

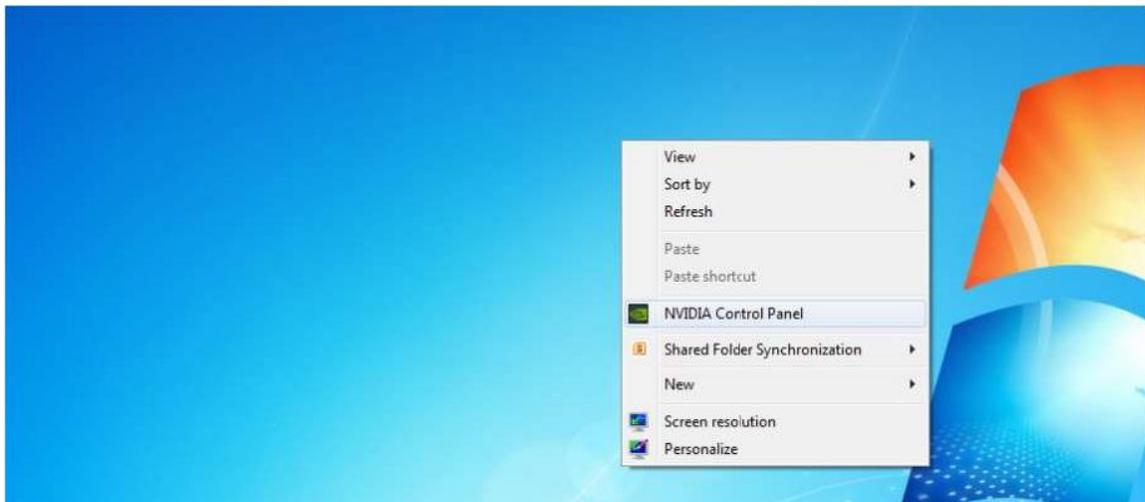
8K output resolution settings

Introduction

Following procedures show how to set up the PC output timing to 8K/1K. They are different according to different brand of graphic card. Nvidia display card can be configured with customized 8k/1k output resolution without disabling Digital Signature. Intel and some other brand display card may require disable Digital Signature and install INF driver to get 8k/1k output

For NVIDIA graphic card

Step 1: right click on the mouse to open up **NVIDIA Control Panel**.

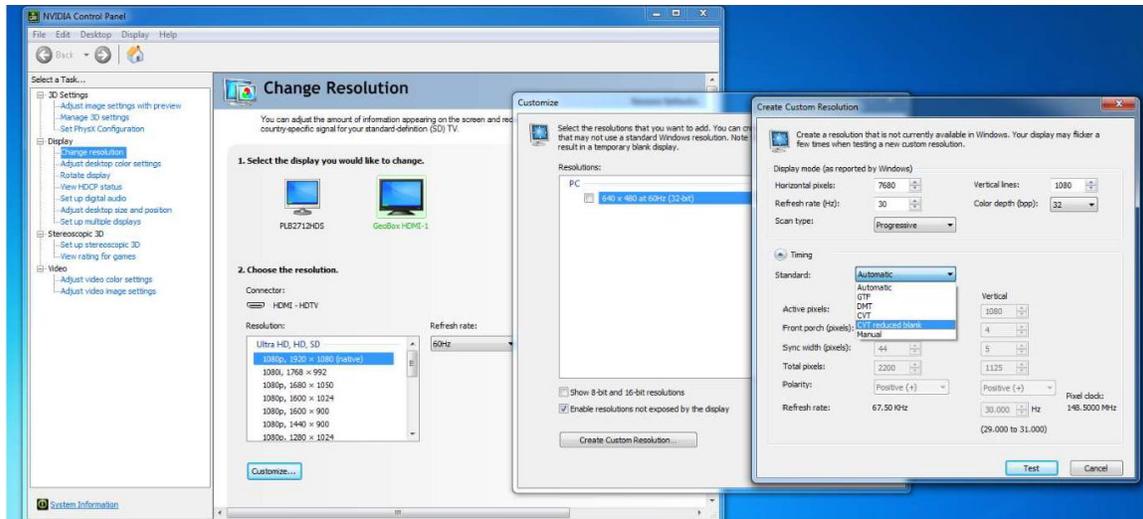


Step 2:

Go to **Display** → select **GeoBox HDMI** → **Change resolution** → **Customize** → **Create Custom Resolution**.

