

PC 6K/8K output resolution settings

Introduction

To set up a PC with a customized output timing of up to 7680*2160/30Hz or 7680*1200/60Hz, the procedures vary depending on the brand of the graphics card used. For Nvidia display cards, users can configure an 8k output resolution without disabling the Digital Signature. In contrast, Intel and some other 4k2k display card brands may require disabling the Digital Signature and installing an INF driver to achieve 8k output.

When the customized PC output resolution exceeds 4k2k, users must select the Reduced Blanking (RB) setting in the CVT setup. It is important to note that Mac systems may have different behaviors and might restrict users from setting resolutions beyond 4096*2160.

Important notice: HBR settings

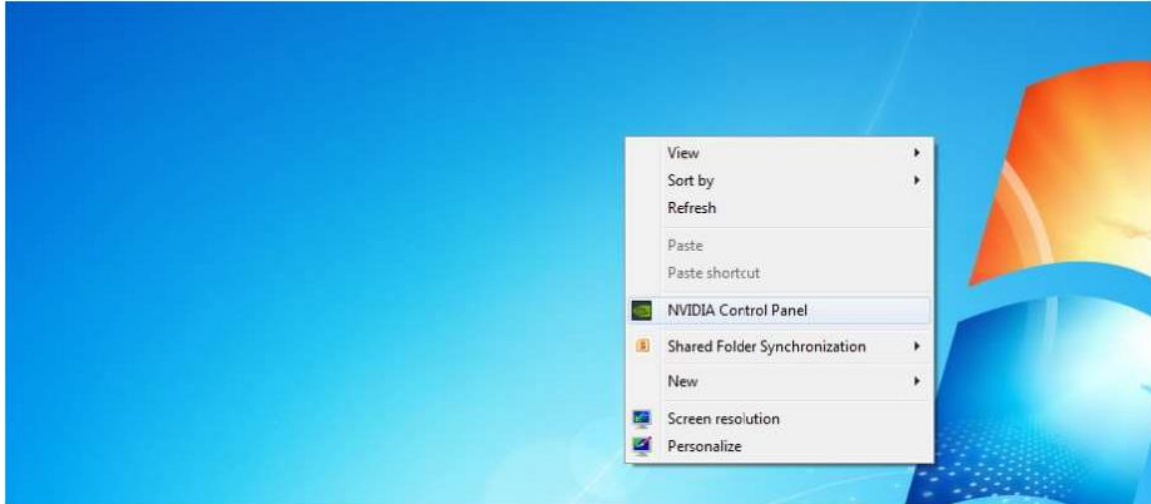
M81x, G81x, G90x, and UD10x models support input resolutions of up to 7680*2160/30Hz or 7680*1200/60Hz without requiring change to the HBR settings. However, for the M80x model, users need to access OSD Factory Setting mode to disable the [HBR] function in order to support up to 8k input signals. The process is as follows:

1. Insert a small pin into the reset hole and press it five times with a 1-second interval until the OSD menu with the [F] text appears at the top left corner.
2. Use the directional keys to select [F] and then press OK to enter Factory Setting mode.
3. Select the [HBR] menu and switch it to the OFF position.
4. Exit the OSD menu to complete the process.

For other models, please refer to the user manual to determine the maximum supported input timings. Some models, such as G81x, G80x, and G40x, can handle input resolutions of up to 8k1k/30Hz without needing adjustments to the HBR settings.

For NVIDIA graphic card

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

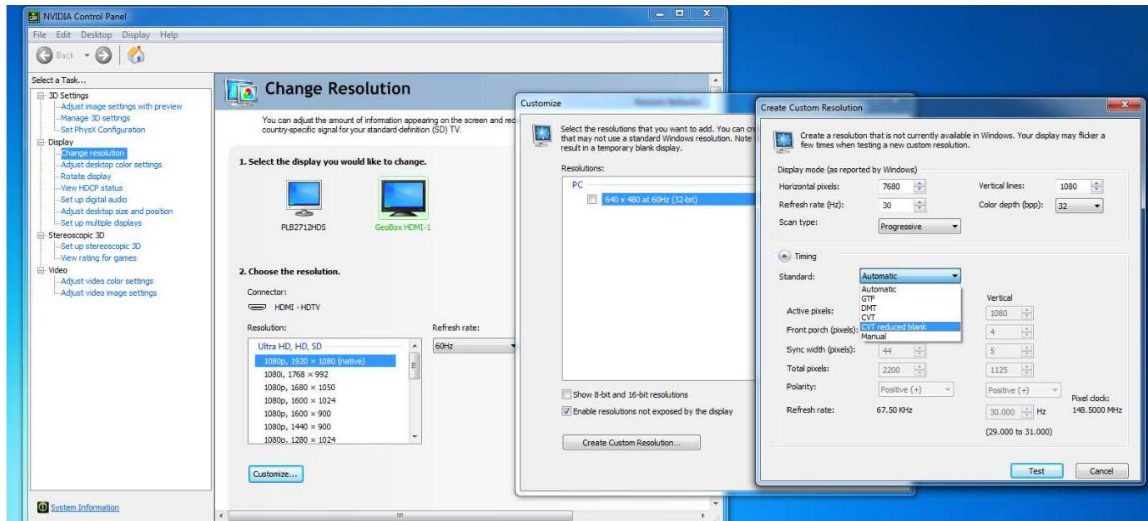


Step 2:

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

Step 3: In Create Custom Resolution window:

- **Horizontal pixels** choose 7680 (or other resolutions)
- **Vertical lines** choose 1080 (or 1200)
- **Refresh rate** (Hz) choose 30 or 60
- Click **Timing** and choose in **Standard: CVT reduced blank**

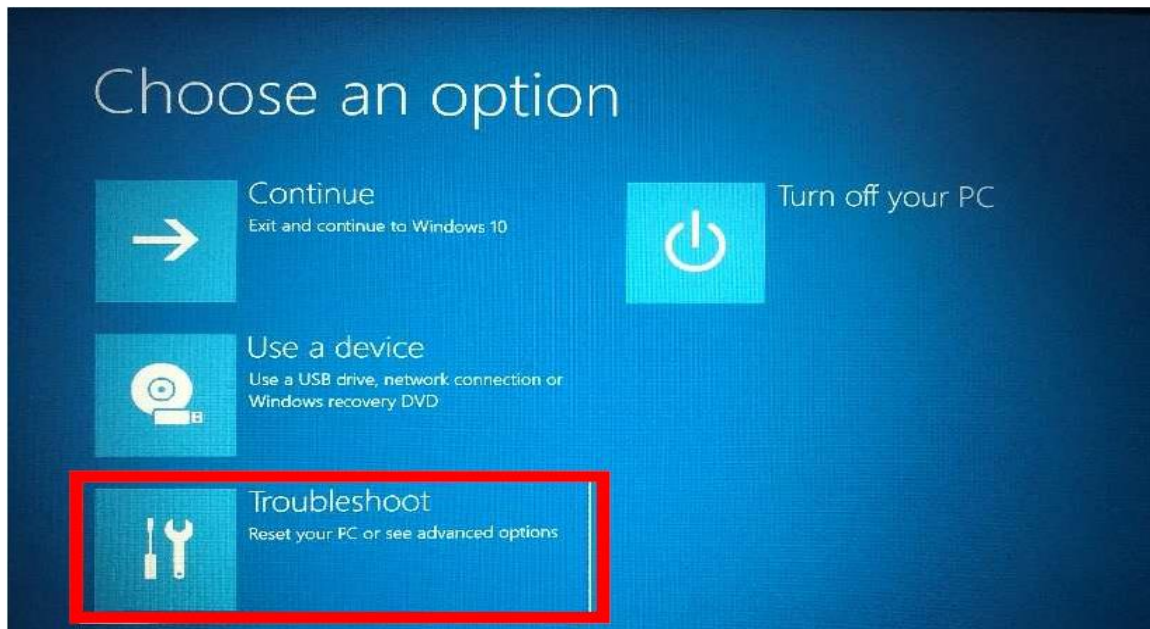


Step 3:

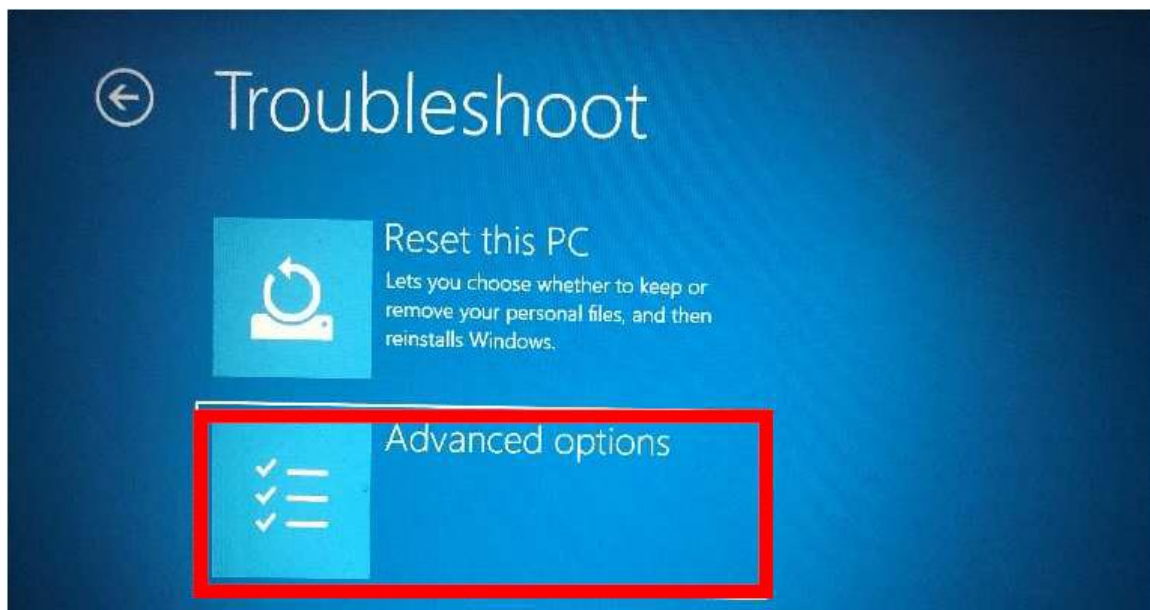
After finish **Nvidia Control Panel** output timing setting, user still needs to execute **Screen Resolution** setting to select 8k output resolution for GeoBox. 8k output will be in the resolution list for GeoBox. **If user can't see 8k output in the resolution list, please re-boot PC.** After re-boot PC, use should be able to see this timing in the resolution list for selection. Otherwise, user needs to execute Nvidia Control Panel setting again.

