User Manual for DTS-3270C

Appendix

IMEW320

Content

IMEW320

Change History of Revision

Revision	Date	Contents of Revision Change	Remark
0.0	21.12.13	Release	

IMEW320

Recommended Use

 FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN
 SETTING UP AND USING THE TOUCH SCREEN MONITOR.

- DO NOT OPEN THE MONITOR.
  Opening or removing covers may expose you to dangerous shock hazards or other
  risks.
  Once you open it the warranty voids.

- To protect from electrical shock, unplug the display power supply from the wall before
  moving.

- Do not put anything on top of the monitor.

- Do not spill any liquids into the cabinet or use your monitor near water.

- Do not place this product on a sloping or unstable cart, stand or table, as the monitor
  may fall, causing serious damage to the monitor.

- If you connect or disconnect the HDMI cable while both of PC's and LCD monitor's
  power is turned on, the monitor might show some garbage on the screen or could be
  damaged. Please turn off the TFT-LCD monitor's power before connect or disconnect
  HDMI cable.

- Ensure that sufficient space is available around the display to provide air circulation
  for cooling.

- Ensure that ambient air temperature will not exceed the specified maximum
  temperature.

- Handle with care when transporting. Save packaging for transporting.

- Do not touch or press the surface of on the LCD panel, it will cause a permanent
  damage. Use only soft cloth with non-ammonia glass cleaner to clean the panel.

IMEW320

Thank you for your selection of FHD Touch Screen Display Monitor

Please take a few minutes to read this User's manual for the best performance of this monitor.

Information in this manual is subject to change without prior notice for improving design,

function and etc.

1. Package Contents

Your LCD monitor package will consist of the primary components listed below.

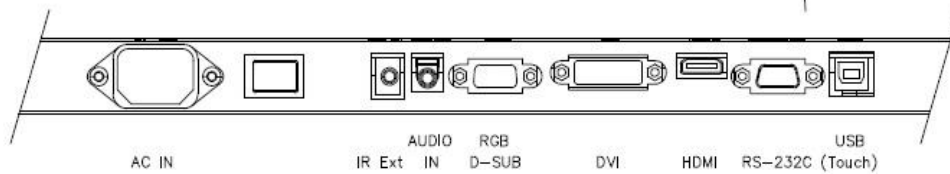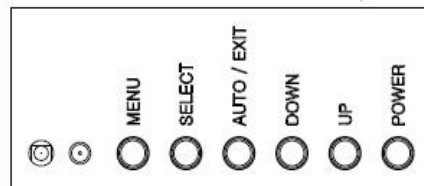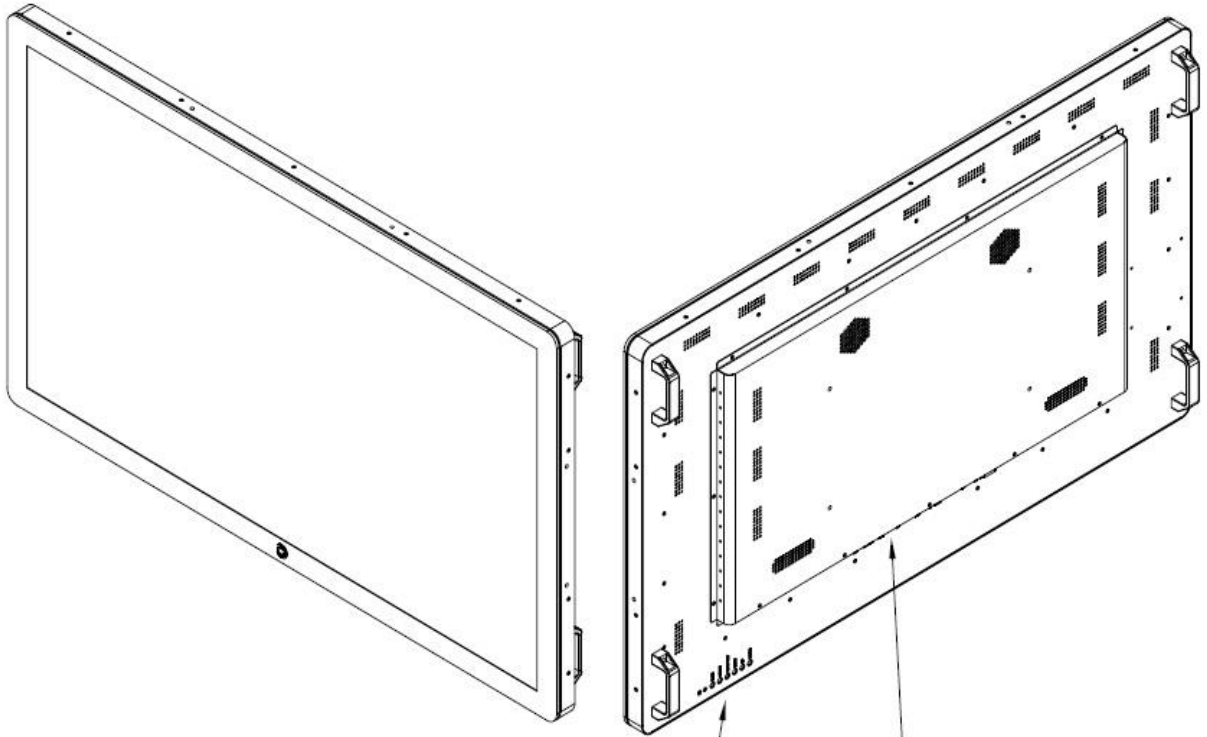Touch USB Cable

