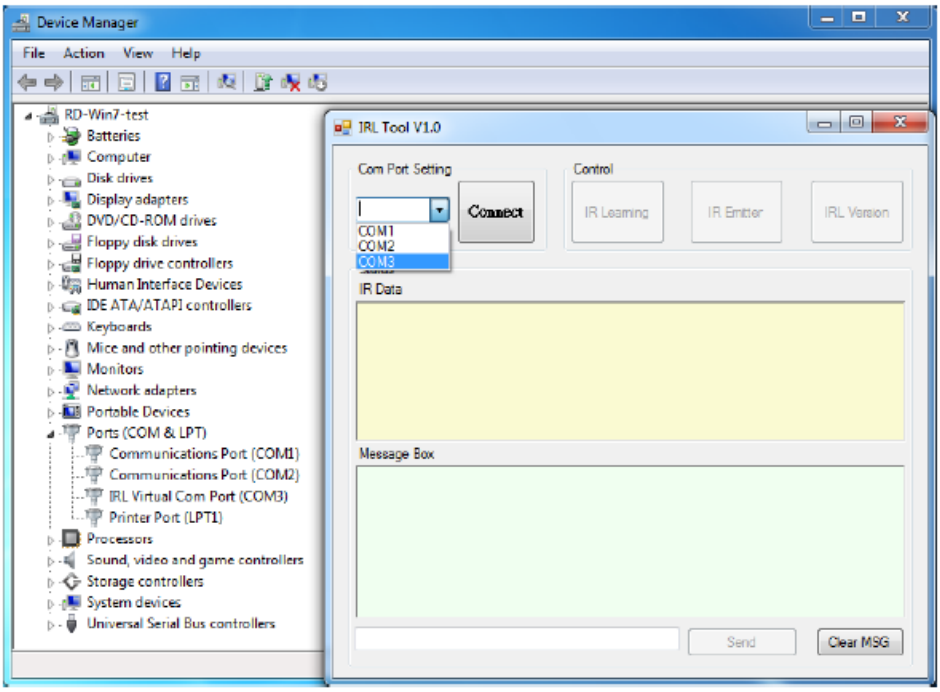
- Now the IR Learner will be renamed as IRL Virtual Com Port in the Device Manager.



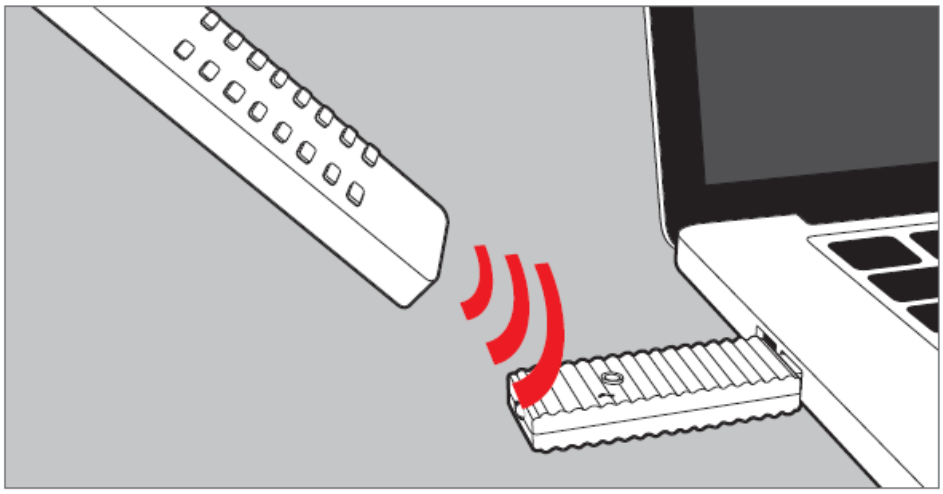
Using the IR Learner Application

Now your PC/Laptop has install successful the IR Learner and you may start to use with the IR learner with IR Learning Tool by opening the IRL Tool from the download file

