

# **USER MANUAL**

**FHD Interactive Flat Panel Display  
(Vidi-Touch Navigator)**



## **NOTICES**

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### **General**

Every effort has been made to ensure accuracy, however in some cases changes in the products or availability could occur which may not be reflected in this document. We reserve the right to make changes to specifications at any time without notice. Performance specifications are typical, but may vary depending on conditions beyond our control such as maintenance of the product in proper working conditions. Performance specifications are based on information available at the time of printing. We makes no warranty of any kind with regard to this material, including, but not limited to, implied warranties of fitness for a particular purpose. We will not be liable for errors contained herein or for incidental or consequential damages in connection with the performance or use of this material. The manufacturing facility is ISO 9001 and 14001 certified.

### **REGULATORY**

The product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part of KC,CE, FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense.

### **Environmental**

The product is designed and manufactured with high-quality materials and components that can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from regular waste. Please dispose of the product appropriately and according to local regulations. In the European Union, there are separate collection systems for used electrical and electronic products. Please help us to conserve the environment we live in!

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# 1 Before using the product

- Before installing or using the product, to avoid damaging the product, read and follow as the guidelines of the user manual for your safety.
- The color, design and specification may change without notice to enhance the function.

## 1.1 Safety Precautions

Precautions are divided into two "Warning" and "Caution", and meaning of the each is as follows.



Warning: If you do not follow, it could result in serious injury or death.



Caution: If you do not follow, it could result in minor injury or product damage.

Please keep users to access **USER MANUAL** easily.



This illustration below is for reference only.



### Warning



Do not use a damaged power cable or plug which does not meet the standard.  
- This may cause a fire or an electric shock.



If you are using a power strip, do not use several devices at the same time.  
- Due to the heat generated by the multi-outlet, it may cause fire.



Do not touch the power plug with wet hands.  
- This may cause an electric shock.



Plug in the outlet end exactly.  
- If the connection is not stable, it may cause fire.



Connect the power cable to a grounded outlet.  
- This can cause electric shock when the ground is broken or shorted.  
- When installing on a place that cannot be grounded, connect to the outlet by using a circuit breaker to protect the product from electric shock.



Do not pull or bend the power cable forcibly.  
Avoid placing heavy objects on the cables.  
- If the cable is damaged, it may result in electric shock or a fire.



Do not use the power cable near heating appliances and products.  
- This may cause a fire or electric shock.



In case of contamination around the power plug or outlet, wipe clean with a dry cloth.  
- This may cause a fire.



Do not place flammable objects near the product.  
- This may cause a fire.



If you want to install by using the wall mount, make the product be installed by a trained technician. Refer to the User Guide Wall Mounting.  
- This may cause injury.



Do not install the product in poorly ventilated places such as a bookshelf or closet.  
- Otherwise it may affect internal temperature to be increased and cause a fire.



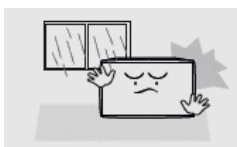
Install the product at least 10 cm far from the wall.  
- Otherwise it may affect internal temperature to be increased and cause a fire.



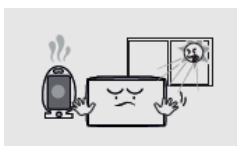
After unpacking the product, packaging vinyl should be kept away from the hands of young children.  
- If a child uses it incorrectly, it may cause a choking accident.



Do not install in locations where has vibration or in an unstable position.  
- Product fall may occur and it might cause damage.  
- This may cause a fire.



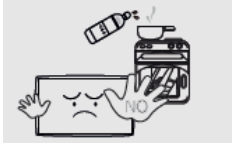
Do not install in places which dirt, moisture, smoke, much water or rain water can reach.  
Do not install under the air conditioner that could fall water drops.  
- This may result in electric shock or fire.



Avoid exposure to direct sunlight and do not place near hot objects such as a fire or heater heat.  
- This may cause a fire or shortening the product life.



