BenQ Adjusting the screen resolution User Manual

BenQ Adjusting the screen resolution User Manual

Contents

Adjusting the screen resolution

Due to the nature of liquid crystal display (LCD) technology, the picture resolution is always fixed. For the best display performance, please set the display to its maximum resolution that is the same with the monitor aspect ratio. This is called “Native Resolution” or maximal resolution that is, the clearest picture. Please refer to the table below for the native resolution of your LCD. Lower resolutions are displayed on a full screen through an interpolation circuit. Image blurring across pixel boundaries can occur with the interpolated resolution depending upon the image type and its initial resolution.

- To take full advantage of LCD technology you should select the native resolution setting of your PC screen

as described below. Be aware that not all PC video cards provide this resolution value. If yours doesn't, check with the video card manufacturer's website for an updated driver for your particular model PC video card which supports this resolution. Software video drivers are often updated and available for new hardware video resolutions. If necessary, you may need to replace and update the PC video card hardware to be able to support the native resolution of the monitor.

- Depending on the operating system on your PC, different procedures should be followed to adjust the screen resolution. Refer to the help document of your operating system for details.

1. **Open Display Properties** and select the **Settings** tab. You can open **Display Properties** by right-clicking on the Windows desktop and selecting **Properties** from the pop-up menu.
2. Use the slider in the **Screen area** section to adjust the screen resolution. Select the recommended resolution (maximum resolution) then click **Apply.**

   If you select some other resolution, be aware that this other resolution is interpolated and may not accurately display the screen image as well as it could do at the native resolution setting.
3. Click **OK** then **Yes.**
4. Close the **DisplayProperties** window.

   If your input source does not provide an image which is the same with the monitor aspect ratio, the displayed image may appear stretched or distorted. To maintain the original aspect ratio, image scaling options can be found in the Display Mode adjustment. See the user manual for more information.

Adjusting the screen refresh rate

You don't have to choose the highest possible refresh rate on an LCD display, because it is not technically possible for an LCD display to flicker. The best results are obtained by using the factory modes already set in your computer. Check next chapter to see the factory modes: Preset display models on page 3.

Depending on the operating system on your PC, different procedures should be followed to adjust the screen resolution. Refer to the help document of your operating system for details.

1. Double click the **Display** icon in **Control Panel.**
2. From the **Display Properties** window, select the **Settings** tab and click the **Advanced** button.
3. Select the **Adapter** tab, and select an appropriate refresh rate to match one of the applicable factory modes as listed in the specification table.
4. Click **Change, OK,** then Yes.
5. Close the **Display Properties** window.

   Adjusting the screen refresh rate 2

Preset display models

Timing support

PC / Video signal support		Input port					
Resolution	Frame frequency (Hz)	DisplayPort (V1.4)		HDMI 2.0		USB-C™	
		PC timing	Video timing	PC timing	Video timing	PC timing	Video timing
640×480	60	v	v	v	v	v	v
640×480	75	v		v		v	
720×400	70	v		v		v	
720×480	60		v		v		v
720×576	50		v		v		v
800×600	60	v		v		v	
800×600	75	v		v		v	
832×624	75	v		v		v	
1024×768	60	v		v		v	
1024×768	75	v		v		v	
1152×870	75	v		v		v	
1280×720	50		v		v		v

1280×720	60	v	v	v	v	v	v
1280×800	60	v		v		v	
1280×1024	60	v		v		v	
1280×1024	75	v		v		v	
1680×1050	60	v		v		v	
1600×900	60	v		v		v	
1920×1080	24		v		v		v
1920×1080	25		v		v		v
1920×1080	30		v		v		v
1920×1080	50		v		v		v
1920×1080	60	v	v	v	v	v	v
1920×1080	100	v	v	v	v	v	v
1920×1080	120	v	v	v	v	v	v
1920×1080	144		v		v		v
2560×1080	60		v		v		v

2560×1080	**100**		**v**		**v**		**v**
2560×1080	**120**		**v**		**v**		**v**
2560×1440	**60**	**v**		**v**		**v**	
2560×1440	**100**						
2560×1440	**120**				**v(*)**		
2560×1440	**144**		**v**				**v**

- To make sure the above timing works, check the compatibility and specifications of your graphic card first.
- To obtain the best image quality, refer to the above table to set the timing and the resolution of the input source.
- (*): Available for game consoles that support 120hz. If your monitor is not supported, contact your local customer service for further assistance.

WQHD (2560×1440) video input

120 Hz 10-bit

Color space	YCbCr 4:2:2									
Max. bit	8 bit					10 bit				
Frame frequency	24, 25, 30	50, 60	100	120	144	24, 25, 30	50, 60	100	120	144
HDMI	v	v	v	v		v (*)	v (*)	v (*)	v (*)	
DisplayPort	v	v	v	v		v (*)	v (*)	v (*)	v (*)	
USB-C™ (DP Alt mode)	v	v	v	v		v (*)	v (*)	v (*)	v (*)	

Color space	YCbCr 4:4:4 / RGB 4:4:4									
Max. bit	8 bit					10 bit				
Frame frequency	24, 25, 30	50, 60	100	120	144	24, 25, 30	50, 60	100	120	144
HDMI	v	v	v	v		v (*)	v (*)	v (*)		
DisplayPort	v	v	v	v		v (*)	v (*)	v (*)	v (*)	
USB-C™ (DP Alt mode)	v	v	v	v		v (*)	v (*)	v (*)	v (*)	

Color space	YCbCr 4:2:0									
Max. bit	8 bit					10 bit				
Frame frequency	24, 25, 30	50, 60	100	120	144	24, 25, 30	50, 60	100	120	144
HDMI	v	v	v	v		v (*)	v (*)	v (*)	v (*)	v (*)
DisplayPort	v	v	v	v		v (*)	v (*)	v (*)	v (*)	v (*)
USB-C™ (DP Alt mode)	v	v	v	v		v (*)	v (*)	v (*)	v (*)	v (*)

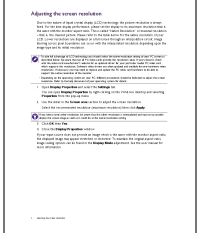
Color space			YCbCr 4:2:0		
Max. bit			12 bit		
Frame frequency	24, 25, 30 50, 60			100	120	144
HDMI	v (*)	v (*)		v (*)	v (*)	
DisplayPort	v (*)	v (*)		v (*)	v (*)	
USB_CTM (DP Alt mode)	v (*)	v (*)		v (*)	v (*)	

The monitor receives 10-bit or 12-bit data and displays 8-bit colors.

144 Hz 8-bit

Color space	YCbCr 4:2:2				
Max. bit	8 bit				
Frame frequency	24, 25, 30	50, 60	100	120	144
HDMI	v	v	v	v	v
DisplayPort	v	v	v	v	v
USB-C™ (DP Alt mode)	v	v	v	v	v

Documents / Resources

	BenQ Adjusting the screen resolution [pdf] User Manual BenQ, Adjusting, screen, resolution