

GE/GP/GF/GL/GV Series Gaming Notebook

with 8th Gen. Intel Core Processor

Video Output Information

1. In the External Display Output column, you can find the supported resolution and the refresh rate when connecting to the display port.

2. Video Output column shows the number of the output connector and its supported version.

   *TB: Thunderbolt 3 features high-definition video transmission and compatible with Display Port 1.2.

3. See the list of used abbreviations in the right table.

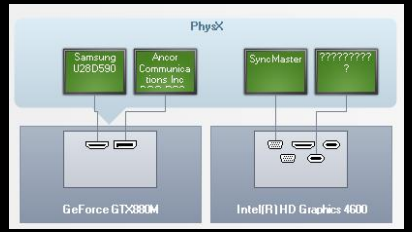
4. In order to achieve the 3D BD playback, the notebook unit must meet the below requirements.
   - A Blu-ray Optical Drive which is capable of 2X or faster read speeds.
   - A video player software which supports the 3D/3D 4K BD playback.
     (For example the PowerDVD Ultra version or any other 3D software player.)

5. To know which graphics is the display port connecting with:
   - Models with Optimus structure: Check the connected graphics in the “Set PhysX Configuration” page in NVIDIA Control Panel.
   - Other non-Optimus structure models (hardware switchable graphics) like GT72/GT80, the connected graphics depends on the GPU mode (iGPU: Intel GPU/dGPU: NVIDIA GPU).

External Display Output	
4Kx2K	**120Hz**
HDMI: 4096x2160 @60Hz mDP: 3840x2160 @60Hz TB-HDMI: 4096x2160 @30Hz TB-DP:2560x1440 @144Hz	mDP: 2560x1440 @144Hz TB-DP:2560x1440 @144Hz

Video Output		
mDP	**HDMI**	**TB***
1 (v1.2)	1	0

Acronym	Description
DP/mDP	DisplayPort/Mini DisplayPort
DVI	Digital Visual Interface
HDMI	High-Definition Multimedia Interface
BD	Blu-ray Disc
TB	Thunderbolt



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P.S. To find the display output information for other series, please visit Knowledge Base_1661.

GE Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GE75 Raider 8SG	RTX 2080	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @ 60Hz	HDMI: 1920 x 1080 @ 120Hz mDP: 2560 x 1440 @ 144Hz	X*2	✓	3
GE63 Raider RGB 8SG		1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @ 60Hz	HDMI: 1920 x 1080 @ 120Hz mDP: 2560 x 1440 @ 144Hz	X*2	✓	3
GE75 Raider 8SF	RTX 2070	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @ 60Hz	HDMI: 1920 x 1080 @ 120Hz mDP: 2560 x 1440 @ 144Hz	X*2	✓	3
GE63 Raider RGB 8SF		1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @ 60Hz	HDMI: 1920 x 1080 @ 120Hz mDP: 2560 x 1440 @ 144Hz	X*2	✓	3
GE75 Raider 8SE	RTX 2060	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @ 60Hz	HDMI: 1920 x 1080 @ 120Hz mDP: 2560 x 1440 @ 144Hz	X*2	✓	3
GE63 Raider RGB 8SE		1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @ 60Hz	HDMI: 1920 x 1080 @ 120Hz mDP: 2560 x 1440 @ 144Hz	X*2	✓	3

*1: A native HDMI 2.0 with 4K resolution display supported monitor is necessary in order to achieve the 4K @60Hz display output.
*2: Additional requirements are needed, please refer to the point 4 on page 1.
*3: At least two or more display outputs which connecting to NVIDIA graphics support NVIDIA Surround View. Refer to the point 5 on page 1.

GE Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GE63 Raider RGB 8RE	GTX 1060	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3
GE73 Raider RGB 8RE		1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3
GE63 Raider RGB 8RF	GTX 1070	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3
GE73 Raider RGB 8RF		1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3

*1: A native HDMI 2.0 with 4K resolution display supported monitor is necessary in order to achieve the 4K @60Hz display output.
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GP Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GP63 Leopard 8RE GP73 Leopard 8RE	GTX 1060	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3
GP63 Leopard 8RD GP73 Leopard 8RD	GTX 1050Ti	1 (v1.2)	1	HDMI: 3840x2160 @30Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	X	3

*1: A native HDMI 2.0 with 4K resolution display supported monitor is necessary in order to achieve the 4K @60Hz display output.
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GF Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GF63 Thin 8SC	GTX 1650	-	1	HDMI*1: 4096x2160 @24Hz	HDMI: 1024 x 768 @120Hz	X*2	X	2
GF75 Thin 8SC	GTX 1650	-	1	HDMI*1: 4096x2160 @24Hz	HDMI: 1024 x 768 @120Hz	X*2	X	2

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GF Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GF62 8RE GF72 8RE	GTX 1060	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3
GF62 8RD GF72 8RD	GTX 1050Ti	1 (v1.2)	1	HDMI: 3840x2160 @30Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	X	3
GF63 8RD	GTX 1050Ti	-	1	HDMI: 3840x2160 @30Hz	HDMI: 1024x768 @120Hz	X*2	X	2
GF63 8RC	GTX 1050	-	1	HDMI: 3840x2160 @30Hz	HDMI: 1024x768 @120Hz	X*2	X	2

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GL Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GL73 8SF GL63 8SF	RTX 2070	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @60Hz	HDMI: 1920 x 1080 @120Hz mDP: 2560 x 1440 @144Hz	X*2	✔	3
GL73 8SE GL63 8SE	RTX 2060	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840 x 2160 @60Hz	HDMI: 1920 x 1080 @120Hz mDP: 2560 x 1440 @144Hz	X*2	✔	3
GL63 8SC	GTX 1650	1 (v1.2)	1	HDMI: 4096 x 2160 @24Hz mDP: 3840 x 2160 @60Hz	HDMI: 1024 x 768 @120Hz mDP: 2560 x 1440 @144Hz	X*2	✔	3

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GL63 8RC GL73 8RC	GTX 1050	1 (v1.2)	1	HDMI: 3840x2160 @30Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	X	3

*1: A native HDMI 2.0 with 4K resolution display supported monitor is necessary in order to achieve the 4K @60Hz display output.
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GV Series with 8th Gen. Intel Core Processor

Notebook	Graphics	Video Output		External Display Output		3D BD Playback	NVIDIA Surround View*3	Matrix Display (Incl. NB display)
		mDP	HDMI	4Kx2K	120Hz			
GV62 8RE GV72 8RE	GTX 1060	1 (v1.2)	1	HDMI*1: 4096x2160 @60Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	✓	3
GV62 8RD GV72 8RD	GTX 1050Ti	1 (v1.2)	1	HDMI: 3840x2160 @30Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	X	3
GV62 8RC GV72 8RC	GTX 1050	1 (v1.2)	1	HDMI: 3840x2160 @30Hz mDP: 3840x2160 @60Hz	mDP: 2560x1440 @144Hz HDMI: 1024x768 @120Hz	X*2	X	3

*1: A native HDMI 2.0 with 4K resolution display supported monitor is necessary in order to achieve the 4K @60Hz display output.
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