Do not install in the low place where a child can touch.  
- A child may be injured while playing and touching the product.



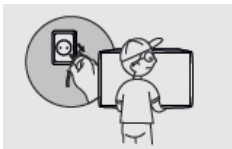
Do not install near any kitchen or kitchen counter because it may cause damage or deformation of the product by the vapor or oil.  
- This may cause a fire.



Do not try to repair or transform the product because the high voltage can flow inside the product.  
- This may cause a fire or electric shock.  
- When problem is found in the product, contact a service center.



Do not use electrical equipment which uses high-voltage around the product.  
- This may result in poor quality of display or cause amblyopia.  
- This may cause a fire or electric shock.



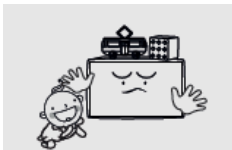
When moving the product, turn off the power and remove all of the cables including power cables connected to the product.  
- If the cable is damaged, it may cause a fire or electric shock.



When smelling something burning or hearing strange sound from the product, disconnect the power cable immediately and contact a service center.  
- This may cause a fire or electric shock.



Do not allow a child to get on or hang on the product.  
- If the product falls off, a child may result in injury or death.



Do not place heavy object, toy or sweets that a child can play with on the product.  
- If a child hangs the product and fall, it may cause personal injury or death.



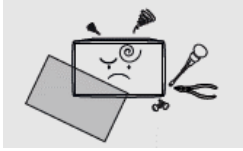
When the product is damaged or falls off, disconnect the power cable immediately and contact a service center.  
- This may cause a fire or electric shock.



When lightning occurs, turn off the power switch and disconnect the power cable.  
- This may cause a fire or electric shock.



Do not drop the product or throw something to the product.  
- This may cause a fire or electric shock.



Do not give a shock or scratch to the screen with sharp objects.  
- This may cause damage to the product.



Do not pull the power cable or signal cables connected to the product when moving the product.  
- Cable damage may cause a malfunction or an electric shock or fire.



Do not shake or uplift a product by holding only the power cable and signal cable.  
- Cable damage may cause a malfunction or an electric shock or fire.



If you smell a gas around the place of the product or there is a risk of a gas leakage,  
Do not plug in or turn on the product. Make sure to ventilate.  
- A spark in the appliance power can cause an explosion or fire.



Do not store or use flammable material and flammable sprays near the product.  
- This may cause an explosion or fire.



Please do not block a vent with the curtain or cloth, etc.  
- The rise of internal temperature may cause a fire.



Do not put a steel rod, coin, hair pin etc. in the vent and input/output terminals of the product.  
Also, do not put a flammable object such as papers.  
- When a strange substance enters into the product, turn off the power of the product. Please contact the Service Center after unplugging the power cable.  
- This may cause a malfunction or an electric shock or fire.



Do not place anything containing liquid or metals on the product.  
- When a strange substance enters into the product, turn off the power of the product. Please contact the Service Center after unplugging the power cable.  
- This may cause a malfunction or an electric shock or fire.

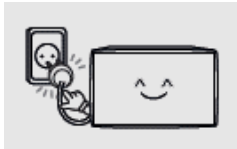
## Caution



Do not unplug the power cable while using the product.  
- This may cause a fire or electric shock.



Use only the power cable qualified for the standard.  
- This may cause a fire or electric shock.



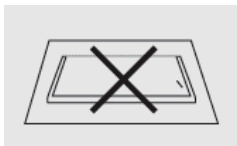
Connect the power cable to the nearest outlet.  
- If having a problem with the product, unplug the power cable completely.



When disconnecting the power cable from the outlet, do not pull the cable wire.  
Please be sure to hold the plug and separate it.  
- This may cause a fire or electric shock.



Please move the product carefully not to occur the twist and drop.  
- This may cause a malfunction or injury.