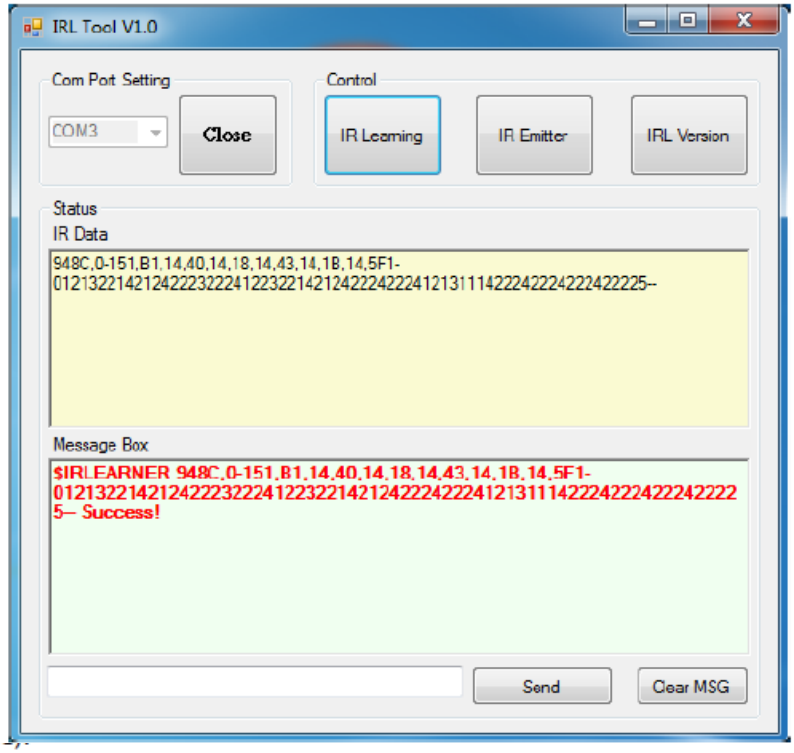
- Double click on IRL Tool

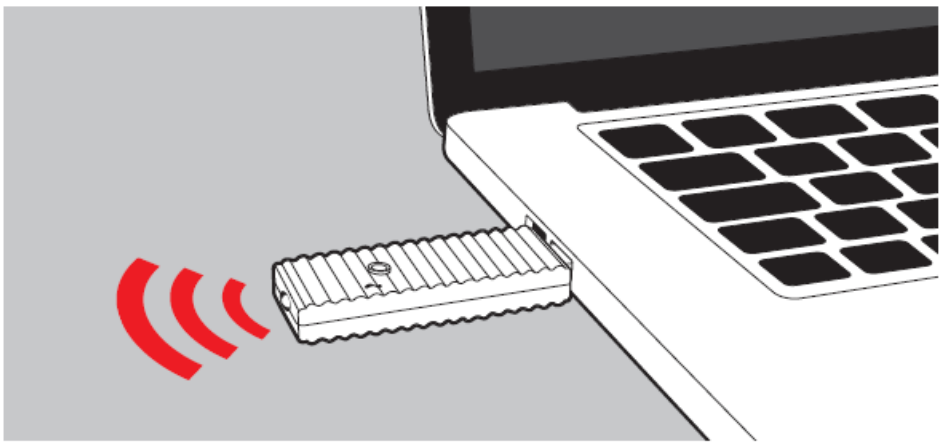


- Select the Com Port according to IRL Virtual Com Port from the Device Manager and click on Connect.
- To start IR signal learning, click on IR Learning and press the remote control with the direct line-of-sight towards the IR Learner's Receiver lens until the IR code has been learned and show Success from the IRL Tool.

