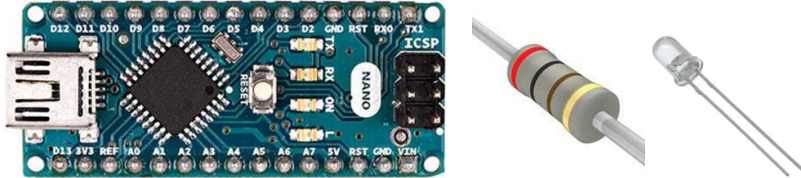
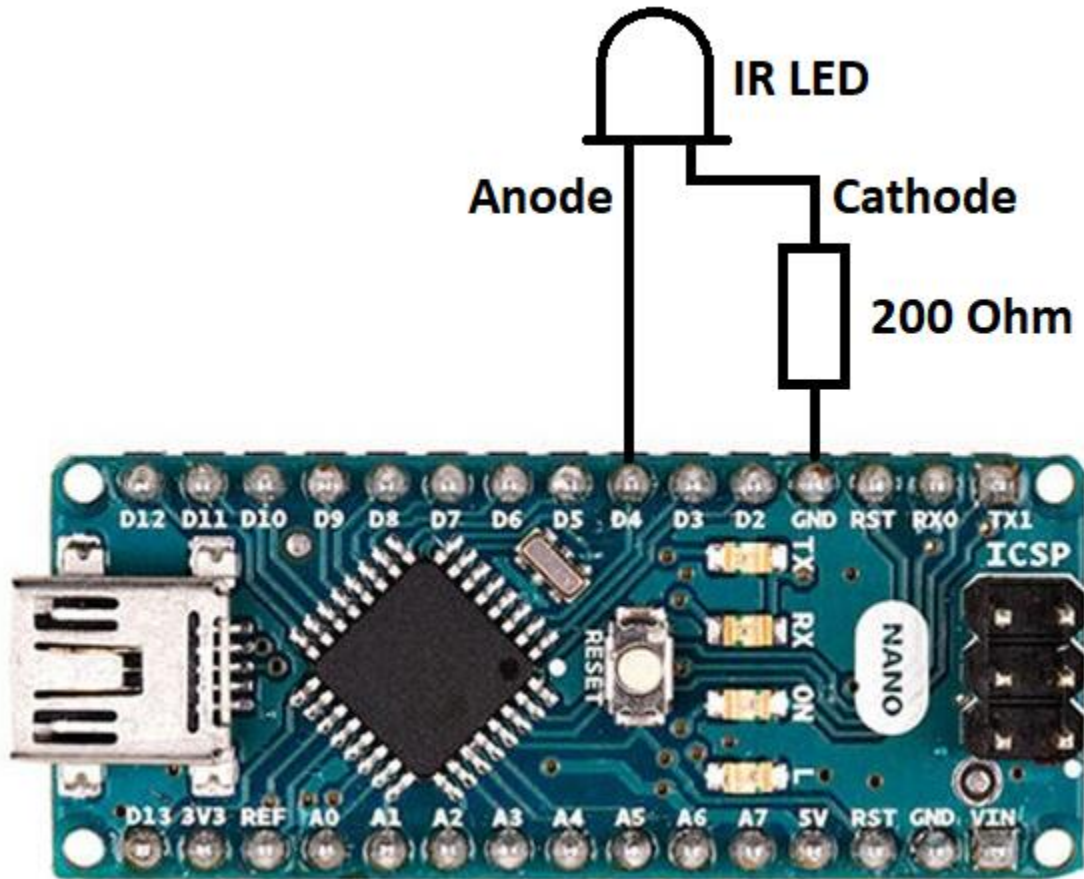


Arduino LIRC PC Tools User Guide

Using **Arduino LIRC PC Tools** you can build Remote Controls for various devices as TV / Video Systems / Decoders and so on within minutes, and using very cheap and simple hardware, to control these devices from your PC. You can use all devices that are supported by LIRC Project. List of all these devices you can find [here](#). **Please remember THERE IS NO GUARANTEE THAT EVERY REMOTE CONTROL WILL WORK.** The hardware, that you will need to make yourself, contains only 3 parts: Arduino Nano Board, 200 Ohm resistor and IR Led.



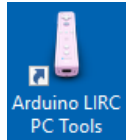
The full circuit you can see below.



