

# How to use HDMI Custom EDID on XU4

## Get the edid from your monitor

First, you need to check all of videoconfig in boot.ini are blocked with comment character “#” and HPD env is TRUE.

```
# -----  
# 1920x1080 (1080P) without monitor data using generic information (1080p-  
noedid)  
# setenv videoconfig "drm_kms_helper.edid_firmware=edid/1920x1080.bin"  
# -----  
.....  
.....  
# -----  
# 480x320 without monitor data using generic information  
# setenv videoconfig "drm_kms_helper.edid_firmware=edid/480x320.bin"  
# -----  
  
#-----  
---  
#  
# HDMI Hot Plug detection  
#  
#-----  
---  
setenv HPD "true"
```

Then, make sure to reboot your XU4.

```
$ sudo reboot
```

Now, you can read the monitor's EDID from the following node.

```
/sys/class/drm/card0/card0-HDMI-A-1/edid
```

## Copy edid into /lib/firmware/

Copy the edid binary into /lib/firmware/ directory.

```
$ cat /sys/class/drm/card0/card0-HDMI-A-1/edid >  
/lib/firmware/custom_edid.bin
```

Or, if you have custom edid binary that you want to use, copy it into the same directory.

### Add custom edid path in boot.ini

Add the edid binary name in boot.ini with `drm_kms_helper_parameter`.

```
setenv videoconfig "drm_kms_helper.edid_firmware=custom_edid.bin"
setenv HPD "false"
```

Then, reboot.

```
$ sudo reboot
```

### Check if it works

Now the edid is running and you can check it with these nodes.

```
$ cat /sys/module/drm_kms_helper/parameters/edid_firmware
custom_edid.bin
```

And the display mode list from the edid is shown here.

```
$ cat /sys/class/drm/card0-HDMI-A-1/modes
```

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