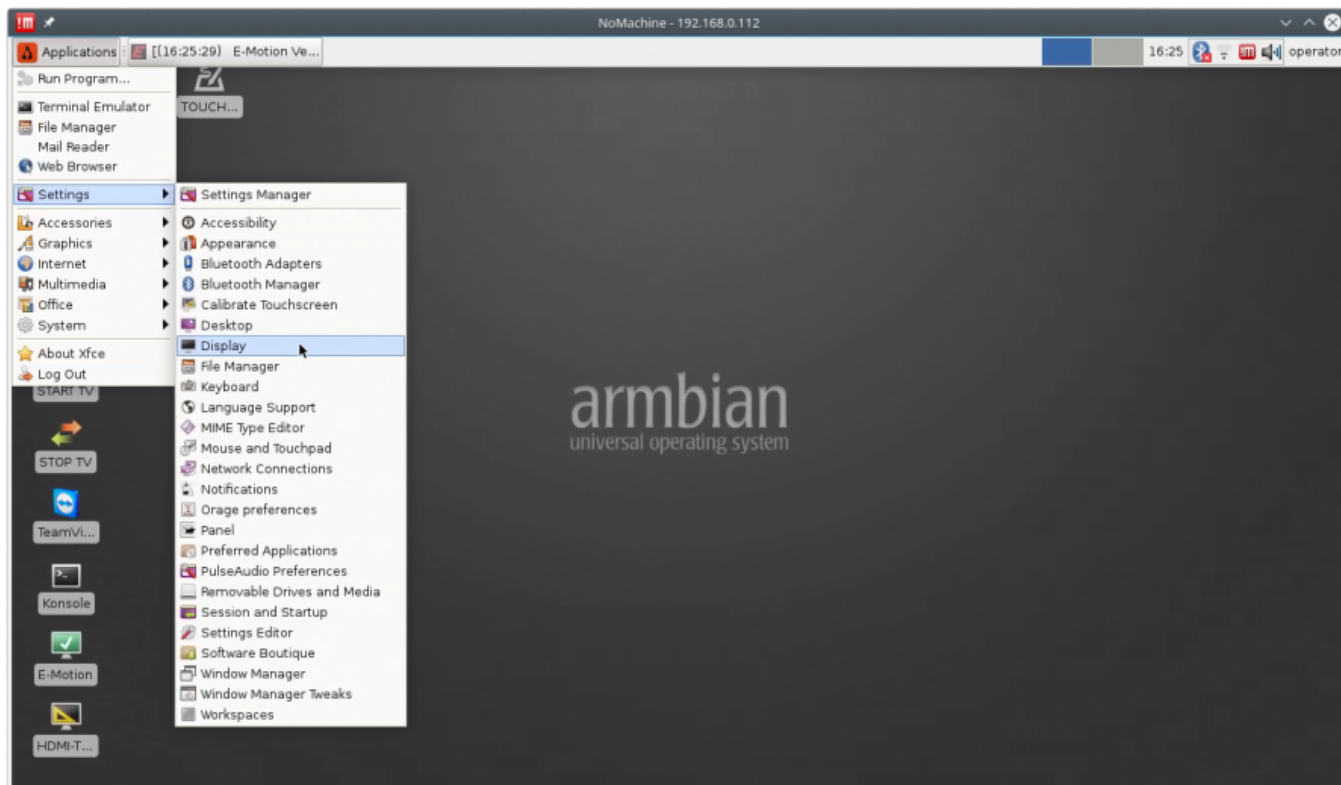


How to add new screen resolution for Tinkerboard

Screen resolution for Tinkerboard can be changed in Settings»Display configuration dialog.