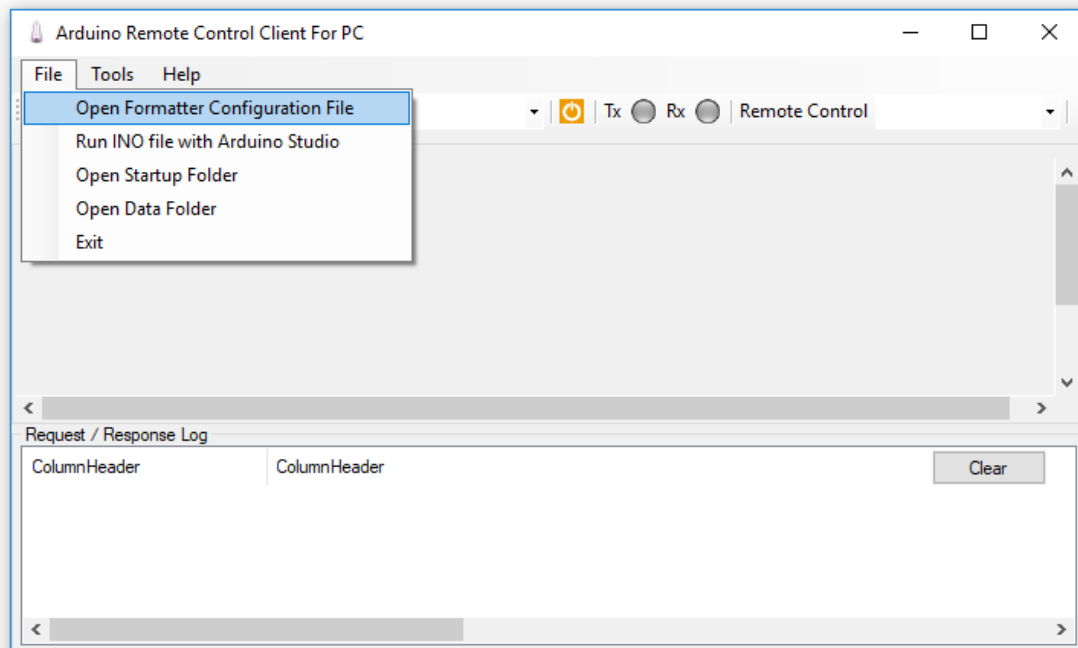
When the hardware is ready, you have to perform the following steps:

1. Download the desired Remote Control file from [LIRC Database](#).
2. Get picture or photo of your remote control.

3. Now you have to convert the Remote Control file above to:
RCRemote<RC Name>.xml file (It contains information about the Remote Control).
RCRemote<RC Name>.h file (You can use it in various projects).
ArduinoLIRC.ino file (You will need to upload it to Arduino Nano board in [Arduino Studio](#)).
In order to do so you have:

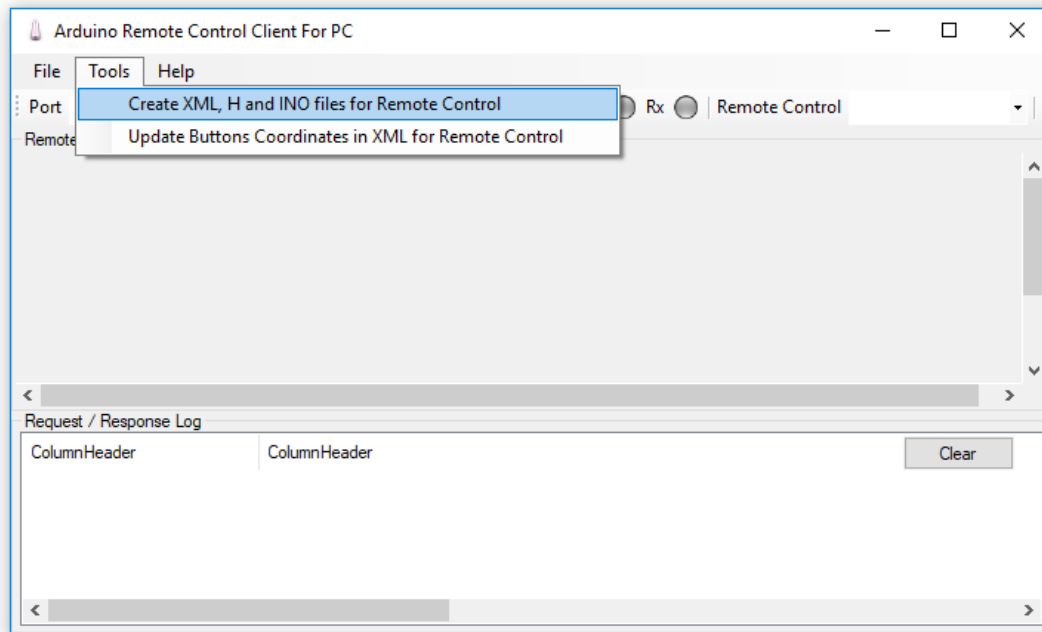



1. Run **Arduino LIRC PC Tools**.
2. Configure formatter if needed (**File / Open Formatter Configuration File**).

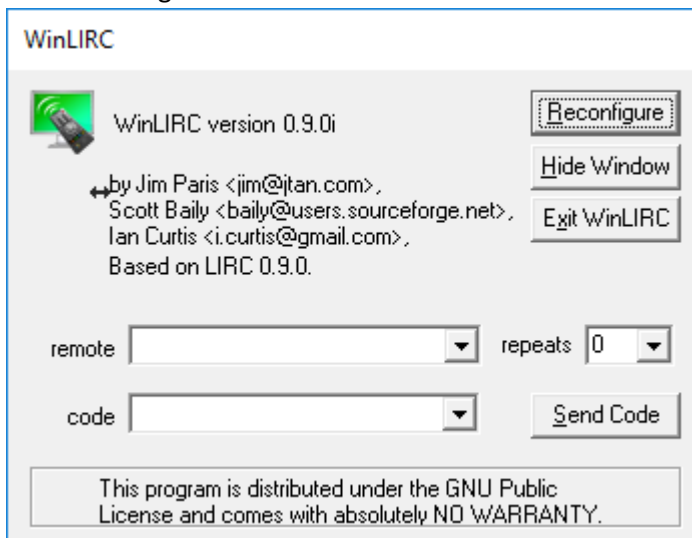


You will need translate unreadable (by C / C++) key names to readable ones.
For example: ?,QUESTION
So key name: "?" will be replaced by the word "QUESTION"

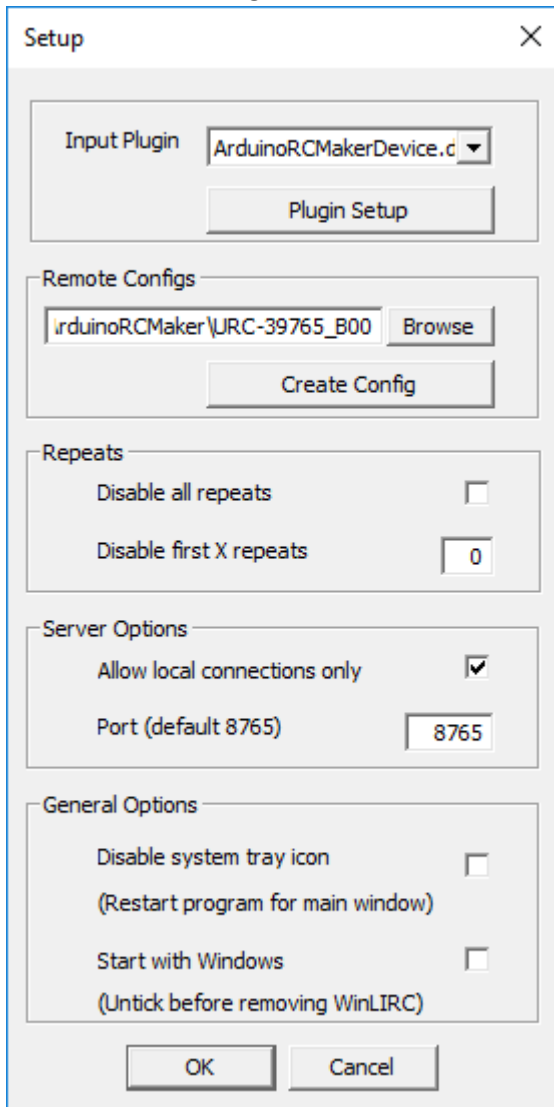
3. Run winlirc.exe (**Tools / Create XML, H and INO files for Remote Control**).