Put the product's screen faces upwards.  
- The screen may be damaged.



Work together more than one person if the product is heavy.  
- This may cause a malfunction or injury.



When installing the product on a cabinet or shelf, use the larger size of the tray than the product to use and maintain the horizon.  
- The product may fall and cause damage or injury.



Please do not shock when installing the product.  
- This may cause a malfunction.



When installing the product in a special place, contact a dealer or a service center because the peculiar environment can be effected to the event of a problem with the  
- This may cause a malfunction or fire.

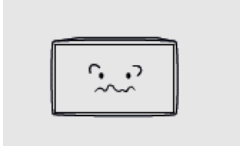


Turing on the product in the condition of the fixed screen or 4:3 screen for a long time may also cause an afterimage or stain on the screen.  
- When using the product for a long time, set a screen saver of the connected computer or signaling equipment products or set it in sleep mode.



When you are not using the product for a long time, after unplugging the power cable and take action to prevent the product from a dust.  
- Dust accumulation, heat generation or sparks can occur and cause fire.

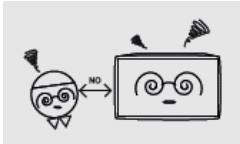




Set a resolution and frequency appropriately to the product.  
- The state of the screen can result in poor or blurred vision.



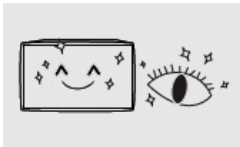
For products with a stand, do not move the product by holding only the stand or lift the product upside down.  
- The stand might be split from the product and it may cause damage or injury.



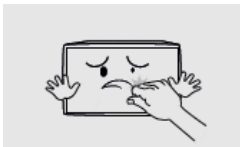
Look at the screen from a distance of about longer 2.5 times than the screen diagonal length.  
- Looking at the screen for a long time can lead to vision loss.



Do not use anything that causes the water vapor near the product. (Moisturizers, etc.).  
- This may cause a malfunction or an electric shock or fire.



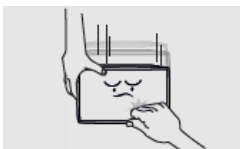
After 1 hours use, rest your eyes for more than 5 minutes.



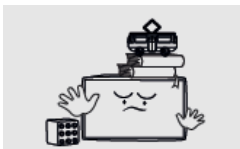
If the product is turned on for a long time, do not touch the screen surface or vent because it may be hot.



Keep the accessories of the products out of reach of children.



For products with a stand, be careful when adjusting the angle and height of the stand of the product.  
- Tilting severely the product may cause the product to fall off and injury.  
- Stuck a finger or hand may cause an injury.



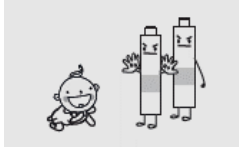
Do not place heavy objects on the product.  
- This may result in a malfunction or an injury.



Please put obstacles away from the space between the remote controller and the product.  
- The product may not be operated by remote controller.



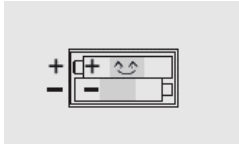
The remote control may not be good in this operation under the sun or strong light.  
Please change the location of the product in this case.



Make sure that a child does not eat the battery and keep it out of a child's reach.  
 - If a child eats the battery, please consult a doctor immediately.



When replacing the battery, insert it to the correct polarities (+, -).  
 - If it is different from the polarity of the battery, it may cause a fire or injury to break or leak.  
 - This may also contaminate the surrounding.



Use a standard battery; do not mix old batteries with new one.  
 - If it is different from the polarity of the battery, it may cause a fire or injury to break or leak.  
 - This may also contaminate the surrounding.



The depleted Battery and rechargeable batteries must be handled separately from the general waste and it needs to be collected for recycling.  
 - If the end-of-life battery, please bring your nearest recycling center or battery dealer  
 - This may cause an explosion or fire.