Step 3: In Create Custom Resolution window:

- **Horizontal pixels** choose 7680
- **Vertical lines** choose 1080 (or 1200)
- **Refresh rate (Hz)** choose 30
- Click **Timing** and choose in **Standard: CVT reduced blank**



Step 3:

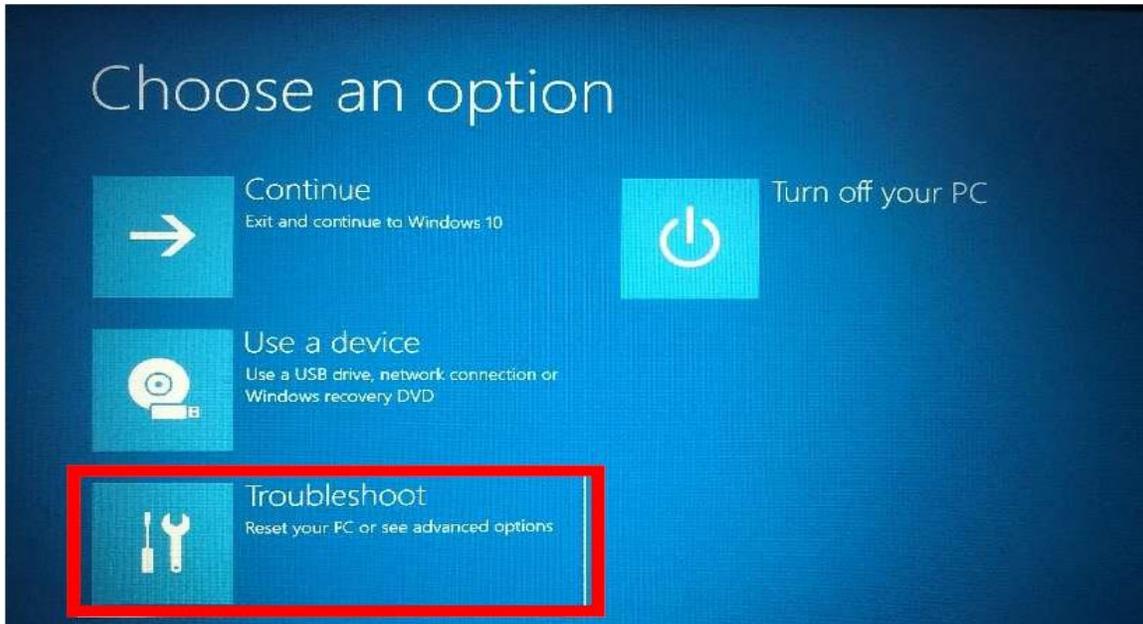
After finish **Nvidia Control Panel** output timing setting, user still needs to execute **Screen Resolution** setting to select 8k/1k output resolution for GeoBox. 8k/1k will be in the resolution list for GeoBox.

If user can't find 8k/1k resolution in the list, user may need to re-boot the PC to get this resolution.

For Intel graphic card

Step 1. Disable Windows Digital Signature

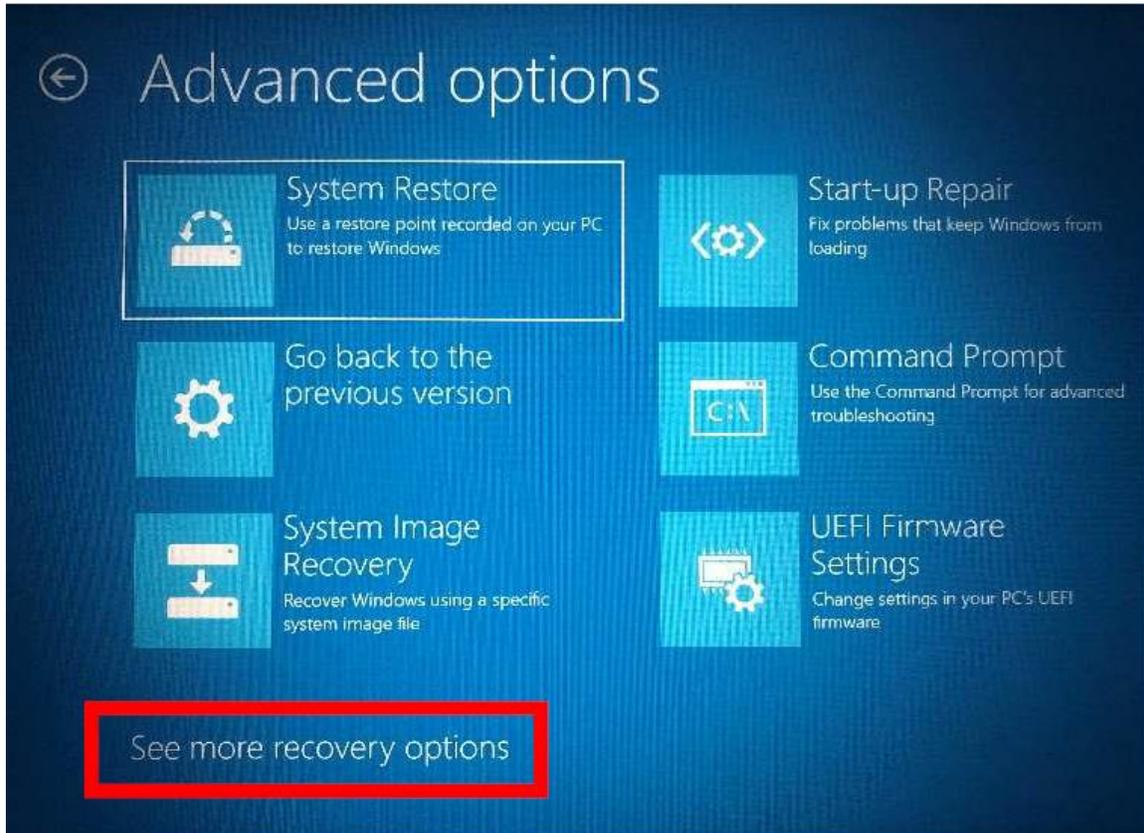
1. [Power off and Re-start] with [shift] key is pressed.
2. After Restart again, user will see below window. Please select [Troubleshoot]



