

# HamClock on Raspberry Pi

Building a HamClock on a Raspberry Pi  
With References to Other Builds too!

# First Steps

- You will build a Raspberry Pi “Image”
  - This is a pre-done Operating System that you choose from many Options
  - You will use a tool to “burn” the image to an SD Card
  - I will be using Raspberry Pi Imager
    - Other Options
      - Etcher
      - Win32DiskImager



# Select the OS Version to Burn

- Unless told otherwise, use the latest version for your board
- Pick your Board for specific versions
- This should run on any version 3 or higher Pi model
- We will pick Raspberry Pi 3
- Legacy Raspberry Pi OS, 32 bit





# DANGER - DANGER

- Be VERY CAREFUL on this next step
- Not Responsible for ERRORS!
- You Must Make sure you pick the right Storage or you can erase an entire hard drive, and you can't recover from this.











# Now We Wait

- Time to burn is dependent on the Board and OS chosen
- 5-15 minutes based on computer speed
- We'll let this run, but will move forward with a pre-done image

# Start Up the Raspberry Pi

- Insert the SD Card into the raspberry pi
- Fingers face down, looking at rPi from Bottom
- Hook up a monitor, keyboard and mouse
- Plug in a power adapter
- Wait for the machine to boot
- Open a terminal session

# Now we load the HamClock Software

- `cd`
- `curl -O`  
<http://www.clearskyinstitute.com/ham/HamClock/install-hc-rpi>
- `chmod u+x install-hc-rpi`
- Now we install:
  - `./install-hc-rpi`
- Answer the prompts as they come across (Y/n enter)

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# Finish and Run HamClock

- Hamclock can be run from the command line in the terminal, or from the desktop icon
  - Hamclock &
  - Icon on desktop
- You can set it to automatically start the program in the settings
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# Customizable

- Many options to change
- Every defined box can be adjusted
- You can reference an .adif file to show contacts on map!
- Change Colors
- Analog or Digital Clocks
- Read the Manual for Full Descriptions

# Other Builds

- There is a version that works on Windows
- Other Versions of Linux
- Inovato has a pre-done linux image

# References

<https://www.clearskyinstitute.com/ham/HamClock/>

<https://dl1gkk.com/ham-clock-raspberry-pi/>

<https://www.youtube.com/watch?v=I3SzCxM4PWk>

<https://w4cae.com/wait-a-hamming-minute-hamclock-and-windows/>

<https://inovato.com/>

Older Versions of OS may have Blanking problem, but a few lines of code clear this up:

<https://forums.radioreference.com/threads/hamclock-rp-3-screen-blanks.465170/>