4. Right Click on this icon in tray menu .
5. Click Toggle Window.
6. Click Reconfigure



7. **Select (and Click on it) Input Plugin: ArduinoRCMakerDevice.dll.**
Select Remote Configs: [Desired Remote Control File from WinLIRC.](#)

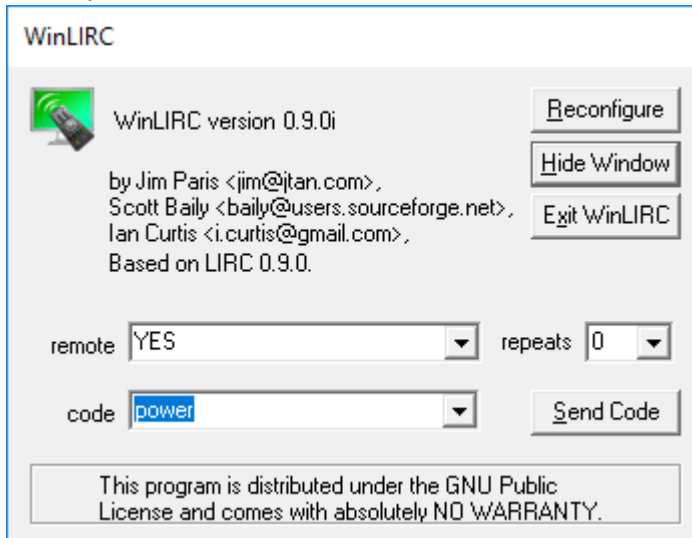


The image shows a Windows-style dialog box titled "Setup" with a close button (X) in the top right corner. The dialog is organized into several sections:

- Input Plugin:** A dropdown menu is set to "ArduinoRCMakerDevice.d". Below it is a "Plugin Setup" button.
- Remote Configs:** A text input field contains "irduinoRCMaker\JRC-39765_B00". To its right is a "Browse" button. Below these is a "Create Config" button.
- Repeats:** Two options are listed:
 - "Disable all repeats" with an unchecked checkbox.
 - "Disable first X repeats" with a text input field containing "0".
- Server Options:** Two options are listed:
 - "Allow local connections only" with a checked checkbox.
 - "Port (default 8765)" with a text input field containing "8765".
- General Options:** Two options are listed:
 - "Disable system tray icon (Restart program for main window)" with an unchecked checkbox.
 - "Start with Windows (Untick before removing WinLIRC)" with an unchecked checkbox.

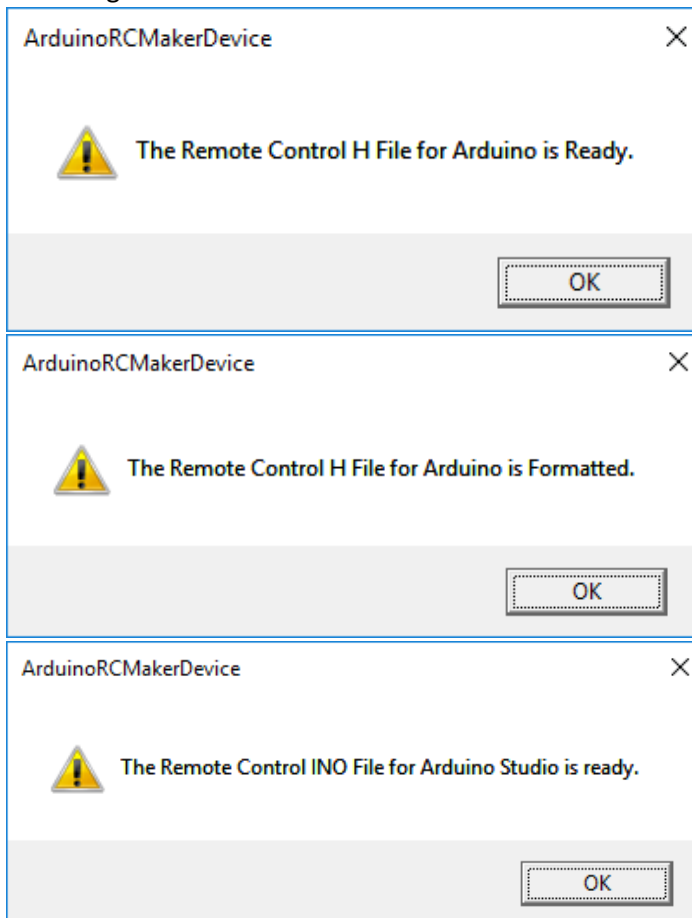
At the bottom of the dialog are two buttons: "OK" and "Cancel".

