



## **LCD Monitor**

ENGLISH

## ProLite T2454MSC

Thank you very much for choosing the iiyama LCD monitor.

We recommend that you take a few minutes to read this comprehensive manual carefully before installing and switching on the monitor. Please keep this manual in a safe place for your future reference.

## iiyama | Servicecard





## Dear user, we congratulate you on the purchase of your iiyama LCD.

For details on warranty and locally used pixel policies that apply directly after installation of your product please check the iiyama website.

## To report a fault, please contact your local support centre found at www.iiyama.com/service

Things to check before you call the iiyama information line
if the power cable is connected securely and turned on?
if the display has been turned on?
if the signal cable is connected securely and the correct input selected?
if the computer has been restarted with the display connected?
if the graphics card is correctly installed with the latest drivers possible?
if the correct native resolution has been selected via 'Display Properties'?
If the R/G/B signal configuration is correct?
if the displays On Screen Menu is shown?
if the correct brightness and contrast settings have been set?
if given display tolerances and compatibility have been considered?
if via the On Screen Menu you have performed a Factory Reset/Recall?

## Before reporting the screen defect, please prepare the following information/evidence:

model number \*

purchase receipt and serial number \*

name and address for collection

telephone/fax number, for availability during the day

convenient collection date (date, time)

short description of the defect

#### Important Note:

If there is no fault found in the collected equipment after inspection, the transferring party shall incur charges for transport and administration.

If you have checked all of the above and there is still no picture, call our information line for assistance in your country.

\* see the identification plate on the back of the case.



## **CE MARKING DECLARATION OF CONFORMITY**

This LCD monitor complies with the requirements of the EC/EU Directive 2014/30/EU "EMC Directive", 2014/35/EU "Low Voltage Directive", 2009/125/EC "ErP Directive" and 2011/65/EU "RoHS Directive"

The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.

IIYAMA CORPORATION: Wijkermeerstraat 8, 2131 HA Hoofddorp, The Netherlands

Model No · PI T2454M



We recommend recycling of used product. Please contact your dealer or iiyama service center. Recycle information is obtained via the Internet, using the address: http://www.iiyama.com

You can access the Web page of different countries from there.

■ All trademarks used in this user manual are the property of their respective owners.

We reserve the right to change specifications without notice.

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## FOR YOUR SAFETY

## SAFETY PRECAUTIONS

### WARNING

### STOP OPERATING THE MONITOR WHEN YOU SENSE TROUBLE

If you notice any abnormal phenomena such as smoke, strange sounds or fumes, unplug the monitor and contact your dealer or iiyama service center immediately. Further use may be dangerous and can cause fire or electric shock.

#### NEVER REMOVE THE CABINET

High voltage circuits are inside the monitor. Removing the cabinet may expose you to the danger of fire or electric shock.

### DO NOT PUT ANY OBJECT INTO THE MONITOR

Do not put any solid objects or liquids such as water into the monitor. In case of an accident, unplug your monitor immediately and contact your dealer or iiyama service center. Using the monitor with any object inside may cause fire, electric shock or damage.

#### **INSTALL THE MONITOR ON A FLAT, STABLE SURFACE**

The monitor may cause an injury if it falls or is dropped.

#### DO NOT USE THE MONITOR NEAR WATER

Do not use where water may be splashed or spilt onto the monitor as it may cause fire or electric shock.

#### **OPERATE UNDER THE SPECIFIED POWER SUPPLY**

Be sure to operate the monitor only with the specified power supply. Use of an incorrect voltage will cause malfunction and may cause fire or electric shock.

#### **PROTECT THE CABLES**

Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables. If damaged, the cables may cause fire or electric shock.

#### **ADVERSE WEATHER CONDITIONS**

It is advisable not to operate the monitor during a heavy thunder storm as the continual breaks in power may cause malfunction. It is also advised not to touch the plug in these circumstances as it may cause electric shock.

#### CAUTION

### **INSTALLATION LOCATION**

Do not install the monitor where sudden temperature changes may occur, or in humid, dusty or smoky areas as it may cause fire, electric shock or damage. You should also avoid areas where the sun shines directly on the monitor.

#### DO NOT PLACE THE MONITOR IN A HAZARDOUS POSITION

The monitor may topple and cause injury if not suitably located. Please also ensure that you do not place any heavy objects on the monitor, and that all cables are routed such that children may not pull the cables and possibly cause injury.

