

# DANTRACKER APRS on a RASPBERRY PI

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Fresh installation for Raspberry PI Mod II

Take a 2Gb sd disk

Install Wheezy as per Rraspberry PI Download

<http://downloads.raspberrypi.org/images/raspbian/2013-02-09-wheezy-raspbian/2013-02-09-wheezy-raspbian.zip>

Install it on the sdcard – and start your raspberry

Follow the onscreen instructions and finish off.

Make sure to change the PI password....

Restart RPI

Run startx

Exit startx

Check xauth & list of user exists

reboot

Log-in as user pi with the –X option

```
✚ ssh pi@10.0.1.13 -X (10.0.1.13 is the ip address of my RPI)
```

Create a directory, let's say /test

```
✚ mkdir -p test
```

```
✚ cd test
```

install some missing packages

```
✚ sudo apt-get install python-serial #serial port for python
```

```
✚ apt-get install libgtk2.0-dev #gtk library
```

```
✚ apt-get install imagemagick #to sort the convert command
```

download tar ball for dantracker here:

```
✚ sudo wget http://drats.com/hg/hgwebdir.cgi/aprs.hg/archive/tip.tar.gz
```

```
✚ tar tip.tar.gz
```

```
✚ cd [ whatever the name of the new directory is), in my case pi@raspberrypi ~/test/aprs-hg-a3242e2068ac $ (I later renames it to something more meaningfull like aprs.
```

```
✚
```

Download and install libfib

```
✚ sudo wget http://pakettiradio.net/downloads/libfap/1.3/libfap-1.3.tar.gz
```

```
✚ tar xvzf libfap-<version>.tar.gz cd libfap-<version> ./configure --prefix=/opt
```

```
✚ make
```

```
✚ sudo make install
```

install iniparser - <http://ndevilla.free.fr/iniparser/>

```
✚ sudo wget http://ndevilla.free.fr/iniparser/iniparser-3.1.tar.gz
```

```
✚ tar iniparser-3.1.tar.gz
```

```
✚ cd iniparser
```

```
✚ make
```

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Change back into the dantracker directory [~/test/aprs-hg-a3242e2068ac](#)

```
✚ cd ..
```

```
✚ $ touch .revision # needed because I did not clone drats
```

move into the iniparser directory

```
✚ $ cd iniparser
```

```
✚ $ sudo cp libiniparser.* /usr/local/lib
```

```
✚ $ sudo ldconfig
```

Change back into the dantracker directory [~/test/aprs-hg-a3242e2068ac](#)

```
✚ cd ..
```

```
✚ cd ..
```

Now execute the compilation

```
✚ make
```

Do the same for the images

```
✚ cd images
```

```
✚ make
```

```
cd ..
```

This is all and if you had no errors, then the test will show that it works.

## **Now the test**

First check for the gps

```
✚ sudo detect_gps.py
```

copy the aprstest.ini file from the samples directory into your aprs directory and rename the call to your own call and change the position to some where near your home.

This will deliver a lot of data for the stress test

Now, run a screen session for the aprs function as follows

```
✚ screen -A -m -d -S aprs ./aprs -d 127.0.0.1
```

aprs is now up and running on your raspberry.

next start ui with the -i option

```
✚ ./ui -i
```

That's it. On my screen it looks as in the youtube movie. Now only two things to do

**1: Change to metric values**

**2. Make it run on the Raspberry out of the composite video output.**

73's

Erik, PA0ESH

<http://youtu.be/HMsYk5gaoNs>