

VP348 Series LCD Monitor

User Guide

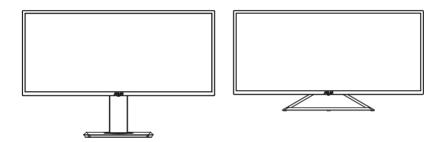




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Say hello to a more sustainable product

IT products are associated with a wide range of sustainability risks throughout their life cycle. Human rights violations are common in the factories. Harmful substances are used both in products and their manufacture. Products can often have a short lifespan because of poor ergonomics, low quality and when they are not able to be repaired or upgraded.

This product is a better choice. It meets all the criteria in TCO Certified, the world's most comprehensive sustainability certification for IT products. Thank you for making a responsible product choice, that help drive progress towards a more sustainable future!

Criteria in TCO Certified have a life-cycle perspective and balance environmental and social responsibility. Conformity is verified by independent and approved verifiers that specialize in IT products, social responsibility or other sustainability issues. Verification is done both before and after the certificate is issued, covering the entire validity period. The process also includes ensuring that corrective actions are implemented in all cases of factory non-conformities. And last but not least, to make sure that the certification and independent verification is accurate, both TCO Certified and the verifiers are reviewed regularly.

Want to know more?

Read information about TCO Certified, full criteria documents, news and updates at **tcocertified.com.** On the website you'll also find our Product Finder, which presents a complete, searchable listing of certified products.

Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



As an Energy Star[®] Partner, our company has determined that this product meets the Energy Star[®] guidelines for energy efficiency.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

Made in China

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 ~ 240V AC.
- The socket-outlet shall be installed near the equipment and shall be easily accessible
- If you encounter technical problems with the monitor, contact a qualified servic er.
- Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains.

WARNING

Usage of other than specified head- or earphones can result in hearing loss due to excessive sound pressures.

Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you MUST follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. ASUS websites

The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to http://www.asus.com

2. Optional documentation

Your product package may include optional documentation that may have been added by your dealer. These documents are not part of the standard package.

Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for our customers to be able to responsibly recycle our products, batteries and other components as well as the packaging materials.

Please go to http://csr.asus.com/english/Takeback.htm for detail recycling information in different region.

1.1 Welcome

Thank you for purchasing the ASUS® LCD monitor!

The latest widescreen LCD monitor from ASUS provides a crisper, broader, and brighter display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the monitor brings you!

1.2 Package contents

Check your package for the following items:

- ✓ LCD Monitor
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ 1x Power Cord
- ✓ 1x DP Cable
- √ 1x HDMI Cable (option)

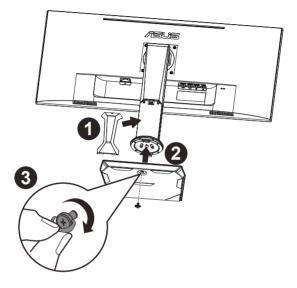


- If any of the above items is damaged or missing, contact your retailer immediately.
- * Also the Replaceable parts required by the TCO Certified.

1.3 Assembling the Base

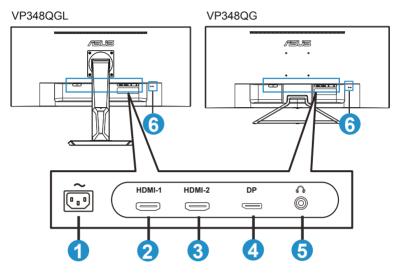
To assemble the base (VP348QGL):

- 1. Place the display flat on a cloth on the table.
- 2. Adjust the monitor to the angle that is most comfortable for you.



1.4 Connect cables

1.4.1 Rear of the LCD monitor

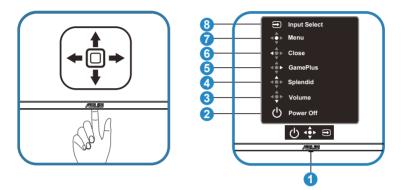


- 1. AC-IN Port
- 2. HDMI-1 Port
- 3. HDMI-2 Port
- 4. Display Port
- 5. Earphone Jack
- 6. Kensington Lock

1.5 Monitor introduction

1.5.1 Using the Controls button

Use the control button on the bottom of the monitor to adjust the monitor settings.