### MAINTAIN GOOD VENTILATION

Ventilation slots are provided to keep the monitor from overheating. Covering the slots may cause fire. To allow adequate air circulation, place the monitor at least 10 cm (or 4 inches) from any walls. Do not remove the tilt stand when operating the monitor. Ventilation slots on the back of the cabinet will be blocked and the monitor may overheat if the stand is removed. This may cause fire or damage. Operating the monitor on its back, side, upside down or on a carpet or any other soft material may also cause damage.

#### DISCONNECT THE CABLES WHEN YOU MOVE THE MONITOR

When you move the monitor, turn off the power switch, unplug the monitor and be sure the signal cable is disconnected. If you do not disconnect them, it may cause fire or electric shock.

#### **UNPLUG THE MONITOR**

If the monitor is not in use for a long period of time it is recommended that it is left unplugged to avoid accidents.

#### HOLD THE PLUG WHEN DISCONNECTING

To disconnect the power cable or signal cable, always pull it by the plug. Never pull on the cable itself as this may cause fire or electric shock.

#### DO NOT TOUCH THE PLUG WITH WET HANDS

Pulling or inserting the plug with wet hands may cause electric shock.

#### WHEN YOU INSTALL THE MONITOR ON YOUR COMPUTER

Be sure the computer is strong enough to hold the weight of the monitor, otherwise, you may damage your computer.

#### **REMARK FOR 24/7 USAGE**

This product is not specifically designed for 24/7 usage in all environments.

### **OTHERS**

#### **ERGONOMIC RECOMMENDATIONS**

To eliminate eye fatigue, do not operate the monitor against a bright background or in a dark room. For optimal viewing comfort, the monitor should be just below eye level and 40-60 cm (16-24 inches) away from your eyes. When using the monitor over a prolonged time, a ten minute break every hour is recommended as looking at the screen continuously can cause eye strain.

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## SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitors and do not indicate a problem.

- **NOTE** When you first turn on the LCD monitor, the picture may not fit in the display area because of the type of computer that is used. In this case, adjust the picture position to the correct position.
  - You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
  - Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen can be recovered slowly by changing the image or turning off the Power Switch for some hours.

## **CUSTOMER SERVICE**

**NOTE** If you have to return your unit for service and the original packaging has been discarded, please contact your dealer or iiyama service center for advice or replacement packaging.

## CLEANING

- WARNING If you drop any materials or liquids such as water into the monitor when cleaning, unplug the power cable immediately and contact your dealer or iiyama service center.
- **CAUTION** For safety reasons, turn off the power switch and unplug the monitor before you clean it.
- NOTE
- To protect the LCD panel, do not scratch or rub the screen with a hard object.
- Never use any of the following strong solvents. These will damage the cabinet and the LCD screen.

Thinner	Spray-type cleaner
Benzine	Wax
Abrasive cleaner	Acid or Alkaline solvent

- Touching the cabinet with any product made from rubber or plastic for a long time may cause degeneration or loss of paint on the cabinet.
- **CABINET** Stains can be removed with a cloth lightly moistened with a mild detergent solvent. Then wipe the cabinet with a soft dry cloth.
- LCD Periodic cleaning with a soft dry cloth is recommended.
- **SCREEN** Don't use tissue paper etc. because these will damage the LCD screen.

## **BEFORE YOU OPERATE THE MONITOR**

## FEATURES

- Supports Resolutions up to 1920 × 1080
- High Contrast 1000:1 (Typical: with Touch panel) / Brightness 250cd/m<sup>2</sup> (Typical)
- Digital Character Smoothing
- Automatic Set-up
- Stereo Speakers
   2 × 2W Stereo Speakers
- Plug & Play VESA DDC2B Compliant Windows<sup>®</sup> 7/8.1/10 Compliant
- Power Management (VESA DPMS Compliant)
- VESA Mounting Standard (100mm×100mm) Compliant
- Keyhole for Security Lock
- 10point Touch

## CHECKING THE CONTENTS OF THE PACKAGE

The following accessories are included in your package. Check to see if they are enclosed with the monitor. If anything is missing or damaged, please contact your local iiyama dealer or regional iiyama office.

