

- (19201080): DPI
- "" " ..."
-
-



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- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
- Astra Linux Special Edition .10015-01 (1.6)
- Astra Linux Special Edition .10015-16 . 1
- Astra Linux Common Edition 2.12.24

(19201080): DPI

, / (). (Dots Per Inch, DPI). :

- xrandr , (, 640480);
- (- Fly > >) ;
- /etc/X11/fly-dm/dpi DPI (: 96, 220);
- /etc/X11/fly-dm/fly-dmrc ServerArgsLocal DPI (96, 220, - 120);
- (- Fly > > Fly > >) DPI (96).

DPI:

1. :
 - a. (Ctrl+Alt+F1 , RCtrl+F1 VirtualBox Qemu);
 - b. -;
2. :
 - a. /etc/X11/fly-dm/fly-dmrc DPI — 96:

```
ServerArgsLocal=-dpi 96
```

dpi , 96.

- b. /etc/X11/fly-dm/dpi () 96, , 96;
- c. (- Fly > > Fly > >) "96" "" ();
- d. :

```
sudo reboot
```

fly-dm :

```
sudo systemctl restart fly-dm
```

"" " ..."

:

1. cvt, . (- 1824 1024) :

```
cvt 1824 1024
```

```
# 1824x1024 59.86 Hz (CVT) hsync: 63.63 kHz; pclk: 154.75 MHz
Modeline "1824x1024_60.00" 154.75 1824 1936 2128 2432 1024 1027 1037
1063 -hsync +vsync
```

, Modeline;

2. xrandr :

```
xrandr --newmode "1824x1024_60.00" 154.75 1824 1936 2128 2432 1024
1027 1037 1063 -hsync +vsync
```

3. , "1824x1024_60.00":

```
xrandr
```

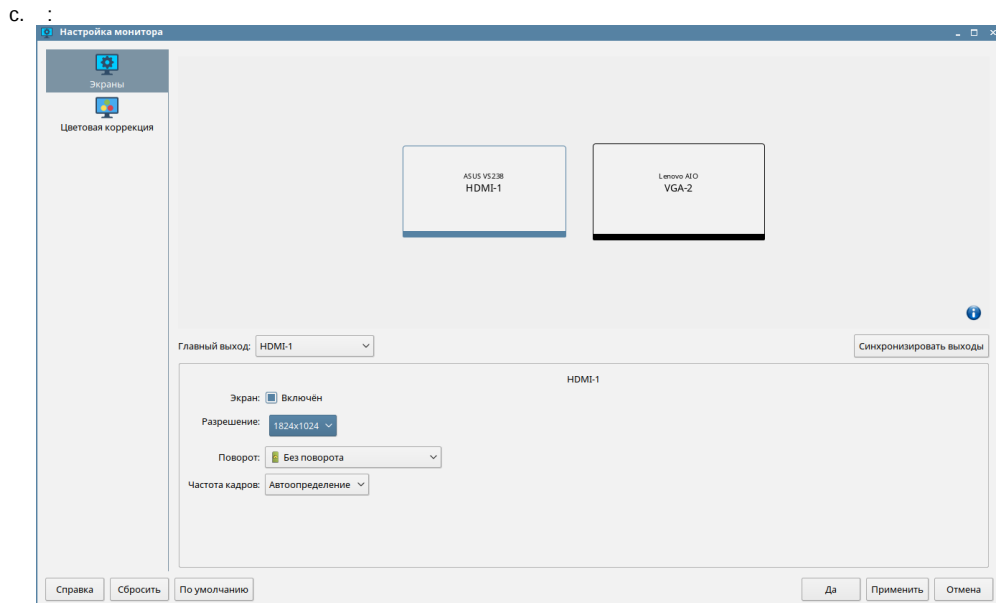
```
Screen 0: minimum 320 x 200, current 1920 x 992, maximum 8192 x 8192
Virtual-1 connected primary 1920x992+0+0 (normal left inverted right x
axis y axis) 0mm x 0mm
    1920x992    60.00*+
    1920x1200    59.95
    1920x1080    60.00
    1600x1200    59.95
    1680x1050    60.00
    1400x1050    60.00
    1280x1024    59.95
    1440x900     59.99
    1280x960     59.99
    1280x854     59.95
    1280x800     59.96
    1280x720     59.97
    1152x768     59.95
    1024x768     59.95
    800x600      59.96
    848x480      59.94
    720x480      59.94
    640x480      59.94
Virtual-2 disconnected (normal left inverted right x axis y axis)
Virtual-3 disconnected (normal left inverted right x axis y axis)
Virtual-4 disconnected (normal left inverted right x axis y axis)
    1824x1024_60.00 (0x3b4) 154.750MHz -HSync +VSync
        h: width 1824 start 1936 end 2128 total 2432 skew 0
clock 63.63KHz
        v: height 1024 start 1027 end 1037 total
1063      clock 59.86Hz
```

4. ,, HDMI:

```
xrandr --addmode HDMI-1 1824x1024_60.00
```

5. :

- a. " ... ",
- b. , " ... ",



1. "" -> "" -> "" -> "Fly" -> "" -> ";
2. "" "" ;
3. "".

|| ||



DPI , DPI , DPI, 96 120.

. DPI X-, (, DisplaySize xorg.conf -dpi value ServerLocalArgs= /etc/X11/fly-dm/fly-dmrc).

DPI, .

1. "" -> "" -> "" -> "Fly" -> "" -> " ";
2. 96 "" ();
3. "";
4. ""

:

1. , . xrandr :

xrandr

:

```
Screen 0: minimum 320 x 200, current 3840 x 1080, maximum 7680 x 7680
HDMI-1 connected primary 1920x1080+0+0 (normal left inverted right x axis y axis) 477mm x 268mm
1920x1080    60.00*+  50.00  59.94
1920x1080i   60.00   50.00  59.94
1680x1050    59.88
1280x1024    75.02   60.02
1440x900     74.98   59.90
1280x720     60.00   50.00   59.94
1024x768     75.03   60.00
800x600      75.00   60.32
720x576      50.00
```

```

720x576i      50.00
720x480       60.00    59.94
720x480i      60.00    59.94
640x480       75.00    72.81    66.67    60.00    59.94
720x400       70.08HDMI-2 connected 1920x1080+1920+0 (normal left inverted right x axis y axis)
477mm x 268mm
1280x1024_75.00 74.90 +
1920x1080      60.00*+ 59.94
1680x1050      59.88
1280x1024      75.02    60.02
1440x900       74.98    59.90
1280x720       60.00    59.94
1024x768       75.03    60.00
800x600        75.00    60.32
720x480        60.00    59.94
640x480       75.00    72.81    66.67    60.00    59.94
720x400       70.08

```

(HDMI-1 HDMI-2), HDMI-1 19201080;

2. :

```
cvt 1920 1080
```

:

```

# 1920x1080 59.96 Hz (CVT 2.07M9) hsync: 67.16 kHz; pclk: 173.00 MHz
Modeline "1920x1080_60.00" 173.00 1920 2048 2248 2576 1080 1083 1088 1120 -hsync +vsync

```

3. .xprofile, :

a. :

```
xrandr --newmode "1920x1080_60.00" 173.00 1920 2048 2248 2576 1080 1083 1088 1120 -hsync +vsync
```

:

- "1920x1080_60.00" - ;
- 173.00 1920 2048 2248 2576 1080 1083 1088 1120 -hsync +vsync - , cvt;

b. :

```

xrandr --addmode HDMI_1 "1920x1080_60.00"
xrandr --output HDMI_1 --mode "1920x1080_60.00"

```