- 1. Power Indicator:
 - The color definition of the power indicator is as the below table.

Status	Description
White	ON
Amber	Standby mode
OFF	OFF

- 2. **b** Power Button:
 - Press this button to turn the monitor on/off. Press any key to turn on the monitor when monitor is power off.
- 3. Volume Button:
 - This is a shortcut key. Default setting is Volume.
- 4. Splendid:
 - This is a shortcut key. Default setting is Splendid.
- 5. GamePlus Button:
 - This is a shortcut key. Default setting is GamePlus.

- GamePlus: The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Crosshair function is specially designed for new gamers or beginners interested in First Person Shooter (FPS) games. To active GamePlus:
 - Press GamePlus Button to enter the GamePlus main menu.
 - Activate Crosshair, Timer, FPS Counter or Display Alignment function.
 - Move the button up/down to select and press to confirm the function needed. Press to go off, and exit.
 - Crosshair/Timer/FPS Counter is movable by pressing 15-way key.



GamePlus-Timer

GamePlus-Crosshair



GamePlus-FPS Counter

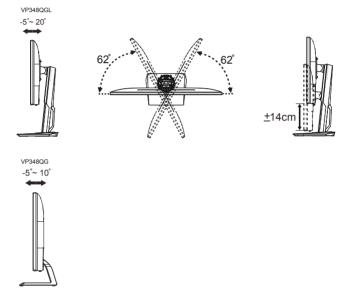


- 6. Close Button
 - Exit the OSD menu.
- 7. Menu Button
 - This is menu hotkey. Select it to open main menu OSD.

- - This is a shortcut key. The default setting is Input Select. Use Input Select hotkey to switch from "HDMI-1", "HDMI-2" or "DisplayPort".

2.1 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from -5° to 20° / -5° to 10° and it allows 62° swivel adjustment from either left or right. You can also adjust the monitor's height within +/- 14 cm.

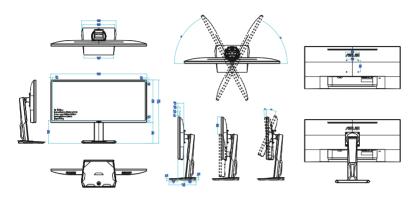




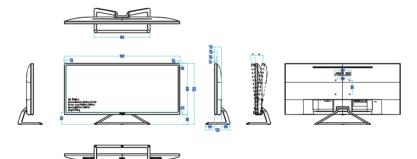
It is normal that the monitor slightly shakes while you adjust the viewing angle.

2.2 Outline dimension

Unit: mm [inch] VP348QGL:



VP348QG:

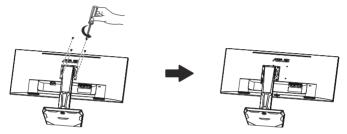


2.3 Detaching the arm/stand (for VESA wall mount)

The detachable stand of this monitor is specially designed for VESA wall mount.

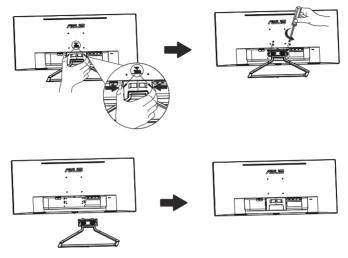
To detach the arm/stand (VP348QGL)

- 1. Remove the covers on where the monitor and the arm meet.
- 2. Remove the four (4) screws securing the arm to the rear of the monitor.
- 3. Detach the stand (arm and base) from the monitor.



To detach the arm/stand (VP348QG)

- 1. Remove the covers on where the monitor and the arm meet.
- 2. Remove the four (4) screws securing the arm to the rear of the monitor.
- 3. Detach the stand (arm and base) from the monitor.

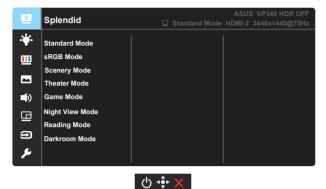




- The VESA wall mount kit (100 x 100 mm) is purchased separately.
- Use only the UL Listed Wall Mount Bracket with minimum weight/load 28.8 kg (Screw size: M4 x 10 mm).