HMDI Cable

Power Cord

* It's possible that it can vary from country

Note) Actual accessories may differ from those in this user's guide.
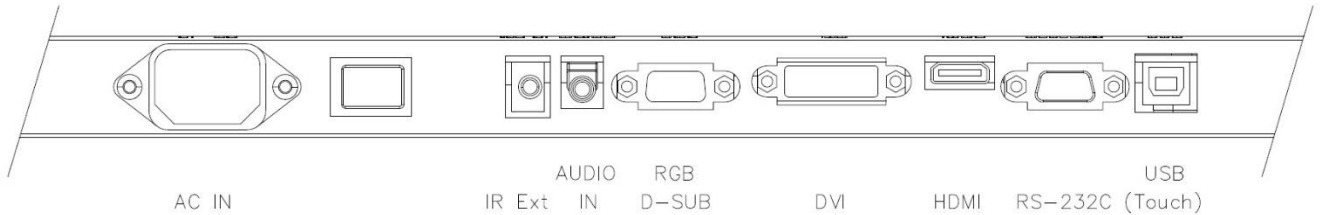
IMEW320

2. Product Configuration

Interface Terminal (Attached page 7)

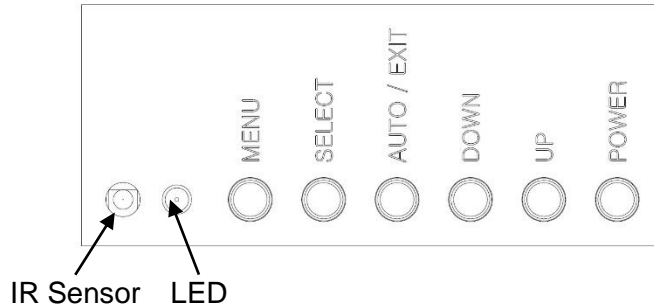Note) Actual Touch Screen Monitor may differ from those in this user's drawing

IMEW320

3. Interface Description

AC IN   IR Ext   AUDIO IN   RGB D−SUB   DVI   HDMI   RS−232C   USB (Touch)

No	Name	Description
1	AC-Inlet	• AC input terminal : 100V~240V (50hz~60hz)
2	Power Switch	• Power On/Off Switch
3	HP In	• For Headphone In
4	DVI	• For DVI Input 1
5	HDMI1	• For HDMI(2.0) Input 1 • Connector to the digital video and audio input terminal
6	RS232	• For RS232 Input 1
7	VGA	• For VGA Input 1
8	USB(Touch)	• Touch screen connect USB cable. • Connect to PC's USB 2.0 port