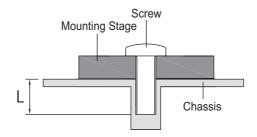
- Power Cable\*<sup>1</sup>
- HDMI Cable
- Safety Guide
- Quick Start Guide

- CAUTION
  - \* The rating of the Power Cable enclosed in 120V area is 10A/125V. If you are using a power supply higher than this rating, then a power cable with a rating of 10A/250V must be used. However, all guarantees and warranties are void for any problems or damage caused by a power cable not supplied by iiyama.
     An approved power cord greater or equal to H05VVF, 3G, 0.75mm<sup>2</sup> must be used.

**USB** Cable

## WALL MOUNTING

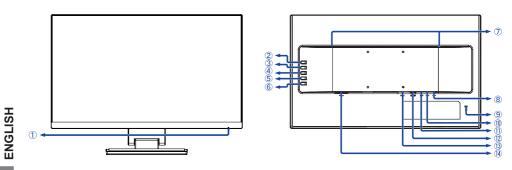
WARNING When you use with the wall mounting, in consideration of thickness of the mounting stage, tighten the M4 Screw with washer which "L" length is 7mm to fasten the monitor. Using the screw longer than this may cause electric shock or damage because it may contact with the electrical parts inside the monitor.



## CONTROLS AND CONNECTORS

#### <Front>

<Back>



1 Power Indicator

**NOTE** Blue: Normal operation

Orange: Power Management

- Auto Button (AUTO)
- ③ + Button ( + )
- 4 Button ( )
- ⑤ Menu Button (MENU)
- ⑥ Power Switch ( ₼ )
- ⑦ Speakers
- ⑧ USB Downstream Connector (⊶↔)
- (9) Keyhole for Security Lock

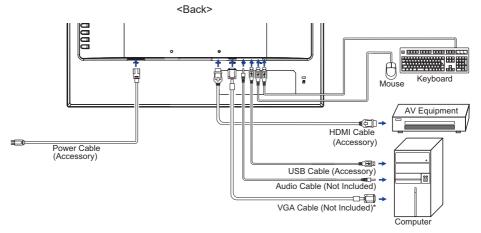
**NOTE** You can fasten a security lock and cable to prevent the monitor from being removed without your permission.

- 1 USB Upstream Connector (
- 1 Audio Connector (((( ))))
- 12 VGA Connector (VGA)
- (13) HDMI Connector (HDMI)
- () AC Connectorr( ~: Alternating current) (AC POWER IN)

## **CONNECTING YOUR MONITOR**

- ① Ensure that both the computer and the monitor are switched off.
- ② Connect the computer to the monitor with the signal cable.
- ③ Connect the monitor to the audio equipment with the Audio Cable for computer when using the audio features.
- ④ Connect the computer to the monitor with the USB Cable.
- 5 Connect the Power Cable to the monitor first and then to the power supply.
- 6 Turn on your monitor and computer.
- **NOTE** The signal cables used for connecting the computer and monitor may vary with the type of computer used. An incorrect connection may cause serious damage to both the monitor and the computer. The cable supplied with the monitor is for a standard connector. If a special cable is required please contact your local iiyama dealer or regional iiyama office.
  - For connection to Macintosh computers, contact your local iiyama dealer or regional iiyama office for a suitable adaptor.
  - Make sure you tighten the finger screws at each end of the Signal Cable.
  - The Class I pluggable equipment Type A must be connected to protective earth.
  - The socket-outlet shall be installed near the equipment and shall be easily accessible.

[Example of Connection]



\* VGA cable is not supplied with the monitor. If you use low quality VGA cable, it may cause a result of electro-magnetic interference. Please contact the iiyama Support Centre in your country if you wish to connect the monitor via the VGA input.

## **COMPUTER SETTING**

#### Signal Timing

Change to the desired signal timing listed on page 24: COMPLIANT TIMING.

## TOUCH support operation system

	Mouse	Digitizer	Gestures*1
Windows8/8.1/10	0	0	0
Windows7	0	0	0
Windows Vista	0	0	×
Windows XP	×	×	×
Mac OS/OS X	×	×	×
Linux	0	×	×
Android	×	×	×
Functions	Click Drag Double-Click	Mouse function Right-Click Flick Visual feedback	Mouse & Digitizer functions Press & Tap, Rotate, Zoom-in/out

The other OS Versions not listed are not supported.