3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure



- 1. Press the Central of 5-way button to display the OSD menu.
- 2. Press the Up and Down keys to switch the options in the menu. When you move from one icon to another, the option name is highlighted.
- 3. To select a highlighted item from the menu, press the Right key or the Central button.
- 4. Press the Up and Down keys to select the desired parameters.
- 5. Press the Right key or the Central button to enter the slide bar, and then use the Up or Down keys (depending on the indicators in the menu) to make changes.
- 6. Press the Left key to return to the previous menu.

3.1.2 OSD Function Introduction

1. Splendid

This function contains eight sub-functions that you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.

S	Splendid	ASUS VP348 HDR OFF
	Standard Mode sRGB Mode Scenery Mode	
	Theater Mode Game Mode	
9 9	Night View Mode Reading Mode Darkroom Mode	
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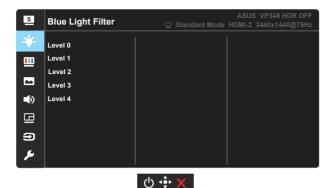
- Standard Mode: This is the best choice for document editing with SPLENDID[™] Video Intelligence Technology.
- **sRGB Mode**: This is the best choice for viewing photos and graphics from PCs.
- Scenery Mode: This is the best choice for scenery photo displaying with SPLENDID[™] Video Intelligence Technology.
- **Theater Mode**: This is the best choice for movie watching with SPLENDID[™] Video Intelligence Technology.
- Game Mode: This is the best choice for game playing with SPLENDID[™] Video Intelligence Technology.
- Night View Mode: This is the best choice for playing dark-scene game or watching dark-scene movie with SPLENDID[™] Video Intelligence Technology.
- Reading Mode : This is the best choice for book reading.
- **Darkroom Mode** : This is the best choice for a weak ambient light environmen.



- In the Standard Mode, the Saturation, SkinTone, Sharpness, and ASCR functions are not user-configurable.
- In the sRGB, the Saturation, Color Temp., SkinTone, Sharpness, Brightness, Contrast and ASCR functions are not user-configurable.
- In the Reading Mode, the Saturation, SkinTone, Sharpness, ASCR, contrast, and Color Temp functions are not user-configurable.

2. Blue Light Filter

Adjust the energy level of blue light emitted from LED backlight.



- Level 0: No change.
- Level 1~4: The higher the level, the more blue light will be reduced.
 - When Blue Light Filter is activated, the default settings of Standard Mode will be automatically imported.
 - Between Level 1 to Level 3, the Brightness function is user-configurable.
 - Level 4 is optimized setting. It is compliance with TUV Low Blue Light Certification. The Brightness function is not user-configurable.

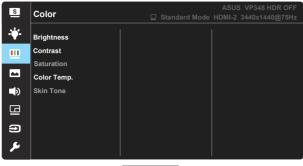


Please refer to the following to alleviate eye strains:

- Users should take some time away from the display if working for long hours. It is advised to take short breaks (at least 5 mins) after around 1 hour of continuous working at the computer. Taking short and frequent breaks is more effective than a single longer break.
- To minimize eye strain and dryness in your eyes, users should rest the eye periodically by focusing on objects that are far away.
- Eye exercises can help to reduces eye strain. Repeat these exercises often. If eye strain continues please consult a physician. Eye exercises: (1) Repeating look up and down (2) Slowly roll your eyes (3) Move your eyes diagonal.
- High energy blue light may lead to eye strain and AMD (Age-Related Macular Degeneration). Blue light Filter to reduce 70% (max.) harmful blue light to avoiding CVS (Computer Vision Syndrome).

3. Color

Select the image color you like from this function.





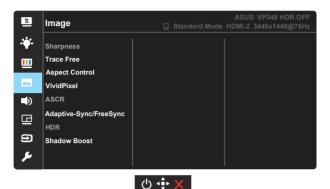
- Brightness: The adjusting range is from 0 to 100.
- Contrast: The adjusting range is from 0 to 100.
- Saturation: The adjusting range is from 0 to 100.
- Color Temp.: Contains three preset color modes (Cool, Normal, Warm) and User Mode.
- Skin Tone: Contains three color modes including Reddish, Natural, and Yellowish.