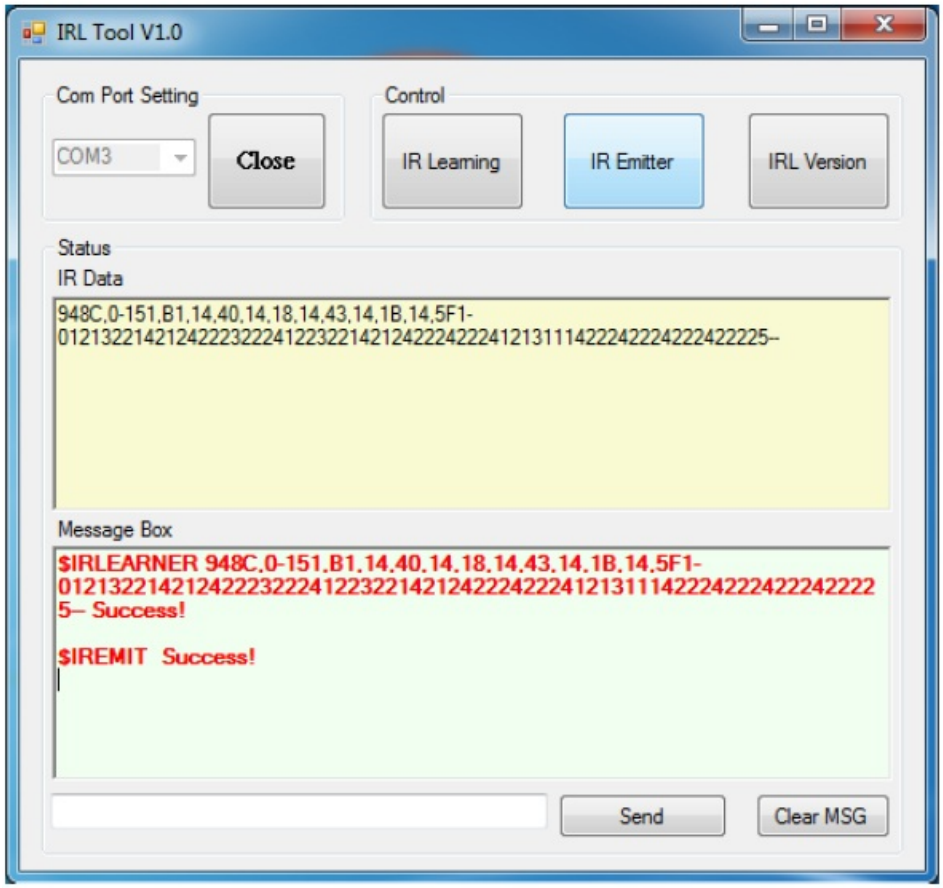


- Then click on IR Emitter with IR Learner's Blaster in direct line-of-sight towards the remote device to confirm if the learning is correct (or activate).