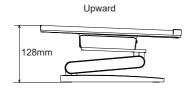
 $\bigcirc$ : Supported  $\times$ : Not supported

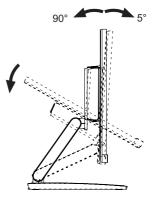
\*<sup>1</sup> Gestures can be supported by application programs.

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## ADJUSTING THE VIEWING ANGLE

- **NOTE** Do not touch the Touch screen when you change the angle. It may cause damage or break the Touch screen and LCD screen.
  - Careful attention is required not to catch your fingers or hands when you change the angle.
- For optimal viewing it is recommended to look at the full face of the monitor.
- You are able to adjust the monitor's height up to 388mm 128mm, angle up to 90 degrees upward and 5 degrees downward.
- Hold the stand so that the monitor does not topple when you change the monitor's angle.
  - 1 Place the monitor on a flat surface.
  - ② Hold the panel so the monitor does not topple.
  - ③ We recommend that you adjust the stand to its lowest position when using the monitor in the 90 degree upward tilt position.





## **OPERATING THE MONITOR**

To create the best picture, your iiyama LCD monitor has been preset at the factory with the COMPLIANT TIMING shown on page 24. You are also able to adjust the picture by following the button operation shown below. For more detailed adjustments, see page 17 for SCREEN ADJUSTMENTS.

 Press the MENU Button to start the On Screen Display feature. There are additional Menu items which can be switched by using the + / - Buttons.



- ② Select the Menu item which contains the adjustment icon relating to the adjustment you want to make. Press the MENU Button. Then, use the + / - Buttons to highlight the desired adjustment icon.
- ③ Press the MENU Button again. Use the + / Buttons to make the appropriate adjustment or setting.
- ④ Press the AUTO Button to leave the menu, and the settings you just made would be automatically saved.

For example, to correct for vertical position, select Menu item of Geometry and then press the MENU Button. Then, select Vertical Position by using the + / - Buttons.

An adjustment page appears after you press the MENU Button. Then, use the + / - Buttons to change the vertical position settings. The vertical position of the overall display should be changing accordingly while you are doing this.



Press the AUTO Button lastly, it ends, all changes are saved in the memory.

## NOTE

- When button operations are aborted during adjustment, On-Screen Display disappears when the time set for the Timeout has passed. Also, the AUTO button can be used to return previous menu and turn off the On-Screen Display.
- Any changes are automatically saved in the memory when the On Screen Display disappears. Turning off the power should be avoided while using the Menu.
- Adjustments for Horizontal / Vertical Position, Pixel Clock and Phase are saved for each signal timing. Except for these adjustments, all other adjustments have only one setting which applies to all signal timings.

## ADJUSTMENT MENU CONTENTS

Picture Adjust		Prictics 72000000 printers		
Adjustment Item	Probler	n / Option Button to Press		
Brightness * <sup>1</sup>	Too dark Too bright	<ul> <li></li></ul>		
Contrast	Too dull Too intens	ee		
	Off	Normal		
Eco Direct	Mode1	Brightness of back-light is reduced.		
	Mode2			
	Mode3	Brightness of back-light is reduced more than Mode2.		
	Standard	For general windows environment and monitor default setting.		
i Otale Oplan *2	Text	For text editing and viewing in a word processing environment.		
i-Style Color *2	Internet For internet environment.			
	Game	ame For PC game environment.		
	Movie	For movie and video environment.		
	Sport	For sport environment.		
Adv. Contrast	Off Typical Contrast Ratio			
	On	Increased Contrast Ratio		
during move playing.		cording to the image, and improve the contrast ratio s, Eco and i-Style Color cannot be adjusted and		

selected while Adv. Contrast is active.

\*<sup>1</sup> Adjust the Brightness when you are using the monitor in a dark room and feel the screen is too bright.

\*<sup>2</sup> i-Style Color is disabled when Blue Light Reducer is activated.



You can skip the Menu items and display an adjustment scale directly by using the following button operations.

• Eco: Press the - Button when the Menu is not displayed.