 In the User Mode, colors of R (Red), G (Green), and B (Blue) are userconfigurable; the adjusting range is from 0 ~ 100.

4. Image

You can adjust the image Sharpness, Trace Free, Aspect Control, VividPixel, ASCR, Adaptive-Sync/FreeSync, HDR and Shadow Boost from this main function.



- **Sharpness**: Adjusts the picture sharpness. The adjusting range is from 0 to 100.
- **Trace Free**: Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100.
- Aspect Control: Adjusts the aspect ratio to "Full", "4:3".
- **VividPixel**: ASUS Exclusive Technology that brings lifelike visuals for crystal-clear and detail-oriented enjoyment. The adjusting range is from 0 to 100.
- ASCR: Select ON or OFF to enable or disable dynamic contrast ratio function.
- Adaptive-Sync/FreeSync: It can allow a Adaptive-Sync/FreeSync supported graphics source to dynamically adjust display refresh rate based on typical content frame rates for power efficient, virtually stutter free and low-latency display update.
- HDR: High Dynamic Range. Contains two HDR modes (ASUS Cinema HDR, ASUS Gaming HDR).
- Shadow Boost: Dark color enhancement adjust monitor gamma curve to enrich the dark tones in an image making dark scenes and objects much easier be found.



4:3 is only available when input resolution is not 3440x1440.

5. Sound

Adjust the sound settings to your preference.



- Volume: Adjusts the output volume level.
- Mute: Mute the output volume.
- Source: Adjusts audio source to "main source" or "sub source".

6. PIP/PBP Setting

The PIP/PBP Setting allows you to open up another sub-window connected from another video source besides the main-window from your original video source.



By activating this function, this monitor displays two pictures from one or two video sources.

- PIP/PBP Mode: Selects PIP or PBP function, or turn it off.
- **PIP/PBP Source:** Selects the video input source among, "HDMI-1", "HDMI-2" or "DisplayPort".
- Color Setting: Set Splendid mode for each PBP window.
- PIP Size: Adjust the PIP size to "Small", "Middle", or "Large".
- **Position:** Adjusts the position of PIP sub-window to "Right-Top", "Left-Top", "Right-Bottom" or "Left-Bottom".

PIP/PBP		Sub source		
		HDMI-1	HDMI-2	DP
main source	HDMI-1			
	HDMI-2			
	DP			

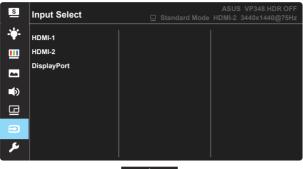


PIP/PBP function is disabled when main or sub source is HDR video.

- Turn off PIP/PBP mode automatically when main or sub source is HDR video.
- PIP/PBP will be disable when monitor is resume to operating from power saving.

7. Input Select

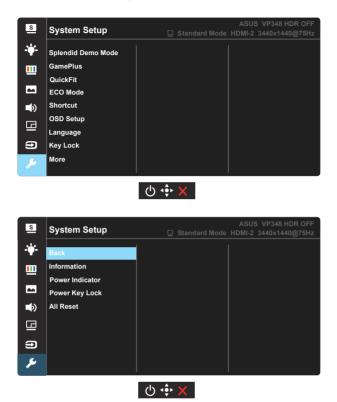
Select the input source from HDMI-1, HDMI-2, DisplayPort input signal.





8. System Setup

Adjusts the system configuration.



- Splendid Demo Mode: Activate the demo mode for the Splendid function.
- **GamePlus**: Turn on/off GamePlus function. GamePlus menu is at page 1-6.
- **QuickFit**: The QuickFit function contains three patterns: (1) Grid (2) Paper size (3) Photo size.
 - Grid pattern: Facilitates designers and users to organize content and layout on one page and achieve a consistent look and feel.
 - Paper size: Provides users to view their documents in real size on the screen.
 - Photo size: Provides photographers and other users to accurately view and edit their photos in real size on the screen.
- ECO Mode: Activate the ecology mode for power saving.