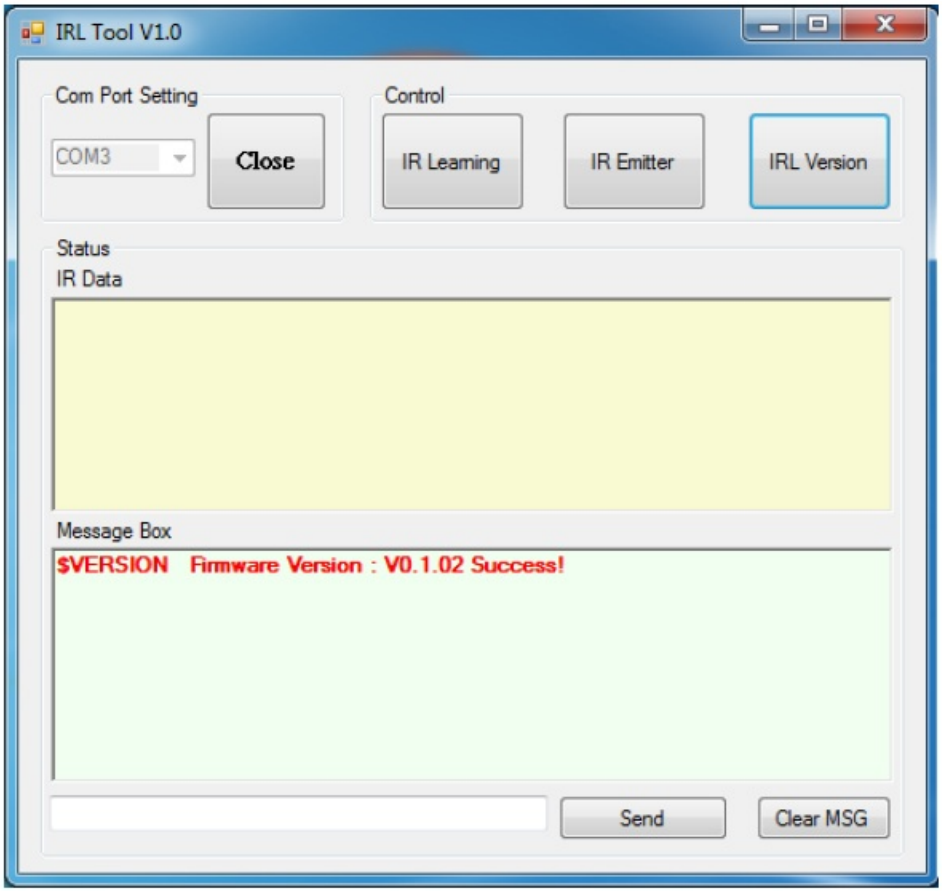




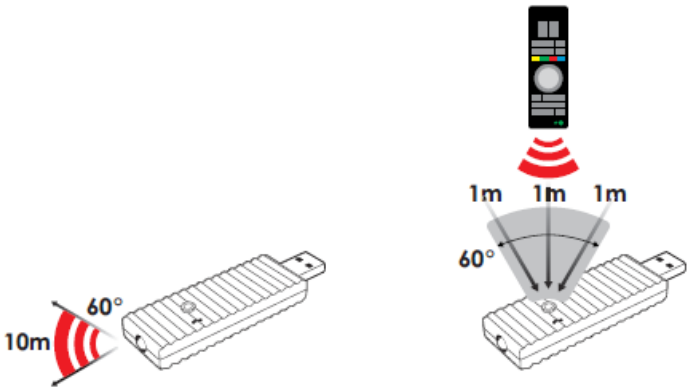
- This IR code/data then may be stored in another control system/application for future usage or may be utilised in many other forms. (Copy the IR code from IR Data box).



- Click on IRL Version to see the IRL Tool's version update status.
- Type $HELP to list all the IRL commands and use the command through RS-232 to control the IR Learning Tool. To clear the message in message box simply click on Clear MSG.



CONNECTION DIAGRAM



SPECIFICATIONS

- Input Port 1 x IR
- Output port 1 x IR 1 x USB
- IR Frequency 20~60kHz
- IR Input Signal
- Distance Up to 1m
- IR Blaster Out Distance Up to 10m
- ESD Protection Human Body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
- Dimensions 70.5mm (W) x 25mm (D) x 11mm (H)/Jacks
- Excluded 85.5mm (W) x 25mm (D) x 12mm (H)/Jacks Included
- Weight 14g Chassis Material Plastic
- Silkscreen Color Black Operating
- Temperature 0˚C~40˚C / 32˚F ~ 104˚F
- Storage temperature -20˚C~60˚C / -4˚F ~ 140˚F
- Relative Humidity 20~90% RH (no condensation)

ACRONYMS

ACRONYM	COMPLETE TERM
IR	Infrared
PC	Personal Computer
USB	Universal Serial Bus

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v1.00

Documents / Resources

	CYP CR-IRLIR Remote Control Code Learner [pdf] Instruction Manual CR-IRLIR Remote Control Code Learner, CR-IRLIR, Remote Control Code Learner, Control Code Learner, Code Learner, Learner

References

- User Manual