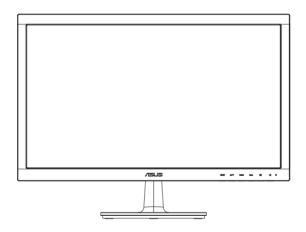


**VS228/VS238**/**VS247** Series

**LCD Monitor** 

# **User Guide**



Downloaded from www.vandenborre.be

Downloaded fr

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Notices

Federal Communications Commission Statement

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

The cause harmful interference, and

The cause harmful interference, and

The cause harmful interference, and

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.

iii

# Safety information

- afety information

  Before setting up the monitor, carefully read all the documentation that th. W. W. Vandenborre, be 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 extention 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.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.

iv

Care & Cleaning

- are & Cleaning

  Before you lift or reposition your monitor, it is better to disconnect the
- Cleaning, Turn your monitor off and unplug the power cord. Clean the
- 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.

\*\*\*The http://www.asus.com\*\*

\*\*The http://www.asus.com\*\*

\*\*

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

νi

1.1 Welcome!
Thank you for purchasing the ASUS® VS228/VS238/VS247 Series CD monitor!

D WWW. Nandenborre.be 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 VS228/VS238/VS247 Series brings you!

# **Package contents**

Check your VS228/VS238/VS247 Series LCD monitor package for the following items:

- LCD monitor
- Monitor base
- Quick start guide
- √ 1 x Power cord
- √ 1 x VGA cable
- √ 1 x DVI cable (Only for some models)
- √ 1 x Warranty card



If any of the above items is damaged or missing, contact your retailer immediately.

To assemble the monitor base:

Assembling the monitor base ssemble the monitor base:

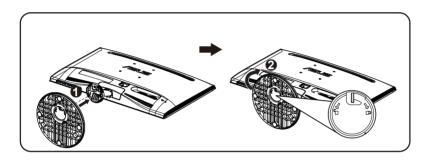
Connect the base with the arm of monitor and turn clockwise. A clickwindicates that the base has been connected successfully.

The angle that is most comfortable for you.

2.



prevent damage to the monitor.



# **Connecting cables**

## To connect cables:

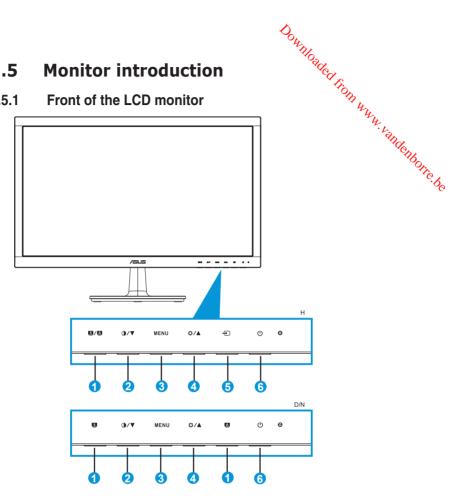
Connect the cables you need based on chapter 1.5.2, page1-5.



1-2

## 1.5 Monitor introduction

## 1.5.1 Front of the LCD monitor



## S / A.S. A Button: 1.

- Automatically adjust the image to its optimized position, clock, and phase by long pressing this button for 2-4 seconds (for VGA mode only).(S / A,A)
- Use this hotkey to switch among six video preset modes (Scenery, Standard, Theater, Game, Night View, and sRGB Mode) with SPLENDID™ Video Enhancement Technology.Exit the OSD menu or go back to the previous menu as the OSD menu is active. (S / A,S)

## **①**/▼ Button: 2.

- Press this button to decrease the value of the function selected or move to the next fuction.
- This is also a hotkey for contrast adjustment.

### 3 MENU Button:

- U Button:
  Press this button to enter the OSD menu.
  Press this button to enter/select the icon (function) highlighted while the OSD is activated.

  Value of the function selected

## み/▲ Button: 4.

- This is also a hotkey for brightness adjustment.

## 5. Input Select Button:

- This button is available for model VS228HR / VS238HR / VS247HR / VS247HV only.
- Use this hotkey to switch among VGA, DVI, or HDMI inputs.

