

Huncho's Advanced Stretched Resolution / Display Scaling Guide

(please do not skip steps and then ask questions on why it doesn't work)

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Common questions with answers are located at the bottom of this guide

1.

Learn how to get into safe mode

" Start your PC, just as Windows attempts to load (spinning dots), press and hold Power Button for 5 - 10 seconds to perform a Hard Shut Down. Do this twice. On the third start Windows will boot into the Recovery Environment and from there you can access System Repair, Safe Mode, Command Prompt . . . etc."

Essentially, press the power button on your PC. After 2 seconds, press down the power button and hold it until it turns off. Repeat this again. Then press the power button and it will boot up.

Click on Recovery Options if prompted, then
Click See Advanced Repair Options.
Click Troubleshoot.
Click Advanced Options.
Click Windows Startup Settings.
Click Restart. When the computer restarts, press 4 or 5.

Another two options to get into safe mode that won't work for everyone.

Hold Shift while restarting the PC with the restart button on your PC.

Click See Advanced Repair Options.
Click Troubleshoot.
Click Advanced Options.
Click Windows Startup Settings.
Click Restart. When the computer restarts, press 4 or 5.

Press F8 or FN + F8 as your computer is booting up.

Once in Safe Mode, you can either:

- Go into CRU and change the resolution that made you blackscreen
- use reset-all.exe and it will reset your displays.
- Press, Win+X, open Device Manager and then click to expand the Display Adapter section. Right click your display driver from the list and select uninstall device. Click ok is prompted and restart the computer (Last resort scenario, can also use DDU to uninstall)

PLEASE DO STEP ONE FIRST SO IF YOU DO BLACKSCREEN, WHETHER IT BE THAT YOU USED A RESOLUTION THAT ISN'T SUPPORTED OR YOU DON'T HAVE DISPLAY SCALING, YOU KNOW HOW TO FIX IT AND YOU CAN'T BLAME ME. I AM NOT LIABLE FOR THINGS YOU DO TO YOUR COMPUTER.

2.

Now that we know what to do incase we black screen, **let's learn how to not blackscreen.**

***If you use custom resolutions in Nvidia Control Panel**, you need to delete/ disable them. Then restart computer before continuing*

***If you use multiple monitors**, only have the one you want to use plugged in (trust me, it will cause you unneeded hassle)*

-Open CRU

-Make sure at the top where it says your display name, it says: **(active)***. If not change it to that one.

-Under Detailed Resolutions> add...

-Add a resolution that keeps the same # of vertical pixels that is native on your monitor, for example, 1080p and horizontal pixels that end in 0, for example, 1750 or 1720 **(1750 x 1080) is used in this example.**

-You can try different resolutions later but these have a higher chance of working.

-Change your Refresh rate to whatever you normally use, ie 240hz.

-For now, just keep the Timing on manual at the top, if it does not work, we will use LCD Reduced or Native.

***IMPORTANT STEP*. Put your monitor on whatever resolution and hz is at the top of the detailed box. ie 1920 x 1080 60hz**

-Click ok.

-Under extension blocks at the bottom, click on the row, then edit...

-Now delete all the resolutions in the top box, but leave everything in the bottom box.

-Click ok.

-Click ok again leaving the stretched resolution under your "native res".

-Restart the entire PC. **Do not use restart64 or restart.exe.** (restart64 is known to cause people to black screen regardless of the resolutions changed)

-Now go into Display settings.

-Display adapter properties.

-List all modes.

Then click on the resolution you made. Click ok and ok.

(This step was just making sure the resolution works on your monitor)

If you get blackscreened at this step, you can try the options in step 6

3.

-We have to open up CRU.

-Move your stretched resolution above the "native res" in detailed resolutions.

-Click ok.

-Switch back your display to the "native res 1920 x 1080"

-Restart PC.

*If you get blackscreened at this step, try the options in step 6.

4.

Now when your PC starts, go to display settings, ***Don't click on your resolution*** but click where it says resolution (1920 x 1080) and it should say "1750 x 1080 (recommended) "

Then go to display adapter properties> List all modes> select your resolution with the correct Hz> click ok then ok.

5.

-Open the Nvidia Control Panel.

- Adjust desktop size and position.

-Click on No Scaling.

Under "Perform Scaling on:"

If you have the option for Display, choose that and check the box for override the scaling mode set by games and programs.

If you have the option for GPU, choose that and do not check the box for override the scaling mode set by games and programs.

For AMD GPU, use "Centered"

For Fortnite, if you have your **gameusersettings** on read only, you need to uncheck that or it wont work properly.

If it is working properly in Fortnite, when switching to Fullscreen, it should only give you the option for your stretched resolution.

6. OPTIONS TO TRY

Now if you have completed 1-4 but you still have “black bars” in Fortnite or any other game on Fullscreen, here are things to try:

- Use LCD reduced or LCD native for the timings in CRU
- Try a different resolution
- Open CRU and delete the standard resolutions and the established resolutions. (restart after)
- If you use display port, go under extension blocks and delete the data blocks in the bottom
- reset CRU and this time do not delete the detailed resolutions under the extension blocks
- delete the other resolution under the top box (detailed resolution)
- If you have both display port and hdmi ports, try both on your monitor
- Make sure your HDMI/display port is always plugged into your GPU, not the motherboard.

7. COMMON QUESTIONS + ANSWERS

- Can I do this on a laptop? Only if you have and use an external monitor
- How do I know if I have display scaling? Most of the time it will tell you in Nvidia Control Panel, but if you complete step 2 and it works, but after step 3 you black screen, you likely do not have display scaling. Step 2 working means that resolution is supported on your monitor (GPU scaling is being used), Step 3 is switching to display scaling.
- Can I use fullscreen or aspect ratio in Nvidia control panel? No, that is GPU scaling.
- Can I use Windowed Fullscreen? Nope. Still GPU Scaling
- What resolution should I use if I only have GPU scaling? Your monitor's native resolution
- Can I use multiple resolutions in CRU? Only the top resolution under detailed resolutions is display scaling, everything under that is a GPU scaled version of the top resolution.
- How do I change everything back to normal? Reset-all.exe
- Why is my resolution blurry? Remember, less pixels + stretched will be blurrier but it's possible that your monitor just has a bad scaler, but you should try a few more resolutions to see if any look better.

- What can I do to increase FPS if I cannot use GPU scaling for stretched resolution? Now there is performance mode in Fortnite, but if you do not like it, just use DX11 and lower the % resolution quality.
- I'm going to test a bunch of common resolutions for my next video with dx11 and performance mode, comparing fps and view angles in and around boxes. I will add the link for the video to this guide after it is posted.

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Tips from Its Jerian's video questions:

Like this comment so Jerian can pin it!!!

Tips:

Here is a link to the most up to date CRU. There is more features that you can try to get working (exact, exact reduced, etc)

<https://custom-resolution-utility.en.lo4d.com/windows>

Remember, not all monitors have the ability to display scale. A lot of G-Sync monitors do not have it.

If you get excessive screen tearing, try a different resolution (1747x1080 instead of 1750x1080) << things like this

If Fortnite is the only thing that doesn't show up full screen, make sure you don't have extension blocks with a resolution in it, and make sure the resolution you want is at the top of CRU. If it works correctly, the only resolution available in Fortnite should be the resolution you have set. You shouldn't see 1920x1080.

There is many issues that come up when using more than one monitor, so do these steps with only 1 monitor plugged in. Then plug it back in once you have it working.