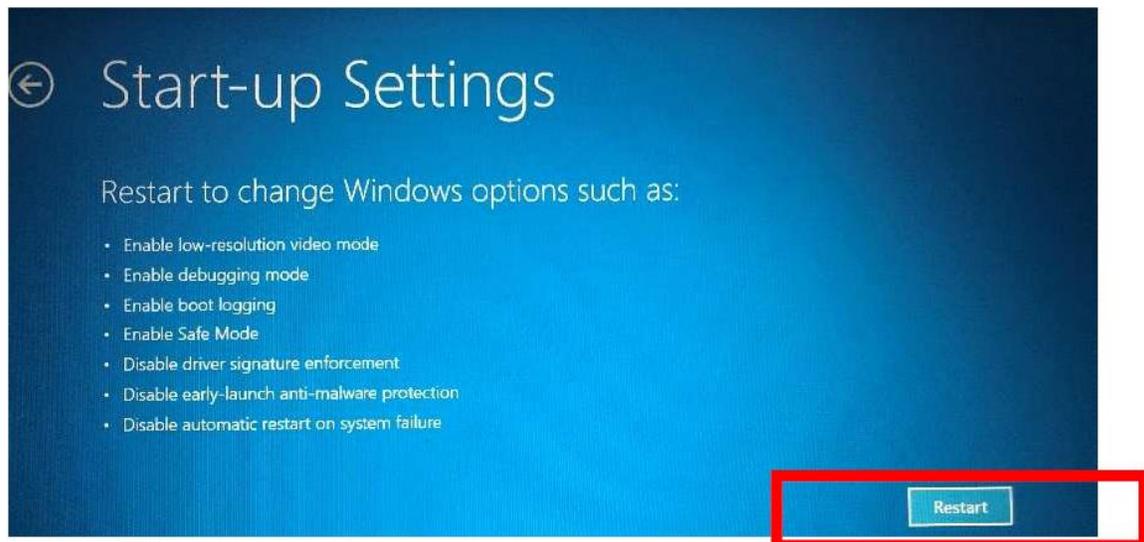
3. Click [Advanced Settings]



4. Click [See more recovery Options]



5. Click [Startup Settings] and [Restart]
6. Wait for PC Restart, user will see below Start Up Settings screen. Please click [Disable driver signature enforcement].



7. Please install GeoBox.inf driver before re-start your PC. Otherwise, Digital Signature may be re-enabled after PC re-start.

Step 2: Install GeoBox INF file

Right Click on GeoBox.inf driver by mouse, then click [Install] to start installation.
After finish inf driver installation, user can start Intel display card settings

Step 3: Intel Display card 8k output setting procedures

1. Click [Intel Control Panel]
2. Select [Monitor]
3. Select [GeoBox HDMI]
4. Click [Customized resolution], then click [Yes]
5. Input required resolution and select [CVT-RB] (reduced blanking)
6. Click [Add] and confirm [Yes]
7. Right click Desktop and select [Resolution Settings]
8. Select GeoBox as Display 2 under extension mode
9. Select Display 2 and set Resolution at 7680x1080
10. If user can't find 8k/1k resolution in the list, please re-boot the PC to get this timing. It depends on the behavior in different PC.
11. Confirm to reserve the change

Important notice:

1. GeoBox can support horizontal resolution up to 3x1920=5760 or 4x 1920=7680 @30Hz refresh rate with vertical resolution up to 1200. If user wants to support 5760x1080 input timing, please add this timing into supporting list through the same procedures as 8k/1k.
2. The resolution installation is related to the input port EDID settings in GeoBox. If user set EDID at specific timing (such as 3840*2160 @60Hz) in specific input port (such as HDMI1), once user select other input port or different EDID resolution, the PC

- output resolution will be also changed to new resolution but not at 8k/1k. If user selects back to this input port and EDID, PC will automatically output 8k/1k timing.
3. The PC with 4k/2k @60hz output capability should be able to output 8k/1k timing.
 4. User can re-start the PC and the 8k/1k output resolution will be kept at the same without change.
 5. User can turn off/on GeoBox without affect 8k/1k settings unless user changing input port or set different EDID.
 6. When 8k/1k signal is enabled, user needs to set Video Wall [Zoom] at H=4 to see clear full HD image in the monitor.
 7. If video playback is required, please convert video into H.265 format and select a display card embedded with H.264 & H.265 hardware decoding function for smooth video playback. Nvidia GTX 1080 / 1080Ti will be a good fit for 8k/1k application.
 8. In non-PC system is used, please select video player & photo player that can support 8k/1k high resolution output for GeoBox system.