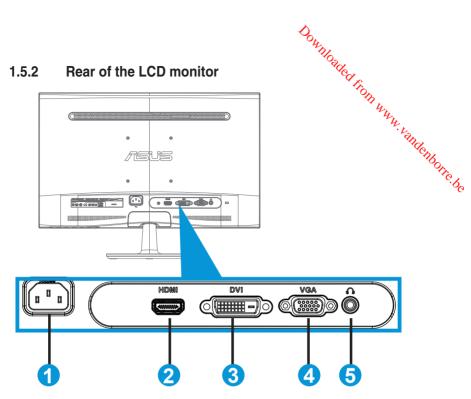
### O Power Button/Power Indicator: 6.

- Press this button to turn the monitor on/off.
- The color definition of the power indicator is as the table below.

Status	Description
Blue	ON
Amber	Standby mode
OFF	OFF

1-4

## 1.5.2 Rear of the LCD monitor



- 1. AC-In
- 2. HDMI-In (Available for model VS228HR, VS238HR, VS247HR, VS247HV only)
- DVI-In 3. (Available for model VS228NE/HR, VS238NR/HR, VS247NR/HR/HV only)
- VGA-In 4.
- 5. Earphone-Out (Available for model VS228HR, VS238HR, VS247HR, VS247HV only)

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

The detachable stand of the VS228/VS238/VS247 Series LCD monitor to vandenbones specially designed for VESA wall mount.

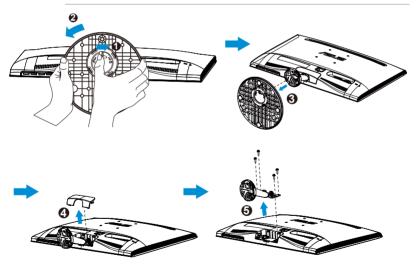
\*\*Tand:\*\*

\*\*Tand\*\*

- 2. Detach the base from the monitor.
- 3 Use your fingers gently pull away the plate that covers the stand neck. Use a screwdriver to remove the four screws that secure the stand to the monitor.
- Detach the stand from the monitor



- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.
- Hold the stand of the monitor while removing the screws.





- The VESA wall mount kit (100 x 100 mm) is purchased separately.
- Use only the UL Listed Wall Mount Bracket with minimum weight/ load according to the model listed in the specification table (Screw size: M4 x 10 mm).

2-1 Chapter 2: Setup

# 2.2

- 2 Adjusting the monitor

  For optimal viewing, we recommend that you look at the full face of the 2 Adjusting the monitor

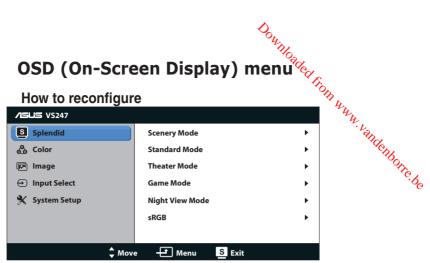
  For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.

  \*\*Taylor of the monitor from falling while changing its \*\*Taylor of the monitor falling wh
- Hold the stand to prevent the monitor from falling while changing its
- You can adjust the monitor's angle from -5° to 20°.



## 3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure



- Press the [MENU] button to activate the OSD menu. 1.
- 2. Press ▼ and ▲ to navigate through the functions. Highlight and activate the desired function by pressing the [MENU] button. If the function selected has a sub-menu, press ▼ and ▲ again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the [MENU] button.
- 3. Press ▼ and ▲ to change the settings of the selected function.
- To exit the OSD menu, press the button. Repeat step 2 and step 3 4. to adjust any other function.

## 3.1.2 OSD Function Introduction

## 1. **Splendid**

This function contains six 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.



**Scenery Mode**: This is the best choice for scenery photo displaying with SPLENDID™ Video Enhancement.

- Standard Mode: This is the best choice for document editing with SPLENDID™ Video Enhancement.
- Theater Mode: This is the best choice for movie watching with h WW. Vandenborre, be SPLENDID™ Video Enhancement.
- Game Mode: This is the best choice for game playing with SPLENDID™ Video Enhancement.
- Night View Mode: This is the best choice for playing darkscene game or watching movie with SPLENDID™ Video Enhancement.
- **sRGB**: This is the best choice for viewing photos and graphics from PCs.

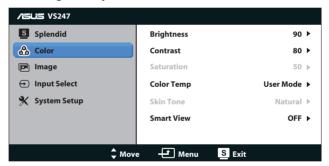


In the Standard Mode, the Saturation, Skin Tone, Sharpness, and **ASCR** functions are not user-configurable.