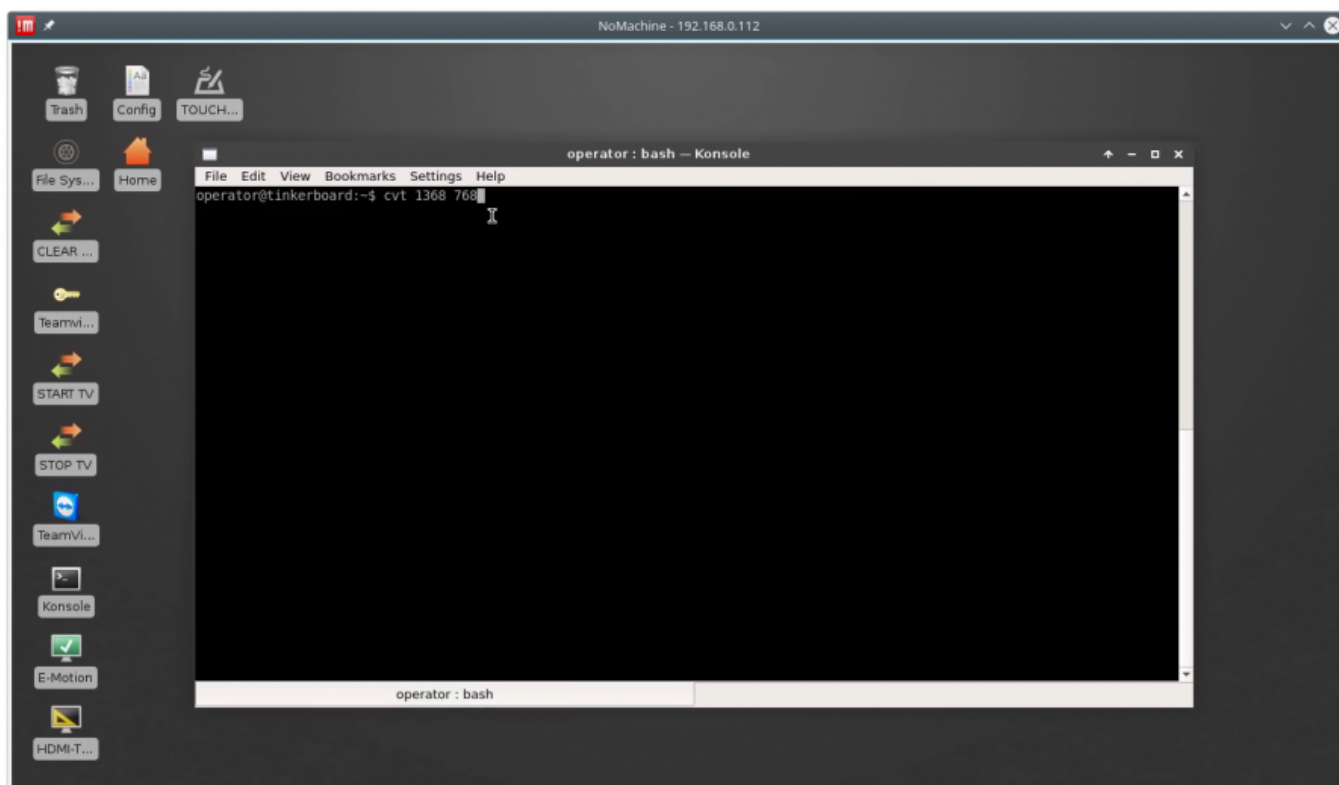


Default resolution list in the dialog does not include popular resolutions like

1. 1280×800