IMEW320

## 4. OSD Control Board Description

4.1 OSD Interface Description

IR Sensor   LED

No	Name	Description
1	IR Sensor	• IR Sensor for remote control
2	LED	• Indicated LED -. Red Color : Display Power On -. Green Color : Display On -. Yellow Color : Display Error
3	POWER BUTTON	• Display Power On / Off
4	SELECT BUTTON	• Selected to Input video source : Hot key
5	UP BUTTON (▲)	• Check current input signal : Hot key • Up shift
6	DOWN BUTTON (▼)	• Choose the present menu • Down shift
7	RIGHT BUTTON (▶)	• Right /select & Increases Volume level • Increase level • Right shift
8	LEFT BUTTON (◀)	• AUTO/ LEFT Decreases Volume level : Hot key • Increase level • Left shift • Exit the present menu
9	MENU BUTTON	• Display the setting menu • Choose or cancel the present menu

IMEW320

OPERATING THE MONITOR

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

① **Press the MENU Button to start the On Screen Display feature. There are additional Menu items which can be switched by using the ▲/▼ Buttons.**
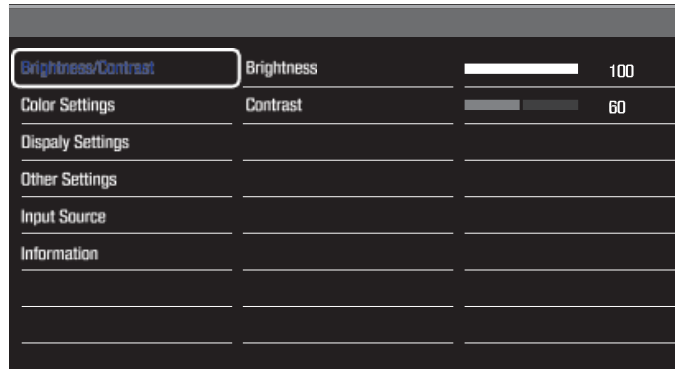
② **Select the Menu item of the adjustment you want to make. Press the ▶ or OK Buttons and enter the menu page. Then, use the ▲/▼ Buttons to highlight the desired adjustment item.**

③ **Press the ▶ or OK Buttons again. Use the ▲/▼ Buttons to make the appropriate adjustment or setting.**

④ **Press the EXIT 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 "Display Settings". Select "V. Position" by using the ▲/▼ Buttons. Press the ▶ or OK Buttons.
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.
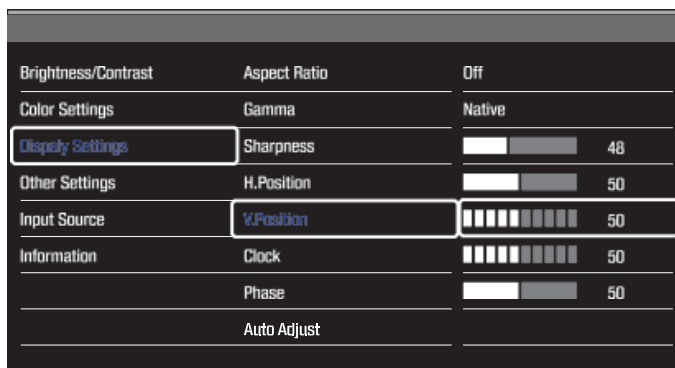
Press the EXIT Button lastly, it ends, all changes are saved in the memory.

IMEW320

NOTE

■ When button operations are aborted during adjustment, On-Screen Display disappears when the time set for the OSD Timeout has passed.

■ The MENU / EXIT Button can be used to return previous menu item.

■ 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 Image H./V.Position, 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.

● **LOCK MODE:** * Available for Back Controller only.
  Pressing and holding the MENU button and the Power Switch for about 3 seconds when the Menu is not displayed.
  * The OSD menu is not displayed when the OSD is locked. Pressing and holding the MENU button and the Power Switch for about 3 seconds when the Menu is not displayed.

  The following OSD menu is displayed.

Adjustment Item	Problem / Option	
OSD	On	The OSD menu is Locked.
	Off	The OSD menu is Unlocked.
Power Key	On	The POWER SWITCH is Locked.
	Off	The POWER SWITCH is Unlocked.
Remoto Control	On	The Remote Control is Locked.
	Off	The Remote Control is Unlocked.