## Cleaning



After disconnecting the power cable, wipe contaminated parts and each part of the product screen lightly with a dry and soft cloth.

Do not clean the product directly with a wet cloth or wet spray water.  
 - There is a risk of fire or an electric shock.

When washing by various cleaning agents, brighteners, abrasives, waxes, benzene, alcohol, solvent, surface active agent, the surface of the product may be damaged.



If cleaning inside the product is required, please contact your dealer or service center.

- This may result in fire or electric shock.

## 2 Preparations

### 2.1 Parts List



If these items are missing, contact your dealer or service center.



The following images may differ from the image shown.



Other parts not packed in contents may cause performance degradation or problem during use.



HDMI Cable



Power Cable  
(Option)



Remote  
Controller



AAA 1.5V  
Battery x 2



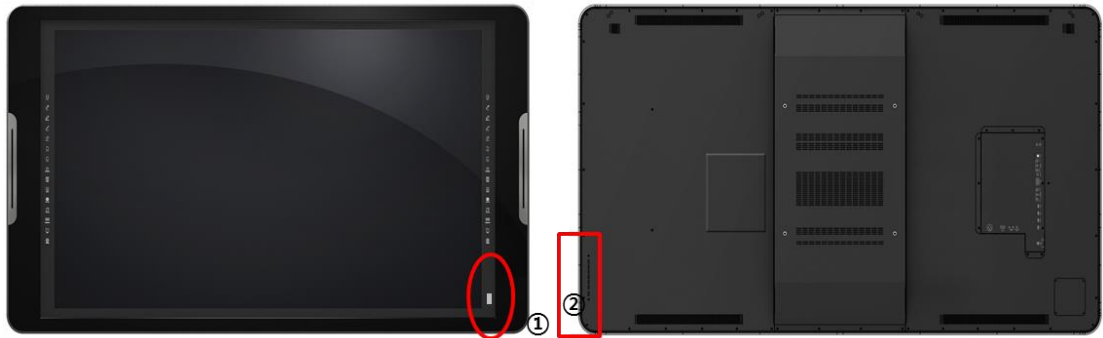
Touch USB Cable  
& Extension cable

## 2.2 Control product



The following images may differ from the image shown.

- You can control the product by using the control buttons on the rear side of the product.



### Remote Sensor / Power indicator - ①

Power on	Green
Stand-by	Red
Power Saving (Eco)	Red
Power Saving (Normal)	Orange or Red/Green Blinking