2. 1368×768
3. 1600×900

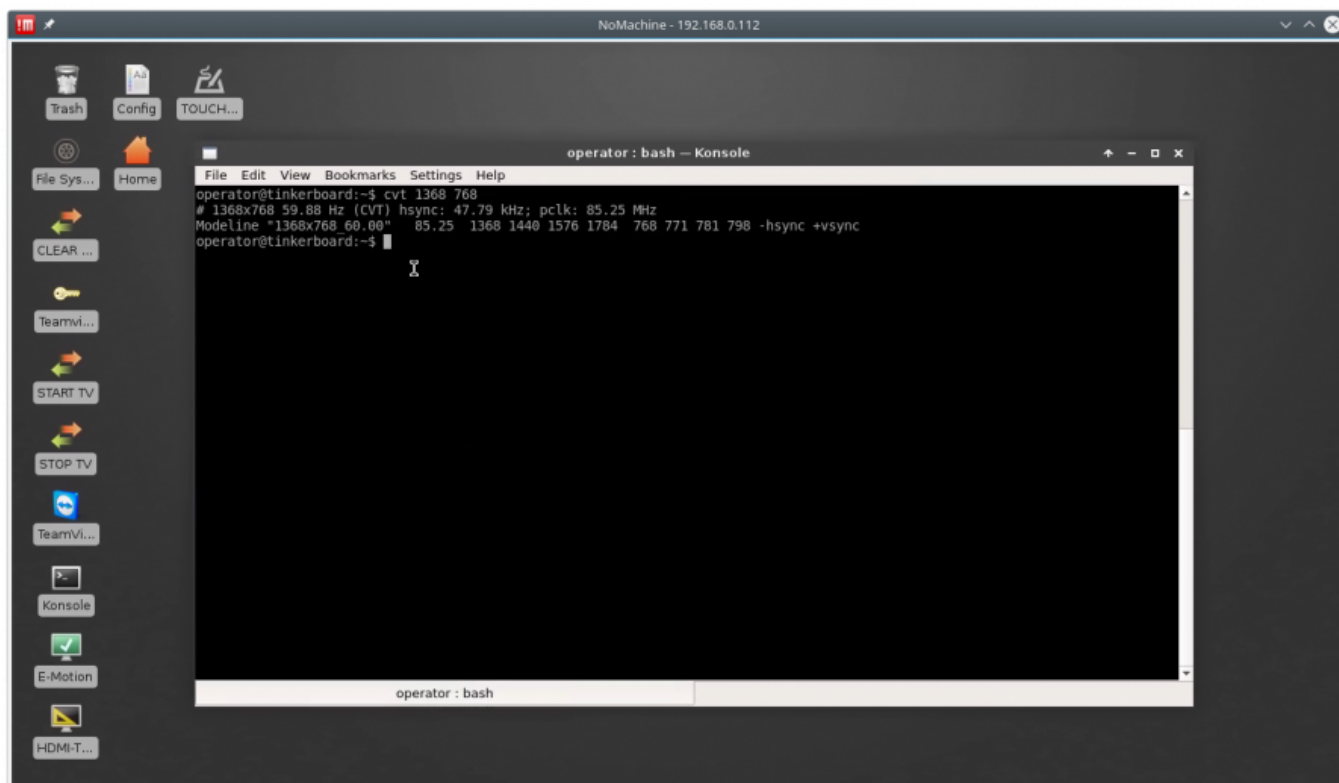
Utility **CVT** can be used add new resolution modes to the list