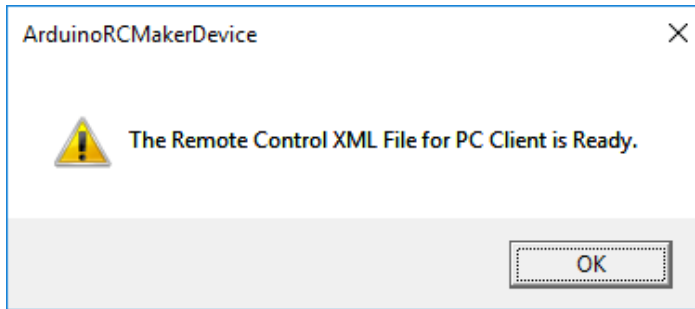
8. Select your Remote Control and Its first button.




9. Click **Send Code**.




10. You will get:





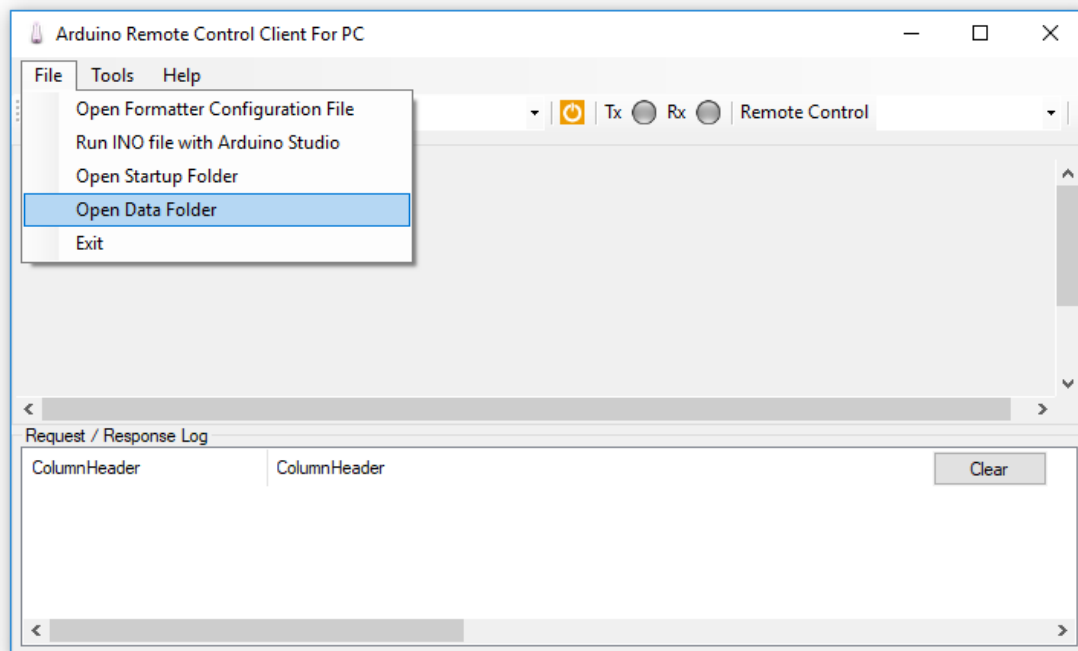
11. Right Click on this icon in tray menu  and **Exit WinLIRC**.