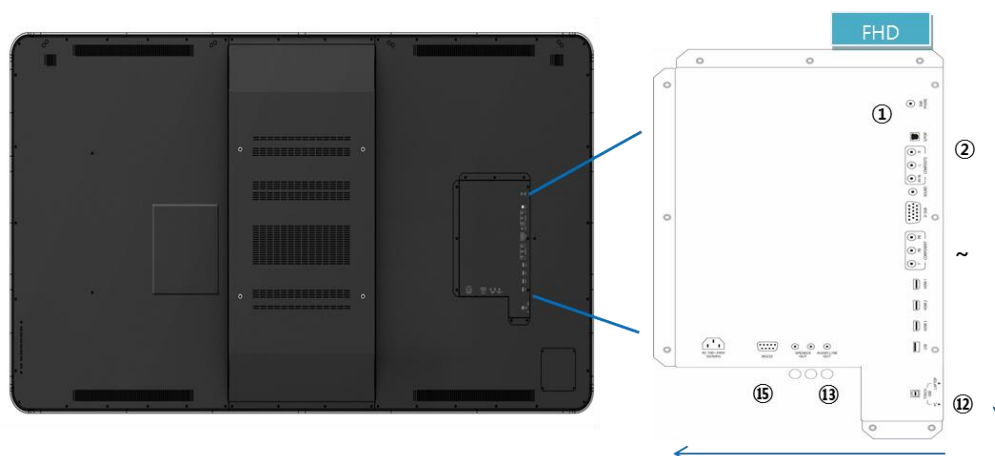
### Control buttons – ②

<b>Up</b>	When a menu is visible in-screen, this button operates identically to the up-arrow.
<b>Down</b>	When a menu is visible in-screen, this button operates identically to the down-arrow.
<b>Vol-</b>	Press this button to decrease the volume. When a menu is visible on-screen, this button operates identically to the left-arrow button.
<b>Vol+</b>	Press this button to decrease the volume. When a menu is visible on-screen, this button operates identically to the right-arrow button.
<b>Source</b>	To select a source, press the source button repeatedly.
<b>Menu</b>	Press this button to display the on-screen display OSD, or to exit the on-screen display and return to the previous one.
<b>Power</b>	Turns the power on/off.

## 2.3 Input/output connection



The items may differ from the image shown.



### Connector name and description

No.	Connector	Description
①	Earphone	To connect audio output
②	SPDIF	To connect SPDIF
③	Composite	To connect composite for VCD/DVD etc.
④	Audio In	To connect audio input (3.5Φ)
⑤	VGA In	To connect VGA video input
⑥	Component	To connect component for VCD/DVD etc.
⑦	HDMI 1 In	To connect HDMI 1.4 video & audio input – 1
⑧	HDMI 2 In	To connect HDMI 1.4 video & audio input – 2
⑨	HDMI 3 In	To connect HDMI 1.4 video & audio input – 3
⑩	USB In	To connect with USB device
⑪	Touch USB(PC)	To connect Touch USB(PC)
⑫	Touch USB(LAPTOP)	To connect Touch USB(LAPTOP) - Priority
⑬	Audio Out	To connect audio output
⑭	Speaker Out	To connect External Speaker
⑮	RS-232C In	To connect RS232 input cable with control device (D-sub 9pin)
(16)	Power Input	Power connector (AC 100-240V, 50/60Hz)

### - USB Multi media playback format

Media	File Ext.	Detail
Music	WMA, MP3, M4A, AAC	.wma, .mp3, .m4a
Photo	JPG, BMP, PNG	.jpg, .bmp, .png
Movie	MPEG1, MPEG2, MPEG4, H264, RM, RMVB, MOV, MJPEG, VC1, Divx, FLV	.avi, .mpg, .dat, .vob, .div, .mov, .mkv, .rm, .rmvb, .mp4, .mjpeg, .ts,

		.trp, .wmv, .asf, .flv
TXT	.TXT	



### Caution

- When you connect the signal cables to the input / output terminals, check the above picture of the input / output terminal, and connect in the right direction. If connected incorrectly, it may cause damage or breakdown of the input / output terminals.
- If the product does not operate even though the power is supplied, check if the power switch is set to power-on or not.

## 2.4

## Remote Controller Button Description

### Button Description



The following images may differ from the actual items.




Button not described does not work.

<b>POWER</b>	Power on/off button
<b>SOURCE</b>	Select input signal
<b>ASPECT</b>	Adjust the window's ratio
▲	Move to the upper menu
▼	Move to the lower menu
◀	Move to the left menu
▶	Move to the right menu
<b>OK</b>	Select to change menu
<b>MENU</b>	Display or hide menu on the screen
+	Volume up
-	Volume down



## 3 Installation Guide

### 3.1 Caution before installation

 **Caution:** Installation must be performed by a qualified custom video installation specialist under the conditional installation environment as below.

#### **Ambient Lighting**

- When the sun or strong light shines on the front screen of the product, image contrast can be seen as it is decreased conspicuously or the image is fading.
- If direct sunlight or strong artificial light (halogen lamps, etc.) shines on the front screen of the product (if the product has touch function, it may cause of malfunction of touch.), install the product in the shady environments or in the opposite direction of the source of the sunshine or the artificial light.