Geometry



Adjustment Item	Problem / Option		Button to Press
Pixel Clock* <sup>1,2</sup>	Too narrow Too wide		<ul> <li></li></ul>
Phase* <sup>1,2</sup>	To correct flickering text or lines		
Horizontal Position* <sup>2</sup>	Too Too	left right	<ul> <li></li></ul>
Vertical Position* <sup>2</sup>	Too low Too high		<ul> <li></li></ul>
Aspect	Full	Expansion display	
	Aspect Expansion display of Aspect		

\*1 See page 17 for SCREEN ADJUSTMENTS.

\*<sup>2</sup> Only Analog Input.

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Color Settings*		Ficks T cotsment Cotsment Cotome C		
Adjustment Item	Probler	n / Option	Button to Press	
Gamma	Mode1 Mode2 Mode3	Normal High contrast Dark		
	User	Red Green Blue	Too weak $\clubsuit$ + Too strong $\clubsuit$ -	
Color Temp	Cool	Bluish white		
	Normal	Yellowish white	•	
	Warm	Greenish white		
	sRGB	sRGB		
<ul> <li>NOTE SRGB is an international standard which defines and unifies the difference of color appearance between equipment.</li> <li>You can not adjust the Brightness, Contrast, Gamma and Eco during sRGB mode because those settings are locked.</li> </ul>				

\* Color Settings adjustments is disabled when Blue Light Reducer is activated.

## 🕀 OSD

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	UST ON SCREEN DISPLAY SETTINGS			
	GSD HORIZONTAL POSITIO	• • -	59%	⊐►
		-	50%	_▶
- oso	000 TMC		10	
	S LANDUAGE		ENGLISH	
	Auto Power Of			
	Touch Water Up			

Adjustment Item	Problem / Option			Button to Press	
OSD Horizontal Position		OSD is too left OSD is too right			
OSD Vertical Position		OSD is too low			
OSD Time	You can set the OSD display duration time between 5 and 60 seconds.				
	English	English	日本語	Japanese	
	Deutsch	German	Nederlands	Dutch	
Language	Español	Spanish	Polski	Polish	
	Français	French	Portuguese	Portuguese	
	Italiano	Italian	Русский	Russian	
	Off	Auto Power 0	Off is turned of	f.	
Auto Power Off	On The monitor will turn off automatically after 3 hours without any key operation.				
	Off Touch Wake Up is turned off.			ff.	
Touch Wake Up	On Touch and USB hub still functional during the display stand by.				

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Extra	ÍÍyama (∦ rote Loar E: aantr ⊗ oct timet 3 as 3 as	TTM         0           1 SEE         0	
Adjustment Item	Proble	m / Option	Button to Press
Reset	Yes	Factory-preset data is restored.	
Reset	No	Return to Menu.	
	Auto	Select the signal input automatical	lly.
Signal Select Direct	VGA	Select the Analog input.	
	HDMI	Select the Digital (HDMI) input.	
If there are more input s not available.	ources ava nnected, th in.	natically be selected when just one s ailable and you select one of them, t e monitor may not recover the last of specific source.	the AUTO option is
Audio Input*1	HDMI	Select the HDMI input.	
	LINE IN	N Select the LINE IN input.	
Opening Logo	Off	iiyama Logo does not display when the monitor is turned on.	
	On	iiyama Logo displayed when the m	nonitor is turned on.
	Off	The Power Indicator is turned Off.	
LED	On	The Power Indicator is turned On.	
NOTE Turn Off the Power Indi	cator wher	you are bothered by the light.	
Overdrive* <sup>2</sup>	Off $/ -2 / -1 / 0 / +1 / +2$ It will improve the gray level response time of the LCD panel. A higher level results in a faster response time.		
Information	Displays information regarding the current input signal coming from the graphic card in your computer. NOTE See your graphic card user guide for more information about changing the resolution and refresh.		

\*1 Suitable for HDMI input only.

\*<sup>2</sup> When Overdrive is activated, some level of image retention will be caused.

## Direct

You can skip the Menu items and display an adjustment scale directly by using the following button operations.

• Signal Select: Press the AUTO button when the Menu is not displayed, it shows following Menu. Signal select is switched by pressing the AUTO button successively.



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## Direct

You can skip the Menu items and display an adjustment scale directly by using the following button operations.

• Volume: Press the + Button when the Menu is not displayed.