In the sRGB, the Brightness, Contrast, Saturation, Color Temp., Skin Tone, Sharpness, and ASCR functions are not userconfigurable.

### 2. Color

Select the image color you like from this function.



- Brightness: The adjusting range is from 0 to 100. The ☆ button is also a hotkey to activate this function.
- **Contrast**: The adjusting range is from 0 to 100. The **①** button is also a hotkey to activate this function.
- **Saturation**: The adjusting range is from 0 to 100.
- Color Temp.: Contain three preset color modes (Cool, Normal, Warm) and one User Mode.
- Skin Tone: Contain three color modes including Reddish, Natural, and Yellowish.
- **Smart View**: Enable a clearer visibility after tilted the screen.



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

## 3.

Image
You can adjust the image Sharpness, Aspect Control, Position (VGA only), and Focus (VGA only) from this main function.

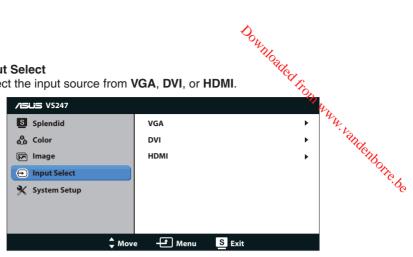


- **Sharpness**: Asiust the picture sharpness. The adjusting range is from 0 to 100. (Only available for selecting "Standard Mode" in Splendid menu.)
- **Trace Free**: Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100. (Available for model VS247HR only)
- Aspect Control: Adjust the aspect ratio to "Full", "4:3", or "Over Scan". (The "Over Scan" ratio is only available for HDMI input.)
- **ASCR**: Select ON or OFF to enable or disable dynamic contrast ratio function. (ASCR: ASUS Smart Contrast Ratio, Disabled at "Standard Mode".)
- Position: Adjust the horizontal postition (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100. (Only available for VGA input.)
- Focus: Reduce Horizonal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100. (Only available for VGA input.)

3-3

4. **Input Select** 

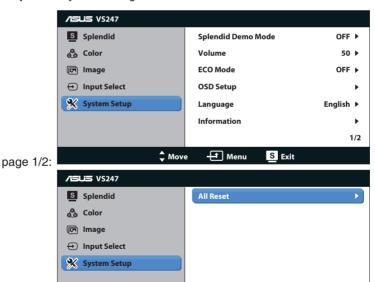
Select the input source from VGA, DVI, or HDMI.



- DVI: Available for model VS228NE/HR, VS238NR/HR, VS247NR/HR/HV only.
- HDMI: Available for model VS228HR, VS238HR, VS247HR, VS247HV only.

## 5. **System Setup**

Adjust the system configuration.



**→** Menu

S Exit

page 2/2:

Splendid Demo Mode: Activate the demo mode for the Splendid function.

**♣** Move

2/2

- Volume: Adjust the earphone output volume level. The
- adjusting range is its....
  VS238HR, VS247HR, VS247HV only)

  ECO Mode: Activate the ecology mode for power saving. (Surper gray levels may not be distinguished if ECO is ON. Its brightness and the contrast Ratio to 100.)

  The contrast Ratio to 100.)

  The contrast Ratio to 100.)

  The contrast Ratio to 100.
- of the OSD screen.
- Language: Select OSD language. The selections are English, French, German, Spanish, Italian, Dutch, Russian, Traditional Chinese, Simplified Chinese, and Japanese.
- **Information**: Display the monitor information of Input Port, Resolution, H-freq., V-freq, and Model Name.
- All Reset: Set to "Yes" to revert all settings to the factory default status.