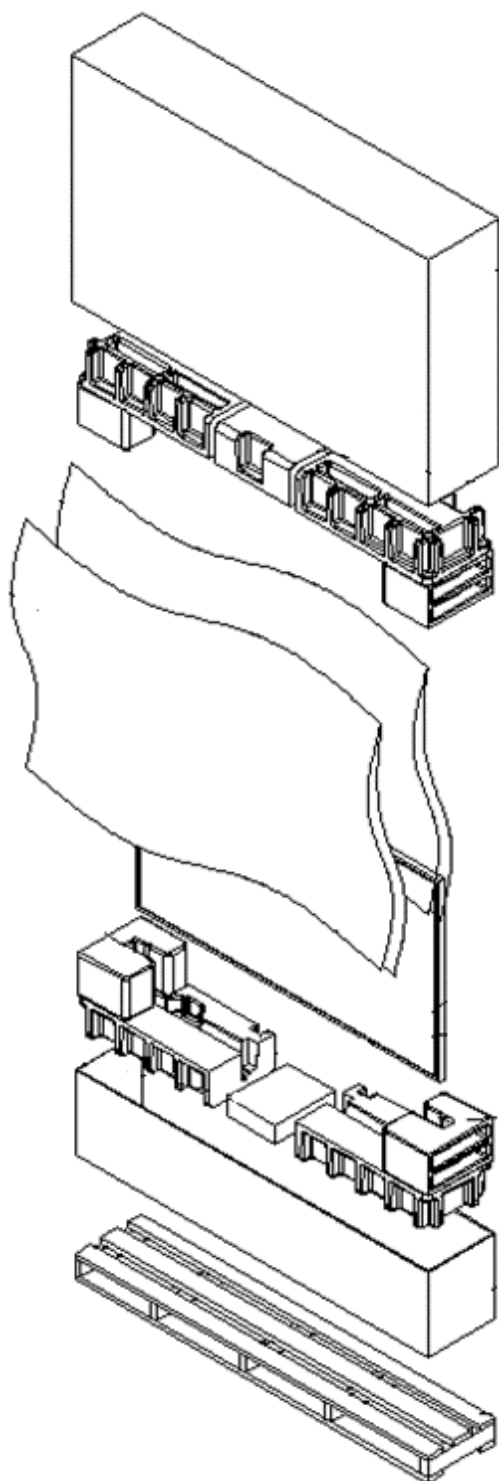
#### **Ambient temperature**

- Install the product in the well-ventilated place with maintaining the ambient temperature of below 35° C (95° F).

### 3.2 Unpacking Process



The following mages may differ from the actual items.  
Before unpacking the box, refer to the diagram below.



1. Remove the outer packing box.

2. Remove the top foam.

3. Lower down or remove the wrapping.

4. Three or more people, remove the packing from the product.

### 3.3 Handling Guide



The following mages may differ from the actual items.