Adjustment Item	Problem / Option	Button to Press
Volume	Too soft Too loud	

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• Auto Adjust: Press and hold the Auto Button for 3-4 seconds when the Menu is not displayed.

## Only Analog Input

Adjustment Item	Problem / Option	Button to Press
Auto Autust	Adjust Horizontal / Vertical Position, automatically.	Pixel Clock and Phase

- \* For best results, use the Auto Adjust in conjunction with the adjustment pattern. See page 21 for SCREEN ADJUSTMENTS.
- Blue Light Reducer \* : Pressing and holding of the + Button for 3-4 seconds when the Menu is not displayed.
   Off : Normal
   Mode1 : Blue light is reduced.
   Mode2 : Blue light is reduced more than Mode1.
   Mode3 : Blue light is reduced more than Mode2.
- \* Blue Light Reducer cannot be enabled if i-Style Color, Adv.Contrast or Color Settings colour are enabled.
- Lock Mode:

### <OSD>

Hold the MENU button and turn on the monitor when the monitor is power-off, it will lock/unlock the OSD Key Lock function.

### <Power/OSD>

Pressing and holding the MENU button for 10 seconds when Menu is not displayed, will lock/unlock the Power/OSD Key Lock function.

## SCREEN ADJUSTMENTS

Adjust the image by following the procedure below to get the desired picture when selecting Analog input.

- The screen adjustments described in this manual are designed to set image position and minimize flicker or blur for the particular computer in use.
- The monitor is designed to provide the best performance at resolution of 1920 × 1080, but can not provide the best at resolutions of less than 1920 × 1080 because the picture is automatically stretched to fit the full screen. It is recommended to operate at resolution of 1920 × 1080 in normal use.
- Displayed text or lines will be blurred or irregular in thickness when the picture is stretched due to the screen enlargement process.
- It is preferable to adjust the image position and frequency with the monitor controls, rather than the computer software or utilities.
- Perform adjustments after a warm-up period of at least thirty minutes.
- Additional adjustments may be required after the Auto Adjust depending on the resolution or signal timing.
- The Auto Adjust may not work correctly when displaying the picture other than the screen adjustment pattern. In this case, manual adjustments are required.

There are two ways to adjust the screen. One way is automatic adjustment for H/V-POSITION, H-SIZE and FINE. The other way is performing each adjustment manually.

Perform the Auto Adjust first when the monitor is connected to a new computer, or resolution is changed. If the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Adjust, manual adjustments are required. Both adjustments should be made by using the screen adjustment pattern (Test.bmp) obtained via the IIYAMA web site (http://www.iiyama. com).

Adjust the image by following the procedure below to get the desired picture. This manual explains adjustment under Windows<sup>®</sup> OS.

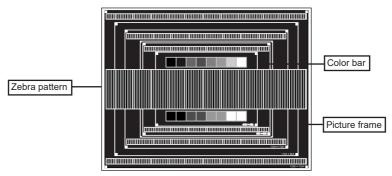
#### ① Display the picture at the optimum resolution.

#### 2 Enter the Test.bmp (screen adjustment pattern) to wallpaper.

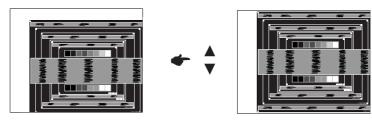
**NOTE** Consult the appropriate documentation for doing this.

Test.bmp is made at resolution of 1280 × 1024. Set the display position to center in the wallpaper setting dialogue box. If you use Microsoft<sup>®</sup> PLUS! 95/98 cancel the setting of "Stretch desktop wallpaper to fit the screen".

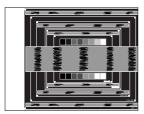
[Adjustment pattern]



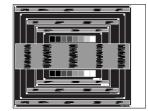
- ③ Press and hold the Auto Button for 3-4 seconds when the Menu is not displayed. (AUTO ADJUST)
- ④ Adjust the image manually by following procedure below when the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Adjust.
- **(5)** Adjust the V-POSITION so that the top and bottom of the picture frame will fit to the display area.



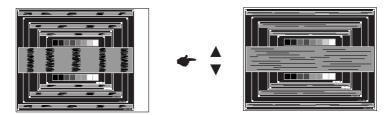
(6) 1) Adjust the H-POSITION so that the left side of the picture frame will move to the left edge of the display area.