IMEW320

ADJUSTMENT MENU CONTENTS

Brightness/Contrast
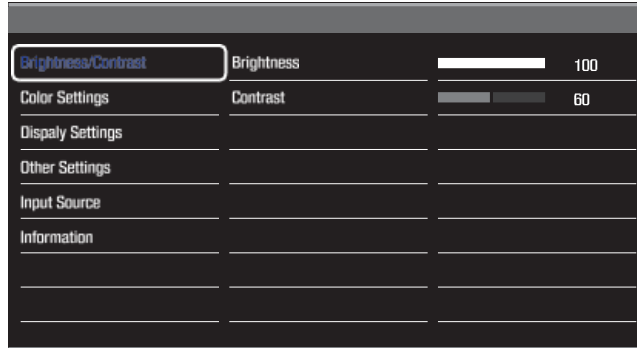
Adjustment Item	Problem / Option	Button to Press
Brightness *	Too dark Too bright	
Contrast	Too dull Too intense	

* Adjust the Brightness when you are using the monitor in a dark room and feel the screen is too bright.

Color Settings
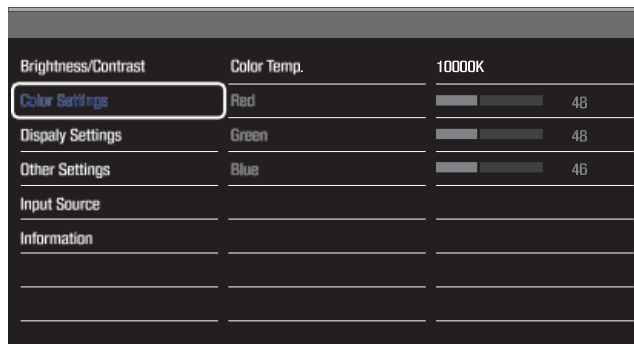
Adjustment Item	Problem / Option			Button to Press
	10000k	More bluish white		
	9300k	Bluish white		
	6500k	Reddish white		
Color Temp.	USER	RED	Too weak Too strong	
		GREEN		
		BLUE		

IMEW320

Display Settings
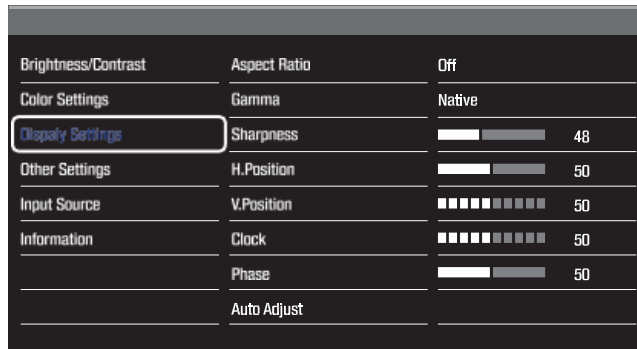
Adjustment Item	Problem / Option		Button to Press
Aspect Ratio	Off	Aspect Ratio is turned off.	
	16:10	Displays all picture in 16:10 aspect ratio.	
	5:4	Displays all picture in 5:4 aspect ratio.	
Gamma	You can set the Gamma. Native / 2. 2 / 1.8		
Sharpness	You can change the picture quality from 0 to 100 (soft to sharp). Press the ▲ Button to change the picture quality in numerical order. Press the ▼ Button to change the picture quality in reverse numerical order.		☛ ▲ ▼
H. Position *1	☐ Too left ☐ Too right		☛ ▲ ☛ ▼
V. Position *1	☐ Too low ☐ Too high		☛ ▲ ☛ ▼
Clock *1,3	☐ Too narrow ☐ Too wide		☛ ▲ ☛ ▼
Phase *1,3	To correct flickering text or lines		☛ ▲ ▼
Auto Adjust *1,2	Adjust H./V. Position, Clock and Phase automatically.		

*1 Only Analog input.
*2 For best results, use the Auto Adjust in conjunction with the adjustment pattern.
  for SCREEN ADJUSTMENTS.
*3 SCREEN ADJUSTMENTS.