1. Open console window (**konsole** icon)



2. Type command

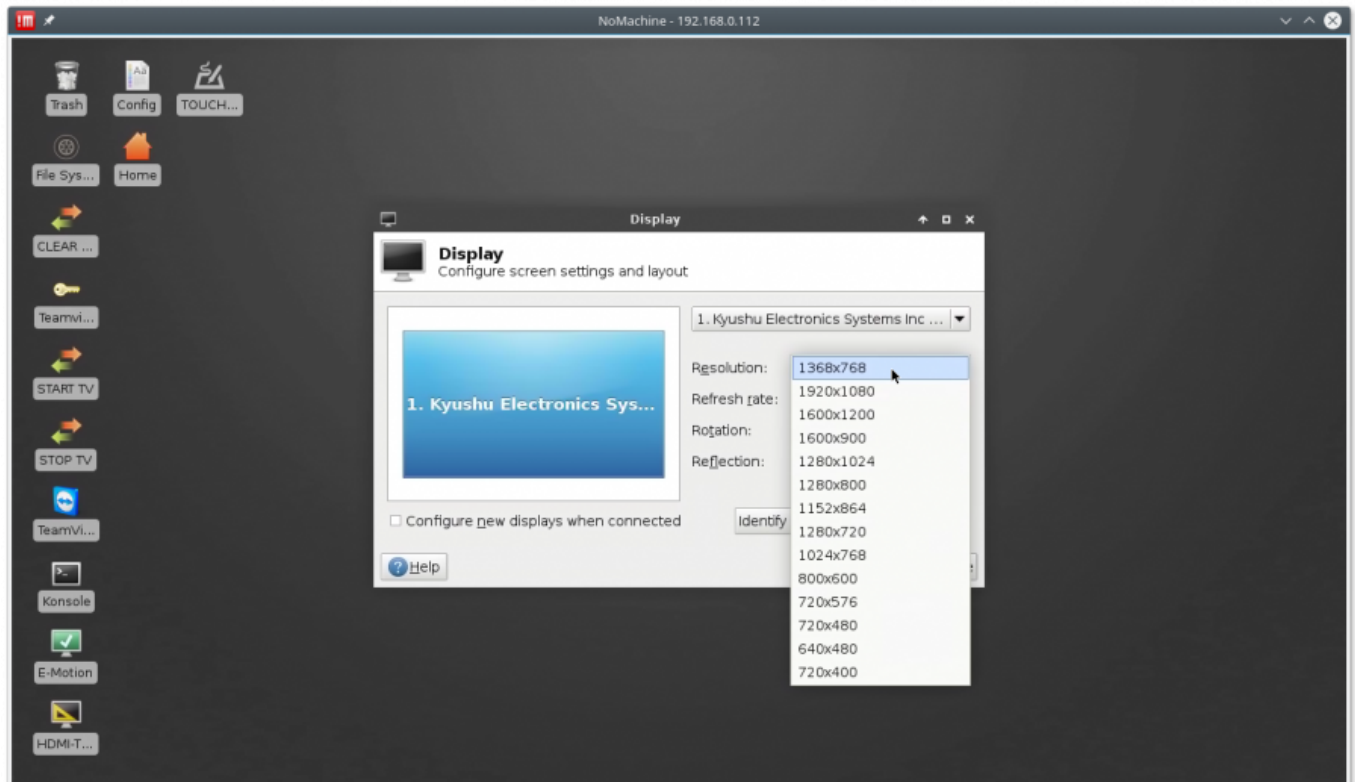
```
cvt 1368 768 [Enter]
```



The utility will print modesettings parameters that should be included in **modesettings** configuration

```
operator@tinkerboard:~$ cvt 1368 768
```

```
# 1368x768 59.88 Hz (CVT) hsync: 47.79 kHz; pclk: 85.25 MHz
Modeline "1368x768_60.00" 85.25 1368 1440 1576 1784 768 771 781 798 -
hsync +vsync
operator@tinkerboard:~$
```



3. Open for edit **modetestings** configuraion file “/etc/X11/xorg.conf.d/20-modesettings.conf” with administrator permissions (sudo)

```
sudo mcedit /etc/X11/xorg.conf.d/20-modesettings.conf
```

4. Add modesettings for 1368×768 resolution into “Monitor” Section. There can be several **Modeline** lines for different screen resolution you like to add. Add “PreferredMode” Option for resolution you like to have by default. Press “F2” button to save the changes.

