DOWNLOAD & BURN

https://learn.adafruit.com/adafruit-pitft-3-dot-5-touch-screen-for-raspberry-pi/easy-install Download Jessie-based PiTFT 3.5" Resistive Image for Pi 1, Pi 2 and Pi 3 (March 25, 2015) Unzip & use Win32DiskImager (or dd) to burn the iso to 8+ GB Class10 or better sd-card.

default username: **pi**

default password: raspberry

RESIZING THE SYSTEM PARTITION

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*** IMPORTANT ***
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Before doing any installing you need to resize your system partition, because only ~100 MB space is free by default.

sfdisk -d /dev/mmcblk0 > partitions.sfdisk && cat partitions.sfdisk && rm partitions.sfdisk This will show you something like this:

/dev/mmcblk0p1 : start= 8192, size= 122880, Id= c /dev/mmcblk0p2 : start= **131072**, size= 8257536, Id=83

/dev/mmcblk0p3 : start= 0, size= 0, Id= 0 /dev/mmcblk0p4 : start= 0, size= 0, Id= 0

Now you can see the start sector of the 2nd partition is: 131072

And the current last used sector is 8257536 (which is around 4GB)

For the new last sector **12345678** is perfect, because that means 5.8GB for the 2nd partition. (Later you can remove the unwanted builtin applications and shrink the partition)

fdisk /dev/mmcblk0

Command (m for help): **p** Command (m for help): **d**

Partition number (1,2, default 2): 2

Command (m for help): n

Select (default p): **p**

Partition number (2-4, default 2): 2

First sector (2048-31116287, default 2048): 131072

Last sector, +sectors or +size{K,M,G,T,P} (131072-31116287, default 31116287): **12345678**

Command (m for help): w

shutdown -r now

resize2fs /dev/mmcblk0p2 # this is needed after reboot to applying the new part size!

INSTALLING DEPENDENCIES

apt-get update

apt-get dist-upgrade

apt-get autoremove

apt-get install gtk+-2.0

apt-get install pkg-config

apt-get install libgtk2.0-dev

apt-get install imagemagick

apt-get install wkhtmltopdf

apt-get install tcpdump

apt-get install cifs-utils

apt-get install ethtool

apt-get install bc apt-get install speedtest-cli

cd /opt
wget https://gtkdialog.googlecode.com/files/gtkdialog-0.8.3.tar.gz ### or newer version
tar -xvf gtkdialog-0.8.3.tar.gz
cd gtkdialog-0.8.3/
./configure
make
make install

APPEARANCE & USAGE RELATED CHANGES

Menu -> Preferences -> Appearance Settings

Menu Bar Size: Medium System Font size: 10

Menu -> Preferences -> Raspberry Pi Configuration Localisation - as you wish

File Manager (PCManFM on your panel) -> Edit -> Preferences General | Behaviour:

[x] Open files with a single click

Panel -> Panel Preferences -> Advanced [x] Minimise panel when not in use Size when minimised: 1 pixels

DEPLOYING FLUKEBERRY SW

mkdir /data/ cd /data git clone https://github.com/volanszki/Flukeberry.git chown pi:users /data/Flukeberry/ -R chmod 775 /data/Flukeberry/ -R

The following line to /etc/sudoers

User privilege specification pi ALL=(ALL:ALL) ALL

SET AUTOSTART

Add the following line to the end of /home/pi/.config/lxsession/LXDE-pi/autostart

@/data/Flukeberry/flukeberry-gui

SET STATIC IP FOR WIRELESS INTERFACE

In case if you want you use your wireless connection

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Add the following lines to
/etc/network/interfaces
allow-hotplug wlan0
iface wlan0 inet static
    address XXX.XXX.XXX.XXX
    netmask YYY.YYY.YYY.YYY
    gateway ZZZ.ZZZ.ZZZ
    wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
Then you need to customize the following file:
/etc/wpa_supplicant/wpa_supplicant.conf (example below)
country=HU
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1
network={
ssid="some_ssid_you_want_to_connect"
psk="some_cleartest_pass"
proto=WPA
key_mgmt=WPA-PSK
pairwise=TKIP
auth_alg=OPEN
}
### TROUBLESHOOTING
export XAUTHORITY=/home/pi/.Xauthority
export DISPLAY=:0.0
/data/Flukeberry/flukeberry-gui
```

2015.05.26. Tibor Volánszki volanszki@gmail.com

and watch the console messages...