12. Now you have 3 files:

-  ArduinoLIRC.ino
-  RCRemoteYES.h
-  RCRemoteYES.xml

13. Now you have to put there the image of the Remote Control, you have prepared.

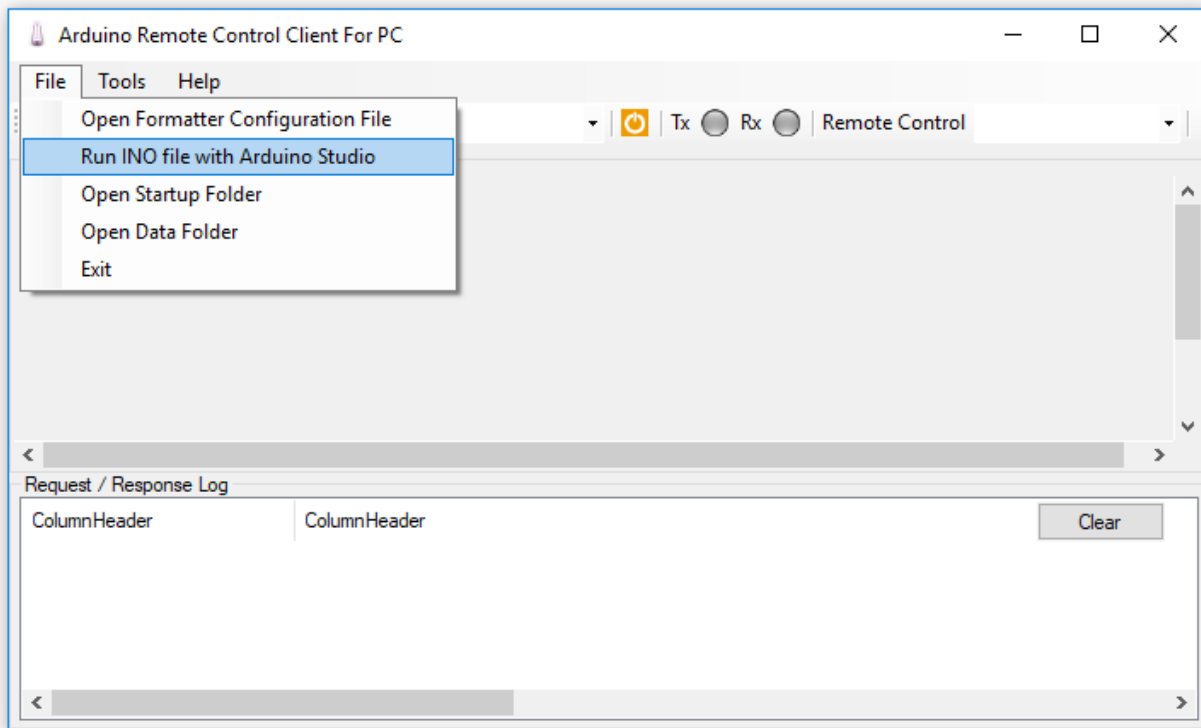
Open Data Folder (**File / Open Data Folder**)



14. Put Remote Control image file RCRemote<**RC Name**>.png to the Data Folder.

For **YES** Remote Control the file is RCRemoteYES.png

4. Run `ArduinoLIRC.ino` file with [Arduino Studio](#).

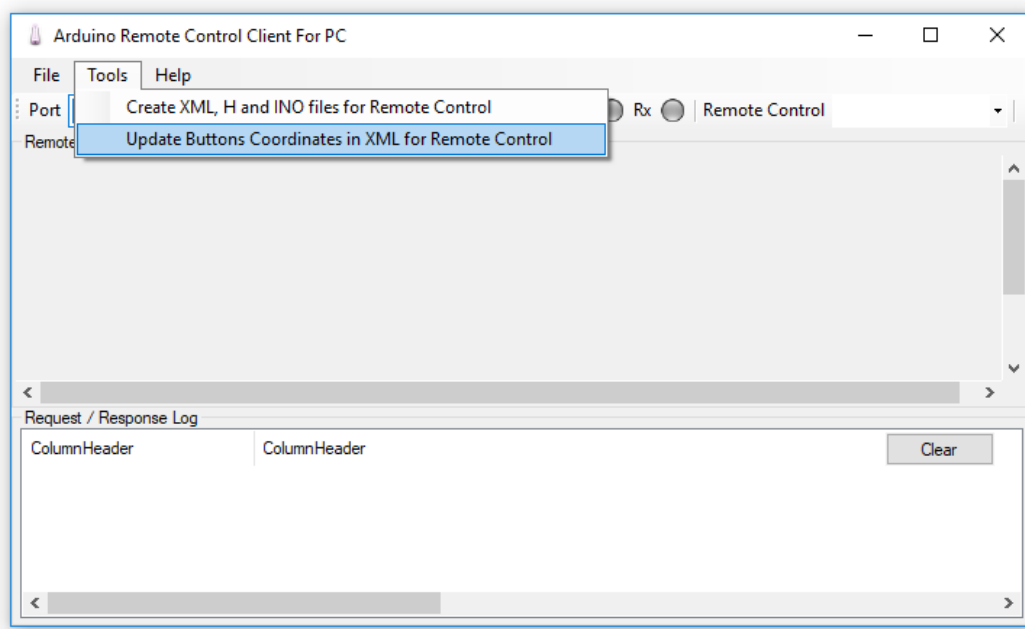



Remember: Arduino Studio must be installed!