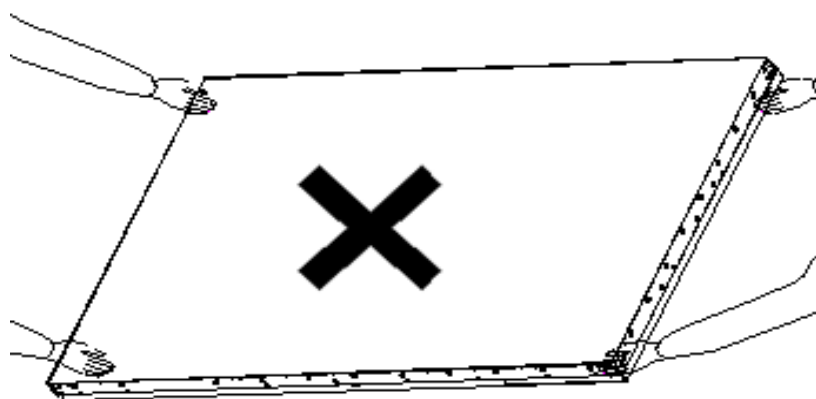
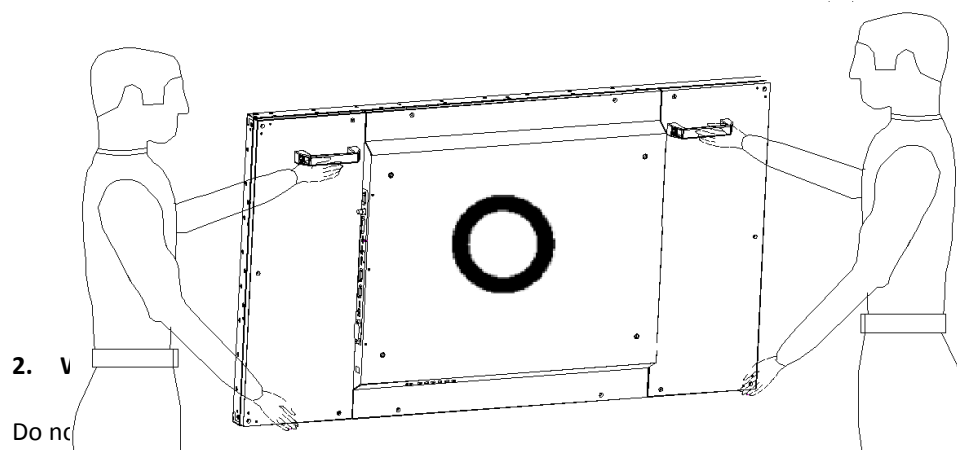
## Holding a product

### 1. Right way

At least two persons are required to handle the product during transportation.

Two persons should hold the each left and right handle of the backside of the product with one hand of the each person and with the other hand, grip the bottom portion of the rear side of the product to move.

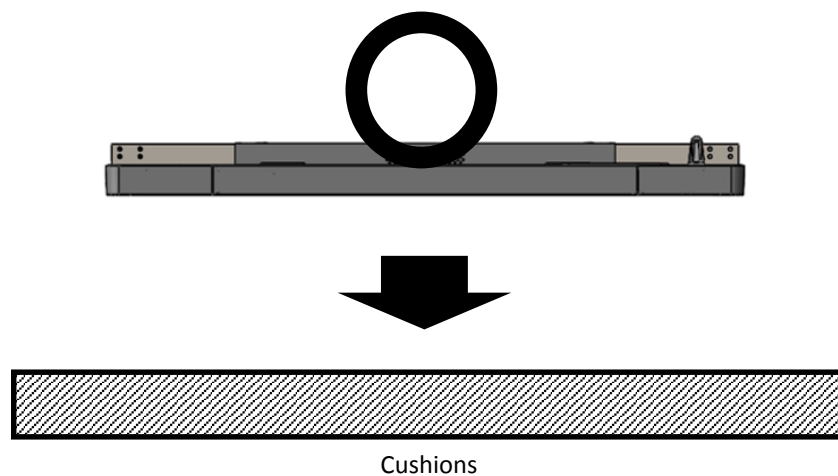
(The illustration below may differ from the actual items.)



## Putting a product

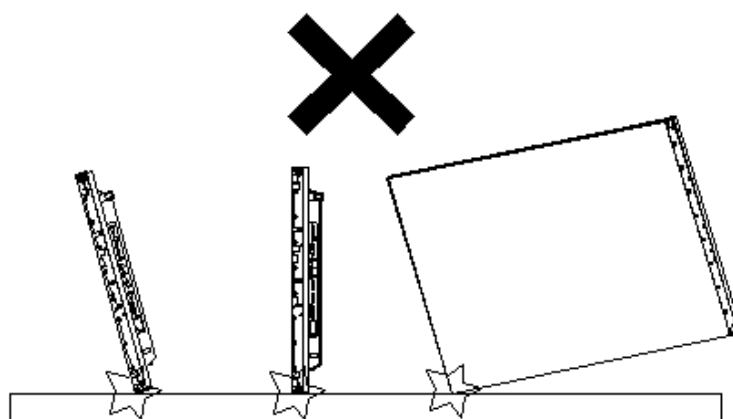
### 1. Right Way

Before putting the product on the floor, prepare flat and soft cushions. Place the product horizontally and slowly on the floor. If firstly laying the edge of the bezel of the product, the screen panel of the product may be fragile or damaged.




