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

:

- 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
```

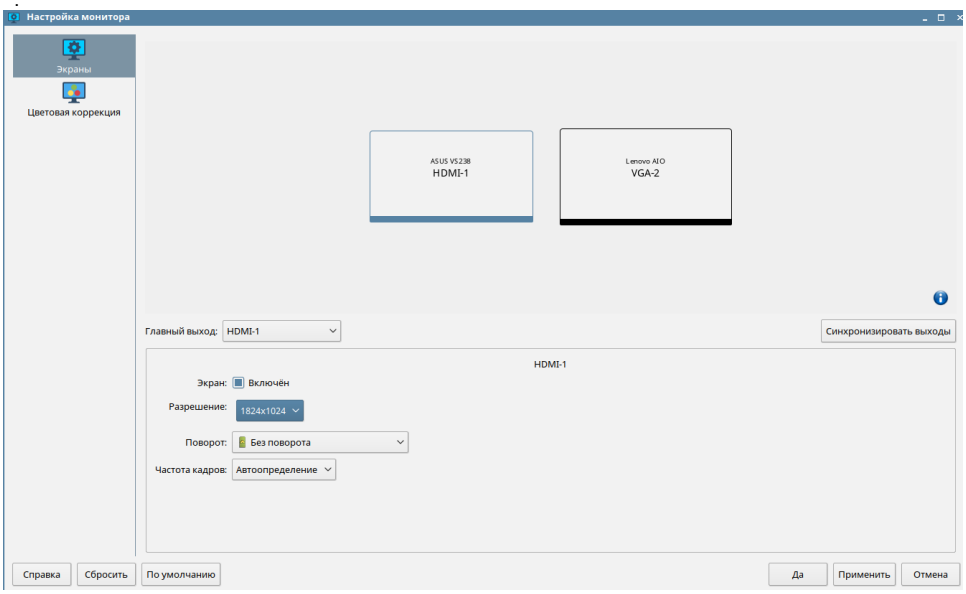
```
Screen 0: minimum 320 x 200, current 1920 x 992, maximum 8192 x 8192
Virtual-1 connected primary 1920x992+0+0 (normal left inverted right x
axis y axis) 0mm x 0mm
   1920x992      60.00*+
   1920x1200     59.95
   1920x1080     60.00
   1600x1200     59.95
   1680x1050     60.00
   1400x1050     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. , "";

c. :



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"
```