For Intel graphic card**Step 1. Disable Windows Digital Signature**

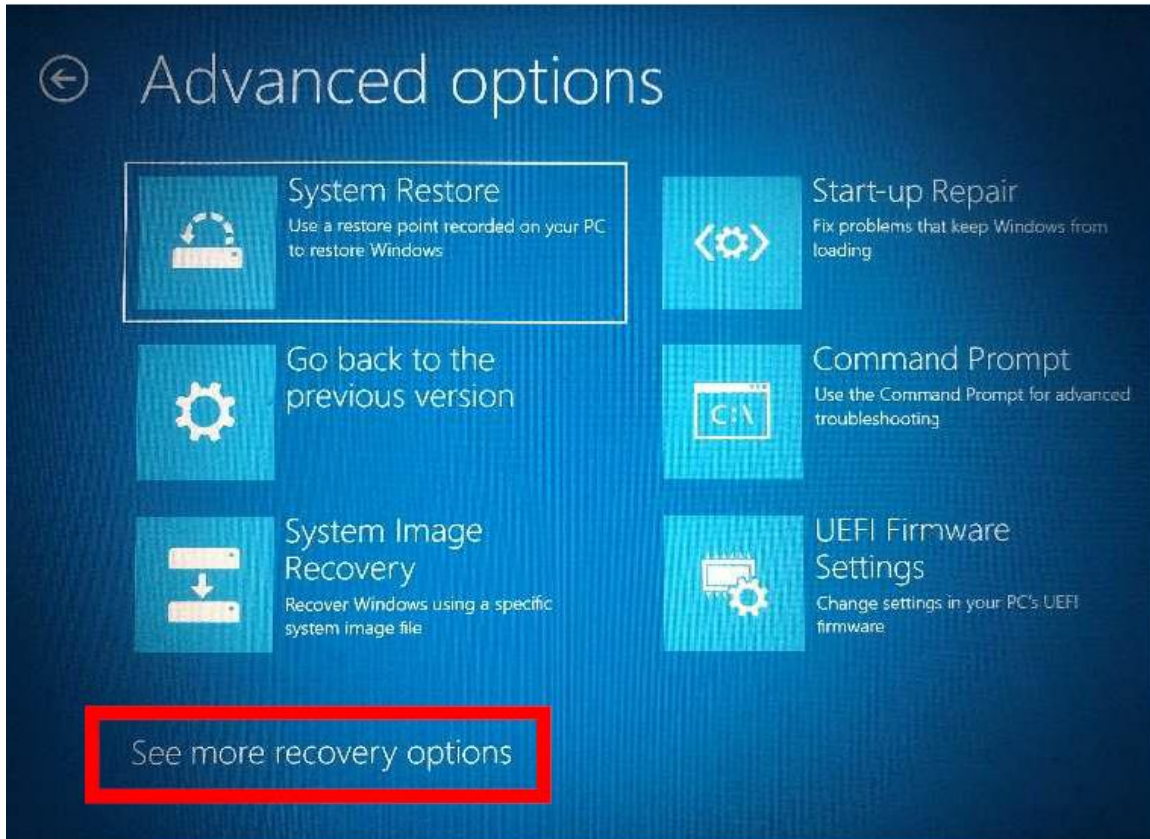
1. [Power off and Re-start] with [shift] key is pressed.
2. After Restart again, user will see below window. Please select [Troubleshoot]



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 (or 1200)
10. Confirm to reserve the change

Important notice:

1. The customized output resolution of the PC is determined by the EDID settings in GeoBox. Users can choose any EDID for a specific input port (e.g., HDMI1) to support a customized resolution. Switching to a different input port or selecting a different EDID will change the PC output resolution accordingly. However, returning to the original input port and EDID selection will automatically revert the PC to the original preset output timing.
2. A PC capable of outputting 4k/2k @60Hz should support the output timing of 8k1k/60Hz or 8k2k/30Hz.
3. Restarting the PC will maintain the output resolution at the preset timing.

4. Users can turn the GeoBox on and off without affecting the 8k settings unless they change the input port or select a different EDID.
5. When enabling the 8k/1k signal, users can set the Video Wall [Zoom] to H=4 to ensure clear full HD images on the monitor for further adjustments.
6. For video playback, it is recommended to convert the video into the H.265 format and use a display card with embedded H.264 & H.265 hardware decoding functions for smooth video playback.