- Shortcut: Selecting this option allows you to set shortcut key.
- OSD Setup: Adjusts the OSD Timeout, DDC/CI, and Transparency of the OSD screen.
- Language: Select OSD language. The selections are: English, French, German, Spanish, Italian, Dutch, Russian, Poland, Czech, Croacia, Hungary, Romania, Portugal, Turkey, Simplified Chinese, Traditional Chinese, Japanese, Korean, Persian, Thai, and Indonesian.
- **Key Lock**: Disable all key functions. Pressing the down button for more than five seconds to disable key lock function.
- More: Return the next page of System Setting.
- Back: Return the previous page of System Setting.
- Information: Displays the monitor information.
- Power Indicator: Turn the power LED indicator on/off.
- **Power Key Lock**: To disable / enable power key.
- All Reset: Selects "Yes" to revert all settings to the factory default mode.

3.2 Specifications

Model	VP348QGL	VP348QG
Panel Size	34"W (86.7 cm)	
Max. Resolution	3440 x 1440	
Brightness (Typ.)	350 cd/m ²	
Intrinsic Contrast Ratio (Typ.)	3000:1	
Viewing Angle (CR>10)	178°(V) /178°(H)	
Display Colors	1.073G	
Response Time	4ms (G To G)	
Satellite Speaker	2W x 2 stereo	
Sound from HDMI	Yes	8
HDMI input	HDMI2.0*2	
DP input	Yes	
PIP/PBP	Yes	
Power ON Consumption	< 38 W*	
Note	*Based on Energy Star 7.0 standard	
Chassis Colors	Black	
Power saving mode	< 0.5W	
Power off mode	< 0.5W	
Tilt	-5° ~ +20°	-5° ~ +10°
Phys. Dimension with stand	827.6 x 546.54 x 233.41 mm (VP348QGL)	
(WxHxD)	827.6 x 437.5 x 174.8 mm (VP348QG)	
Phys. Dimension without stand (WxHxD)	827.6 x 367.3 x 51.26 mm	
Box Dimension (WxHxD)	922 x 639 x 224 mm (VP348QGL)	
	922 x 538 x 236 mm (VP348QG)	
Net Weight (Esti.)	9.59kg	6.86kg
Gross Weight (Esti.)	12.59kg	10.4kg
Voltage Rating	AC 100~240V(Built-in)	

3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	 Press the O button to check if the monitor is in the ON mode. Check if the power cord is properly connected to the monitor and the power outlet. Check Power Indicator function in main menu OSD. Select "ON" to turn on power LED.
The power LED lights amber and there is no screen image	 Check if the monitor and the computer are in the ON mode. Make sure the signal cable is properly connected the monitor and the computer. Inspect the signal cable and make sure none of the pins are bent. Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	 Adjust the Contrast and Brightness settings via OSD.
Screen image bounces or a wave pattern is present in the image	 Make sure the signal cable is properly connected to the monitor and the computer. Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	 Inspect the signal cable and make sure that none of the pins are bent. Perform Reset via OSD. Adjust the R/G/B color settings or select the Color Temperature via OSD.
No sound or sound is low	 Make sure the audio cable is properly connected to the monitor. Adjust the volume settings of both your monitor and computer. Make sure the computer sound card driver is properly installed and activated. Make sure the audio source is correct on the OSD.

3.4 Supported Timing List

PC Supported Primary Timing

Resolution	Refresh Rate	Horizontal Frequency
640x480	60Hz	31.469
720x480	60Hz	31.469
720x576	50Hz	31.25
800x600	56Hz	35.156
800x600	60Hz	37.879
1024x768	60Hz	48.363
1280x720	50Hz	37.5
1280x720	60Hz	44.772
1280x800	60Hz	49.33
1280x960	60Hz	60
1280x1024	60Hz	63.981
1440x480	60Hz	29.67
1440x576	50Hz	35.544
1440x900	60Hz	55.935
1680x1050	60Hz	65.29
1720x1440	60Hz	88.771
1920x1080	50Hz	55.245
1920x1080	60Hz	67.5
2560x1440	60Hz	88.803
3440x1440	60Hz	88.819
3440x1440	75Hz	111.577

* The modes not listed in the above tables may not be supported. For optimal resolution, we recommend that you choose a mode listed in the above tables.