5. Upload it to Arduino Nano development board.

6. Run Editor to assign Remote Control Keys to their areas on Remote Control image.

1. Run: **ArduinoRCClientForPCCalibrate.exe (Tools / Update Buttons Coordinates in XML for Remote Control)**

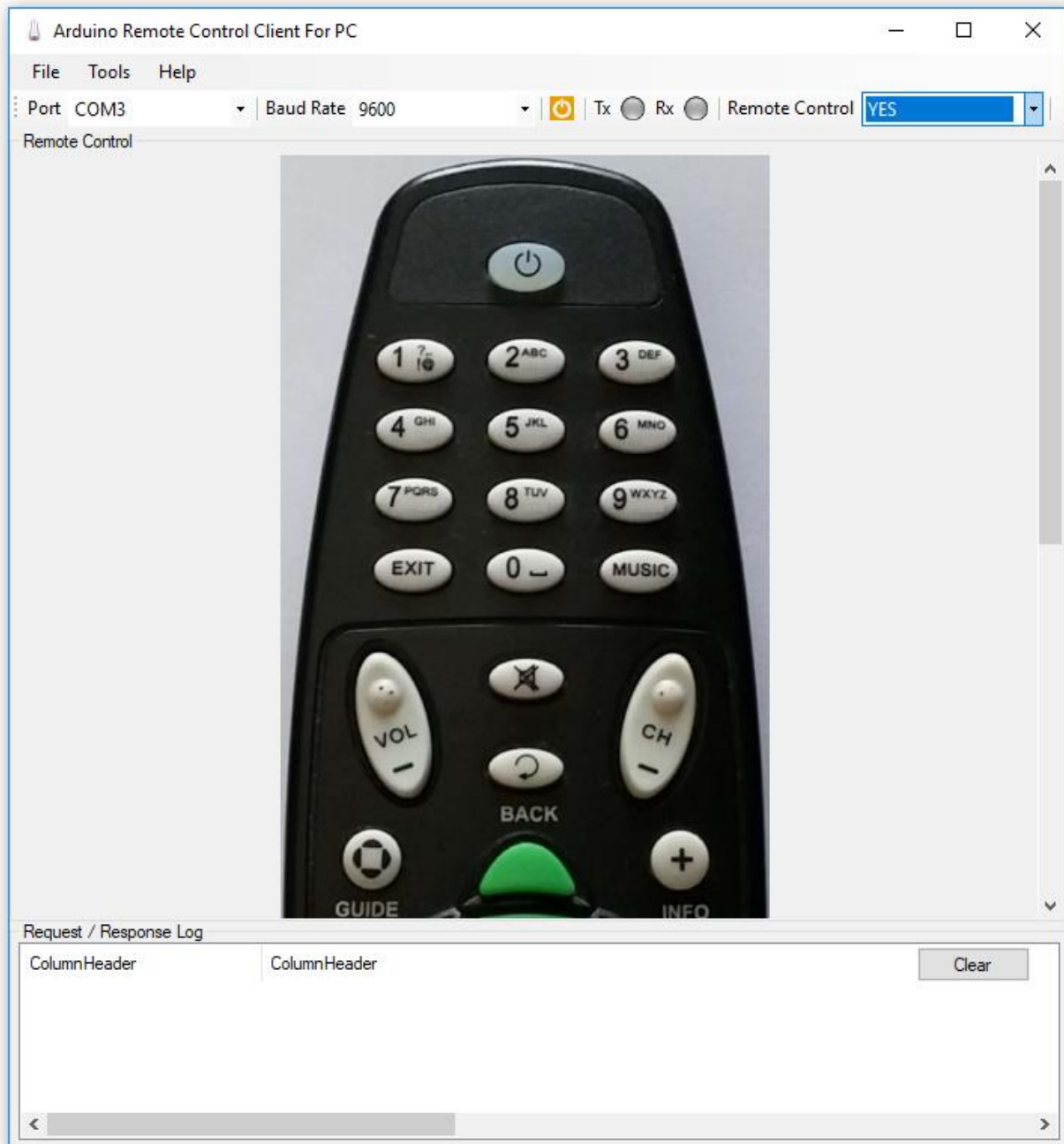


2. If Apps Window is hidden, click on  icon in the tray menu.
3. Select Remote Control and Key and put Rectangle over it.



4. Do this for all Keys and click **Save** button.

7. Now you can connect to your Arduino Board (connected to USB) via Serial Port (COMx).



8. Select your remote in combo and click on keys.