IMEW320

Other Settings

Brightness/Contrast	Language	English
Color Settings	OSD Timeout	▬▬ ▬ 10
Dispaly Settings	Volume	■■■ ■■■■■■■ 30
Other Settings	Volume Mute	Off
Input Source	Fan	Off
Information	Anti Image Retention	Off
	Opening Logo	On
	Factory Reset	
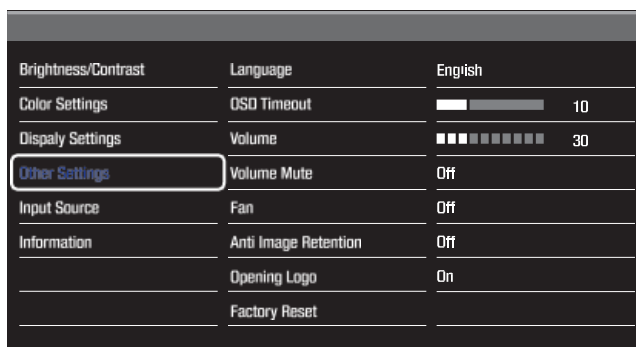
Adjustment Item	Problem / Option				Button to Press
Language	English	English	Nederlands	Dutch	
	Français	French	Poliski	Polish	
	Español	Spanish	Русский	Russian	
	Deutsch	German			
OSD time out	You can set the OSD display duration time betwe en 5 and 30 seconds.				☚ ▲ ▼
Volume	Too soft Too loud				☚ ▲ ☚ ▼
Mute	On	Turn off the sound temporarily.			
	Off	Return the sound volume to the previous level.			
Fan	On	Fan is turned on.			
	Off	Fan is turned off.			
Anti Image Retention	On	Automatically displays moving patterns (shifting by 2 pixels) to prevent image retention on the screen.			
	Off	Anti Image Retention is turned off.			
Opening Logo	On	iiyama Logo displayed when the monitor is turned on.			
	Off	iiyama Logo does not display when the monitor is tu rned on.			
Factory Reset	Factory-preset data is restored.				

IMEW320
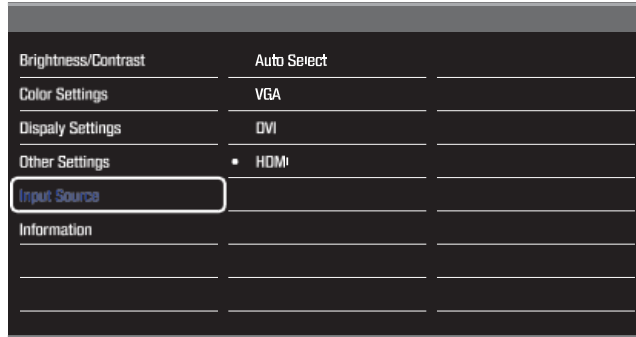
Input Source

Adjustment Item	Problem / Option		Button to Press
Input Source	AUTO	Select the signal input automatically.	
	VGA	Select the analog input.	
	DVI	Select the digital(DVI) input.	
	HDMI	Select the digital(HDMI) input.	

NOTE
When only one of the two signal inputs is connected to the signal source, the one connected is automatically selected. Input Select function is not available if there is no signal input from the selected connector or during the power management mode.

Information
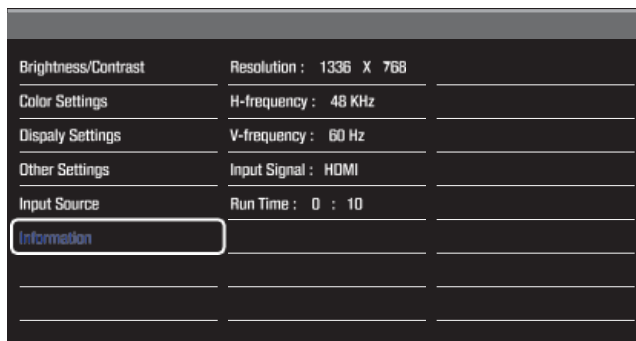
Displays information regarding the current input signal coming from the graphic card in your computer.

NOTE
See your graphic card user guide for more information about changing the resolution and refresh.