20-modesettings.conf

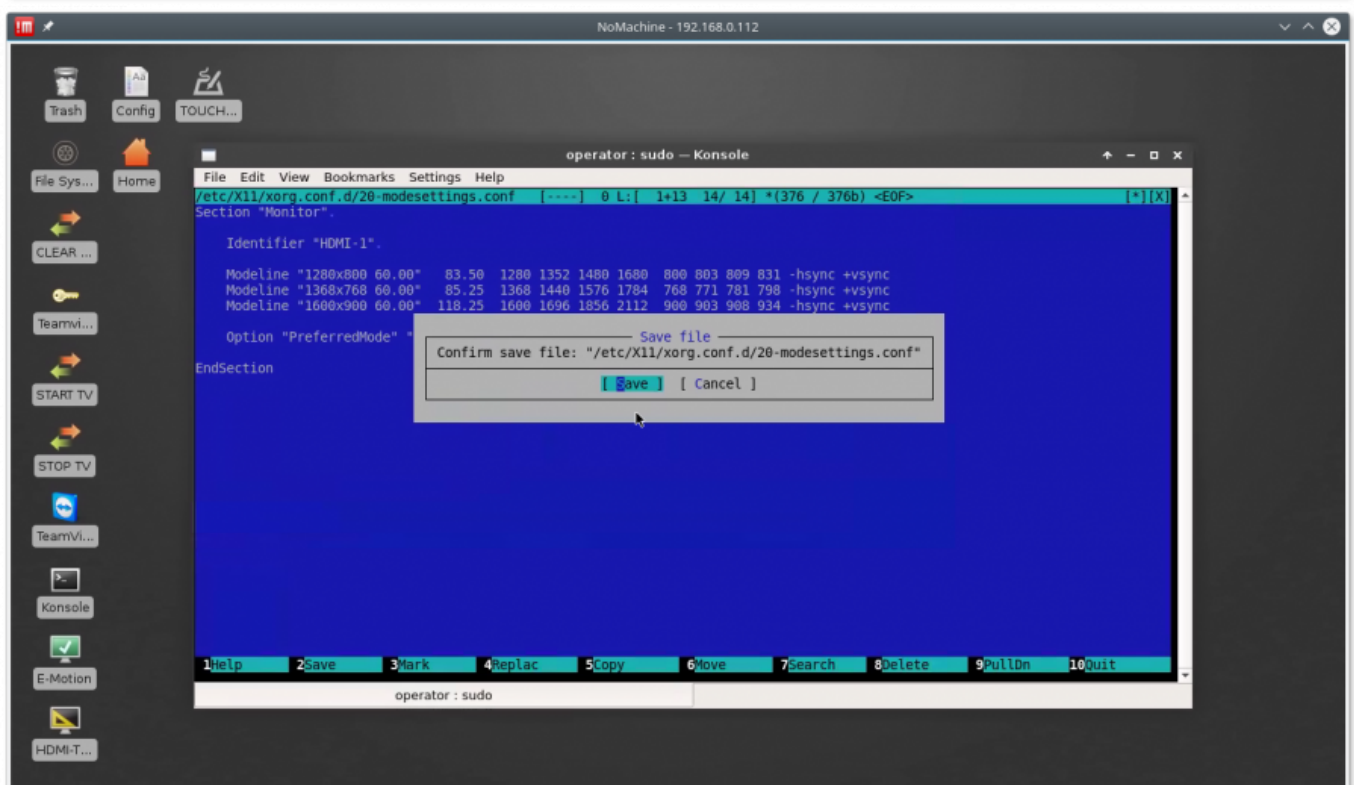
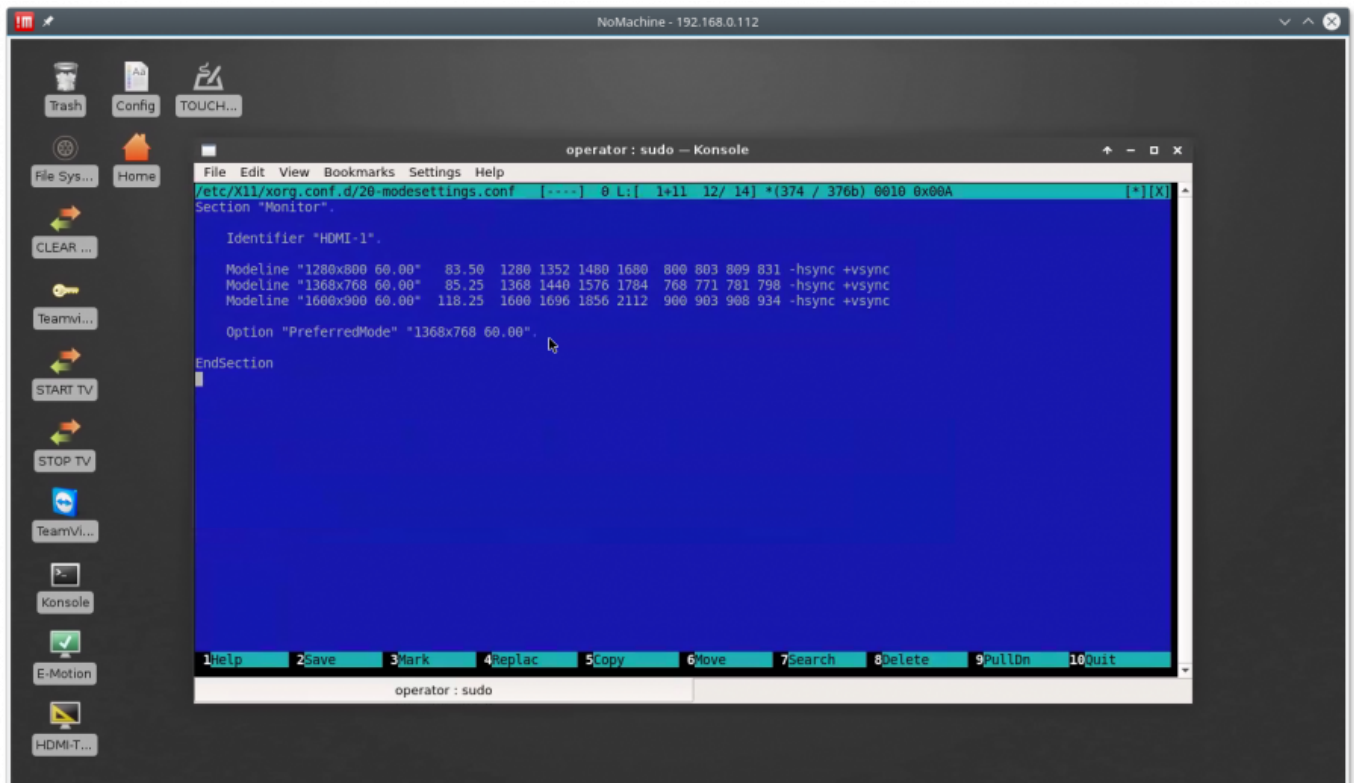
```
Section "Monitor".

    Identifier "HDMI-1".

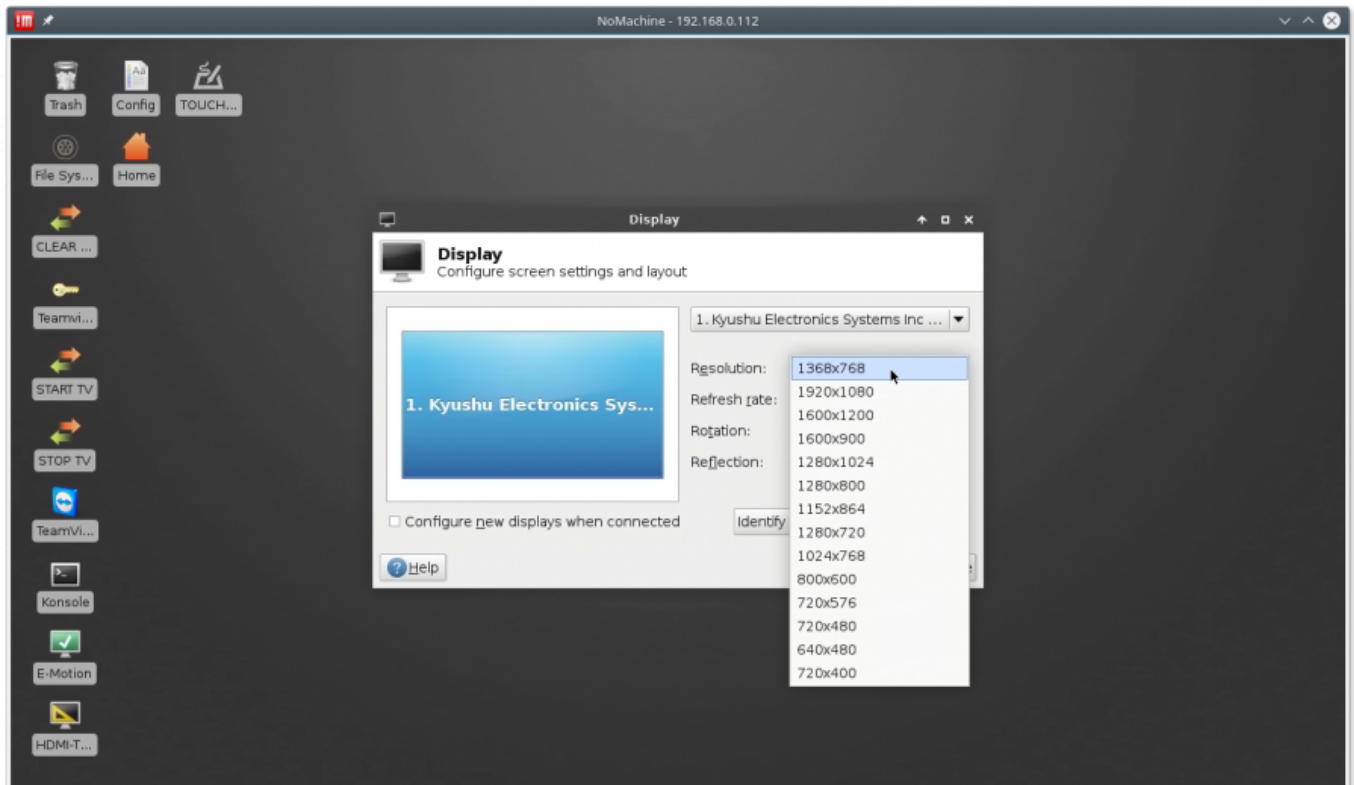
    Modeline "1280x800_60.00" 83.50 1280 1352 1480 1680 800 803 809
831 -hsync +vsync
    Modeline "1368x768_60.00" 85.25 1368 1440 1576 1784 768 771 781
798 -hsync +vsync
    Modeline "1600x900_60.00" 118.25 1600 1696 1856 2112 900 903 908
934 -hsync +vsync

    Option "PreferredMode" "1368x768_60.00"
```

EndSection



5. Reboot the computer and check if new resolutions appear in the Display settings



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