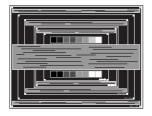


2) Stretch the right side of the picture frame to the right edge of the display area by adjusting the H-SIZE.

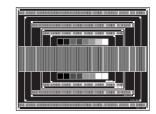


- **NOTE** When the left side of the picture frame moves apart from the left edge of the display area during the H-SIZE adjustment, adjust steps 1) and 2).
  - Another way to make the H-SIZE adjustment is to correct the vertical wavy lines in the zebra pattern.
  - The picture may flicker during the H-SIZE, H/V-POSITION adjustment.
  - In case the picture frame is bigger or smaller than the data display area after the H-SIZE adjustment, repeat steps from ③.

### ⑦ Adjust the FINE to correct horizontal wavy noise, flicker or blur in the zebra pattern.







## NOTE

- In case the strong flicker or blurs remain on a part of the screen, repeat steps (6) and ⑦ because the H-SIZE may not be adjusted correctly. If the flicker or blurs still remain, set the refresh rate of computer to low (60Hz) and repeat steps from ③ again.
  - Adjust the H-POSITION after the FINE adjustment if the horizontal position moves during the adjustment.
- ⑧ Adjust the Brightness and Color to get the desired picture after you complete the H-SIZE and FINE adjustments.

Put back your favorite wallpaper.

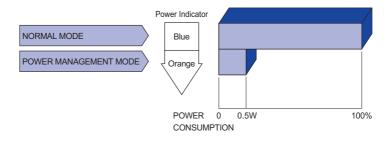
## **POWER MANAGEMENT FEATURE**

When your computer is not in use, the power management feature will automatically reduce the power consumption of your monitor.

To use the feature, the monitor needs to be connected to a VESA DPMS compliant computer. There is a power management step the monitor takes as described below. The power management function, including any timer settings is configured by the operating system. Check your operating system manual for information on how this can be configured.

#### Power Management Mode

When the H-sync signal / V-sync signal / H and V sync signals from the computer are off, the monitor enters into Power Management Mode which reduces the power consumption to less than 0.5W. The screen becomes dark. From Power Management Mode, the image reappears in several seconds when either the keyboard or the mouse are touched again.



- NOTE
- Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not in use, during the night and weekends, to avoid unnecessary power consumption.
- It is possible that the video signal from the computer may be on while the H or V sync signal is missing. In this instance, the POWER MANAGEMENT feature may not work properly.

# ENGLISH

## **TROUBLE SHOOTING**

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

- 1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
- 2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
- 3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

## Problem

#### Check

1	The picture does not appear.	<ul> <li>The Power Cable is firmly seated in the socket.</li> <li>The Power Switch is turned ON.</li> <li>The AC socket is live. Please check with another piece of equipment.</li> <li>If the blank screen saver is in active mode, touch the keyboard or the mouse.</li> <li>Increase the Contrast and/or Brightness.</li> <li>The computer is ON.</li> <li>The Signal Cable is properly connected.</li> <li>The signal timing of the computer is within the specification of the monitor.</li> <li>If the monitor is in power management mode, touch the keyboard or the mouse.</li> </ul>
2	The screen is not synchronized.	<ul> <li>The Signal Cable is properly connected.</li> <li>The signal timing of the computer is within the specification of the monitor.</li> <li>The video output level of the computer is within the specification of the monitor.</li> </ul>
3	The screen position is not in the center.	□ The signal timing of the computer is within the specification of the monitor.
4	The screen is too bright or too dark.	The video output level of the computer is within the specification of the monitor.
5	The screen is shaking.	<ul><li>☐ The power voltage is within the specification of the monitor.</li><li>☐ The signal timing of the computer is within the specification of the monitor.</li></ul>
6	No sound.	<ul> <li>The audio equipment (computer etc.) is ON.</li> <li>The Audio Cable is properly connected.</li> <li>The Volume is turned up.</li> <li>The audio output level of the audio equipment is within the specification of the monitor.</li> </ul>
7	The sound is too loud or too quiet.	□ The audio output level of the audio equipment is within the specification of the monitor.
8	A strange noise is heard.	□ The Audio Cable is properly connected.
9	The touch screen shows no response.	□ The USB Cable is firmly seated in the socket. □ Touch screen driver software is installed.
10	The touch position does not deviate.	□ The calibration function set up correctly.