5. Remote Control

• Use a remote control up to 7 meters distance and 30 degree (left/right) within the receiving unit scope.

  -Format : NEC
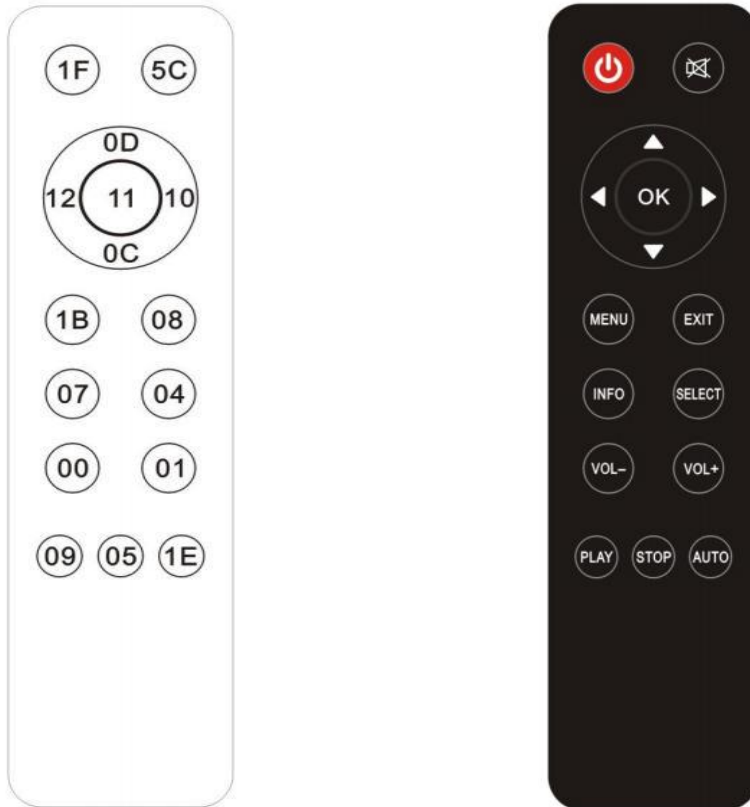
No	Button	Description
1	Power	• Switches the display power on and off
2	Mute	• Switches the audio on and off
3	Menu	• Enter the menu
4	Source	• Select the input video signal
5	(▲/▼)	• Up or Down shift
6	(◄/►)	• Right or Left shift
7	OK	• Confirm the selection
8	- / +	• Increase or Decreases Volume level

6. Trouble shooting

Phenomenon	Confirmation and action
No Display	• Check that the Power code is properly connected to the display. • Check that Power on/off button on the OSD • Check that the signal cable is properly connected to the display. • Try disconnecting the video cable from the display and connecting to another display if available to confirm the presence of proper video. • Make sure the resolution mode is supported by the display and check • display settings of the PC • Confirm that the video cables is not defective.
Image Persistence	• Image persistence occurs when a ghost of an image remains on the screen after the screen image has been changed. • The LCD monitor's image persistence is not permanent. To erase an image ghost, turn the monitor off for several hours. • What happens is the liquid crystals after extended periods of operation. • Check for proper Max. Resolution and Frequency.
Picture Quality & Image Stability	• Check for proper video cable for proper grounding and shielding. • Check the signal source for proper signal. • Check for proper adjustment of the Phase and Frequency controls. • Check for proper recommended signal timing.
Green LED not lit	• Check for proper power and power connections.
Display image is not properly sized	• Press the "Select" button to Auto Adjust the display. • Adjust the Vertical and Horizontal size controls via the OSD. • (Reference setup adjustments) • Ensure that a supported mode is selected on the display card • or system being used. Consult the display card or system manual • for proper video.
Display is present but "bar" Appear or roll across screen	• Ground contect problem between computer and display. • Interference from adjacent equipment.

IMEW320

Phenomenon	Confirmation and action
Image will not adjust	• Video timing outside of range • Use the one-screen menu to adjust the clock setting. • Make sure timing is within VESA standard.
Slight distortion in text or Graphics	• Not working in native resolution
Vertical shaded bars on Screen image	• Horizontal size not properly adjusted. Adjust horizontal size
Image is not stable	• Monitor has incorrect or bad sync signals. • Check for proper video cable installation. • Replace suspected faulty cable. • Check to ensure that video source is within the display's • operating range.