3-5

# 3.2 Specifications

		<u>ئ</u>	
3.2 Specificat	ions	Willoaded fic	WWW. vandenborre.be
Model	VS228DE/NE	VS228DR/HR	8 4 <sub>1</sub>
Panel Size	21.5'	'W(54.6 cm)	4.
Max. Resolution	1920	x 1080 (FHD)	ande
Backlight Tech.	LED Back	dight Technology	Albo,
Brightness (Typ.)	200cd/m <sup>2</sup>	250cd/m <sup>2</sup>	Tre. b.
Intrisinc Contrast Ratio (Typ.)	600:1	1000:1	
Viewing Angle (CR=10)	≥90°(H) / ≥65°(V)	≥170°(H) / ≥160°(V)	]
Display Colors		16.7 M	
Response Time		5 ms	
Earphone Output	No	VS228DR: No VS228HR: Yes	
Sound from HDMI	No	VS228DR: No VS228HR: Yes	
HDMI input (HDMI 1.3)	No	VS228DR: No VS228HR: Yes	
DVI input	VS228DE: No VS228NE: Yes	VS228DR: No VS228HR: Yes	
D-Sub input	Yes		1
Power Consumption	Power ON < 21.1W*		1
Note	* Based on En	ergy Star 6.0 standard	1
Power Saving Mode		< 0.5 W	
Power OFF Mode		< 0.5 W	
Tilt	-5° ~ +20°		
VESA Wall Mounting	Yes (10	Omm x 100mm)	
Phys. Dimension (WxHxD)	514 x 3	386 x 200 mm	1
Box Dimension (WxHxD)	566 x 443 x 130 mm		1
Net Weight (Esti.)	3.8 kg		
Gross Weight (Esti.)	5.9 kg		
Voltage Rating	AC 100~240V(Built-in)		]

"Noa	
VOCCOUR	
VS238NH cm) (FHD) ************************************	
(FHD)	
echnology	an
n²	Tens
	90.

Model	VS238HR	VS238NR
Panel Size	23"W(58.4 cm)  1920 x 1080 (FHD)  LED Backlight Technology	
Max. Resolution	1920 x	1080 (FHD)
Backlight Tech.	LED Backl	ight Technology
Brightness (Typ.)	25	60cd/m <sup>2</sup>
Intrisinc Contrast Ratio (Typ.)	1	000:1
Viewing Angle (CR=10)	≧ 170°(ŀ	H) / ≧160°(V)
Display Colors	1	6.7 M
Response Time		5 ms
Earphone Output	Yes	No
Sound from HDMI	Yes	No
HDMI input (HDMI 1.3)	Yes	No
DVI input	Yes	
D-Sub input	Yes	
Power Consumption	Power ON < 22 W*	
Note	* Based on Energy Star 6.0 standard	
Power Saving Mode	< 0.5 W	
Power OFF Mode	< 0.5 W	
Tilt	-5° ~ +20°	
VESA Wall Mounting	Yes (100mm x 100mm)	
Phys. Dimension (WxHxD)	552 x 400 x 200 mm	
Box Dimension (WxHxD)	608 x 460 x 130 mm	
Net Weight (Esti.)	3.4 kg	
Gross Weight (Esti.)	Ę	5.8 kg
Voltage Rating	AC 100~	240V(Built-in)

7/02	
VS247 NR (FOIL) (FHD) (F	
cm) Otto	
FHD)	Ly.
hnology	·Van
	'Venb
	Otte
60°(V)	.%

Model	VS247HR/HV	VS247NR V(59.9 cm)	
Panel Size	23.6"W(59.9 cm)		
Max. Resolution	1920 x 1080 (FHD)		
Backlight Tech.	LED Backli	ight Technology	
Brightness (Typ.)	25	iOcd/m <sup>2</sup>	
Intrisinc Contrast Ratio (Typ.)	1	000:1	
Viewing Angle (CR=10)	≧170°(⊦	H) / ≧160°(V)	
Display Colors	1	6.7 M	
Response Time	VS247HR: 2 ms(G to G) VS247HV: 5 ms	5 ms	
Earphone Output	Yes	No	
Sound from HDMI	Yes	No	
HDMI input (HDMI 1.3)	Yes	No	
DVI input	Yes		
D-Sub input	Yes		
Power Consumption	Power ON < 22.7 W*		
Note	* Based on Energy Star 6.0 standard		
Power Saving Mode	< 0.5 W		
Power OFF Mode	< 0.5 W		
Tilt	-5° ~ +20°		
VESA Wall Mounting	Yes (100mm x 100mm)		
Phys. Dimension (WxHxD)	562 x 411 x 200 mm		
Box Dimension (WxHxD)	618 x 469 x 130 mm		
Net Weight (Esti.)	4.4 kg		
Gross Weight (Esti.)	6.8 kg		
Voltage Rating	AC 100~240V(Built-in)		