## **RECYCLING INFORMATION**

For better environment protection please don't dispose your monitor. Please visit our web site: www.iiyama.com/recycle for monitor recycling.

## **APPENDIX**

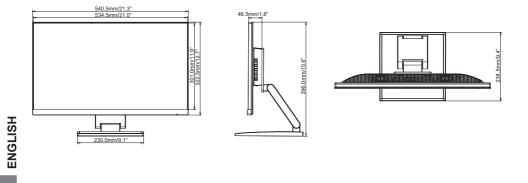
Design and specifications are subject to change without prior notice.

## SPECIFICATIONS

Touch	Technology	Projected capacitive		
Screen	Communication system	USB		
Size Cate	egory	24"		
	Panel technology	IPS		
	Size	Diagonal: 23.8" (60.47cm)		
	Pixel pitch	0.2745mm H × 0.2745mm V		
LCD Panel	Brightness	250cd/m <sup>2</sup> (Typical)		
	Contrast ratio	1000 : 1 (Typical: with Touch Panel)		
	Viewable angle	Horizontal : 178 degrees, Vertical: 178 degrees (Typical)		
	Response time	4ms (Gray to Gray)		
Display 0	Colors	Approx.16.7M		
Sync Fre	quency	Analog: Horizontal: 30.0-80.0kHz, Vertical: 56-75Hz Digital: Horizontal: 30.0-80.0kHz, Vertical: 56-75Hz		
Native R	esolution	1920 × 1080, 2.1 MegaPixels		
Support I	max. resolution	VGA: 1920 × 1080 60Hz HDMI: 1920 × 1080 60Hz		
Input Co	nnector	VGA, HDMI		
Plug & P	lay	VESA DDC2B <sup>™</sup>		
Input Syr	nc Signal	Separate sync: TTL, Positive or Negative		
Input Vid	eo Signal	Analog: 0.7Vp-p (Standard), 75Ω, Positive Digital: HDMI		
USB Sta	ndard	USB3.0		
Number Connecto	of USB Ports or shape	1 Upstream : Series B 2 Downstream : Series A		
Input Aud	dio Connector	ø 3.5mm mini jack (Stereo)		
Input Aud	dio Signal	0.5Vrms maximum		
Speakers	3	2W × 2 (Stereo speakers)		
Maximun	n Screen Size	527.04mm W × 296.46mm H / 20.7" W × 11.7" H		
Power So	ource	100-240VAC, 50/60Hz, 1.5A		
Power Co	onsumption*	24W typical, Power management mode: 0.5W maximum Energy Efficiency Class: A		
Dimensio	ons / Net Weight	540.5 × 388.0 - 128.0 × 238.5mm / 21.3 × 15.3 - 5.0 × 9.4" (W×H×D) 5.5kg / 12.1lbs		
Tilt Angle	)	Upward: 90 degrees Downward: 5 degrees		
Environm	nental Considerations	Operating:Temperature Humidity5 to 35°C / 41 to 95°F 20 to 80% (No condensation) -20 to 60°C / -4 to 140°F 10 to 90% (No condensation)		
Approval	s	CE, TÜV-Bauart, CU		



NOTE \* USB peripherals / Audio equipment are not connected.



## COMPLIANT TIMING

Video Mode	Horizontal Frequency	Vertical Frequency	Dot Clock
640 × 480	31.469kHz	59.940Hz	25.175MHz
040 ^ 400	37.500kHz	75.000Hz	31.500MHz
	35.156kHz	56.250Hz	36.000MHz
800 × 600	37.879kHz	60.317Hz	40.000MHz
	46.875kHz	75.000Hz	49.500MHz
	48.363kHz	60.004Hz	65.000MHz
1024 × 768	56.476kHz	70.069Hz	75.000MHz
	60.023kHz	75.029Hz	78.750MHz
1280 × 1024	63.981kHz	60.020Hz	108.000MHz
1200 × 1024	79.976kHz	75.025Hz	135.000MHz
1440 × 900	55.935kHz	59.887Hz	106.500MHz
1680 × 1050	65.290kHz	59.954Hz	146.250MHz
1920 × 1080	67.500kHz	60.000Hz	148.500MHz