IMEW320

7. Specification
(1) MONITOR SPECIFICATIONS

ITEMS		SPECIFICATION
Panel	Screen Diagonal	31.5 inch
	Active Display Area	698.4 x 392.85mm
	Display Type	Transmissive mode, Normally black
	Max. Resolution	1920 x 1080
	Display Colors	1.07B Colors, 10Bits(D)
	Pixel Pitch	0.3637 x 0.3637mm
	Brightness	400 cd/m^2 (Typ.)
	Contrast Ratio	4000 : 1 (Typ.)
	Response Time (G to G)	8ms (Typ.)
	Viewing Angle	178º(H), 178º (V) Min.
	Lamp Life Time	50,000Hrs (Typ)
Input Video Signal		HDMI 2.0 x1, DVI , VGA , RS232
Audio	Input / Output	HDMI / ∅3.5 Phone Jack for Headphone, Speaker
	Speaker Output	8Wrms + 8Wrms (± 10%)
Control/OSD		6 KEY (MENU,SOURCE/▲,AUTO/▼,VOL◀,VOL▶,POWER)
Indication LED		Power Off : Led Off , St-by : Red Blinking , Normal : Green
Power Input		AC 100V~240V (50/60Hz)
Power Management		VESA DPMS

(2) TOUCH SPECIFICATIONS

ITEMS	SPECIFICATION
Touch Type	PCAP (Projected Capacitive) EETI Controller
Touch Input Method	Finger
Number of Touch Point	20 Points Multi-Touch
Available Object size	∅9mm(Finger)
Response Time	10ms
Thickness	3.45mm(Glass : 3mm, Sensor : 0.45mm)
Transmittance	84%(Typ.)
Position Accuracy	+/- 1mm (outside 3.5mm from edges) +/- 2mm (within 3.5mm from edges)
Interface	USB 1.1 FS, HID Compliant Plug & Play / RS232 (Option)
Supported OS	Windows 7/8/10, Linux : above kernel Ver.2.4x/2.6x/3.x.x/4.x.x, Android : above Ver.2.3 to 9

IMEW320

(3) MECHANICAL SPECIFICATIONS

ITEMS	SPECIFICATION
Outline Dimension (HxVxD)	781.5±1.2mm x 476±0.8mm x 62±0.3mm(Without Handle)
Weight(Net/ Gross)	16.5Kg Approx./ TBD
Standard Accessory	HDMI Cable, USB Cable, Power Cord, Remote control
VESA Mount Size	400 x 200 (mm) ,4-M6

(4) CONNECTOR INTERFACE

ITEMS	DESCRIPTION	
HDMI	HDMI 2.0 x1	
DVI	DVI-I Dual-Link (Only Support DVI-D Dual-Link Signal)	
VGA	D-SUB 15pin Female	
Headphone Output	3.5ø Stereo Phone Jack	
USB (Touch Interface)	Connector	USB Type 'B' Female
	Power	USB Bus Powered
	Protocol	Human Interface Device(HID)
	Operation	Plug & Play
	Speed	USB 1.1 Full Speed

　※**Notice 1 : Do not set battery mode or power save mode in computer power option.**
　※**Notice 2 : The standard of USB communication length is 5M(refer to usb.com)**
　When you use USB extension Cable, data loss and degradation might be able to be occurred.
　In order to minimize data loss and degradation according to USB extension Cable using,
　We highly recommend Repeater using to provide external power supply.

(5)ENVIRONMENTAL CONDITIONS

ITEMS	SEPECIFICATION
Operating Temperature	0 ~ 50 ˚C
Operating Humidity	10 ~ 90% (Non Condensing)
Storage Temperature	-20 ~ 60 ˚C
Storage Humidity	10 ~ 90% RH(Non Condensing)

(6) ELECTRICAL SPECIFICATIONS

ITEMS	SEPECIFICATION
Power Supply	AC 100V~240V (50/60Hz)
Power Consumption	Max. 1A

IMEW320