# Dougloaded fr

# 3.3 Troubleshooting (FAQ)

Problem	Possible Solution	
Power LED is not ON	<ul> <li>Press the O button to check if the monitor is in the ON mode.</li> <li>Check if the power cord is properly connected to the monitor and the power outlet.</li> </ul>	Sandenborre.
The power LED lights amber and there is no screen image	<ul> <li>Check if the monitor and the computer are in the ON mode.</li> <li>Make sure the signal cable is properly connected the monitor and the computer.</li> <li>Inspect the signal cable and make sure none of the pins are bent.</li> <li>Connect the computer with another available monitor to check if the computer is properly working.</li> </ul>	re,
Screen image is too light or dark	Adjust the Contrast and Brightness settings via OSD.	
Screen image is not centered or sized properly	<ul> <li>Press the  button for two seconds to automatically adjust the image.</li> <li>Adjust the H-Position or V-Position settings via OSD.</li> </ul>	
Screen image bounces or a wave pattern is present in the image	<ul> <li>Make sure the signal cable is properly connected to the monitor and the computer.</li> <li>Move electrical devices that may cause electrical interference.</li> </ul>	
Screen image has color defects (white does not look white)	<ul> <li>Inspect the signal cable and make sure that none of the pins are bent.</li> <li>Perform Reset via OSD.</li> <li>Adjust the R/G/B color settings or select the Color Temperature via OSD.</li> </ul>	
Screen image is blurry or fuzzy	<ul> <li>Press the  button for two seconds to automatically adjust the image (for VGA mode only).</li> <li>Adjust the Phase and Clock settings via OSD.</li> </ul>	
No sound or sound is low (For model VS228HR, VS238HR, VS247HR, VS247HV)	<ul> <li>Make sure the audio cable is properly connected to the monitor.</li> <li>Adjust the volume settings of both your monitor and computer.</li> <li>Make sure the computer sound card driver is properly installed and activated.</li> </ul>	

3-9 Chapter 3: General Instruction

# 3.4

Ç.		Timing I	Do <sub>waloao</sub>	y.		
) VE04	Supported Timing List					
VESA / IBM Modes Support Timing (D-SOB, DVI-D, HDMI Inputs)						
	Resolution	Refresh Rate	Horizontal Frequency	44.		
	640 x 350	70Hz	31.469KHz	4.4		
	640 x 480	60Hz	31.469KHz	an		
	640 x 480	67Hz	35KHz	Cox		
	640 x 480	75Hz	37.5KHz	OOx		
	720 x 400	70Hz	31.469KHz	Te,		
	800 x 600	56Hz	35.156KHz	%		
	800 x 600	72Hz	48.077KHz			
	800 x 600	75Hz	46.875KHz			
	848 x 480	60Hz	31.02KHz			
	1024 x 768	60Hz	48.363KHz			
	1024 x 768	70Hz	56.476KHz			
	1024 x 768	75Hz	60.023KHz			
	1152 x 864	75Hz	67.5KHz			
	1280 x 720	60Hz	44.772KHz			
	1280 x 800	60Hz	49.702KHz			
	1280 x 960	60Hz	60KHz			
	1280 x 1024	60Hz	63.981KHz			
	1280 x 1024	75Hz	79.976KHz			
	1366 x 768	60Hz	47.712KHz			
	1440 x 900	60Hz	55.935KHz			
	1680 x 1050	60Hz	65.29KHz			
	1680 x 1050	60Hz	64.674KHz			
	1920 x 1080	60Hz	67.5KHz			
	1920 x 1080	60Hz	66.587KHz			

HDMI 1.3 CEA-861 Formats Supported Timing (for HDMI input)

1:0 OLA corronnats capported rinning (for ribinin				
Resolution	Refresh Rate	Horizontal Frequency		
640 x 480P	59.94 / 60Hz	31.469 / 31.5KHz		
720 x 480P	59.94 / 60Hz	31.469 / 31.5KHz		
720 x 576P	50Hz	31.25KHz		
1280 x 720P	50Hz	37.5KHz		
1280 x 720P	59.94 / 60Hz	44.955 / 45KHz		
1440 x 480P	59.94 / 60Hz	31.469 / 31.5KHz		
1440 x 576P	50Hz	31.25KHz		
1920 x 1080i	50Hz	28.125KHz		
1920 x 1080i	59.94 / 60Hz	33.716 / 33.75KHz		
1920 x 1080P	50Hz	56.25KHz		
1920 x 1080P	59.94 / 60Hz	67.433 / 67.5KHz		

<sup>\*</sup>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.