## 2. Wrong way

Put down carefully not to damage the outside of the product. If the corner part of the product is placed first, the bezel may be damaged easily.



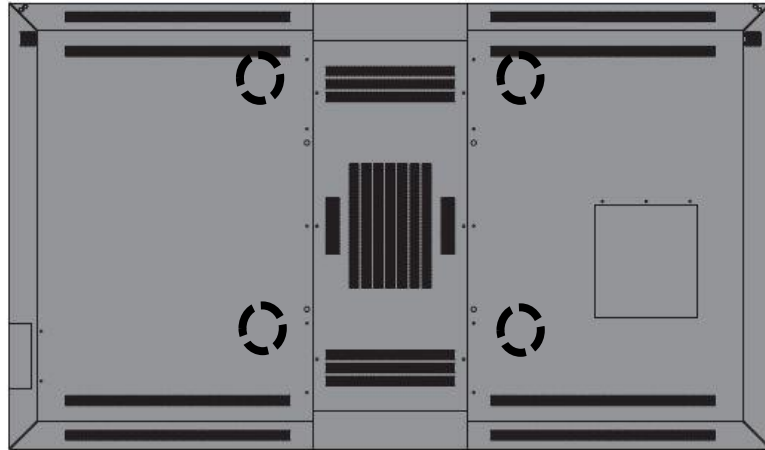
## 3.4 Product Installation

When installing the product with wall mount, make the product installed by a well-trained technician. Please refer to the User Guide of Wall Mounting.

 The product has VESA standard of 600 X 600 MM for wall mounting, and of M8

(Maximum length 35mm) of the screws by size.

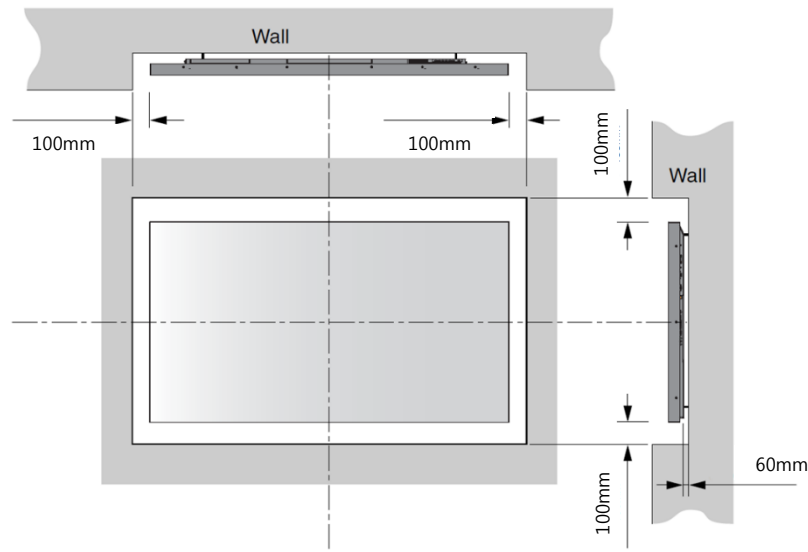
**⚠ Warning:** We are not responsible for the product damage or personal injury caused by user's own installation.



### 3.5 Wall mounting Installation

Install the product only on the robust and vertical wall. When installing inside the wall or cabinet, install the product with the space behind between the product and the wall as the illustration below.

Ambient temperature is kept below 35 °C.

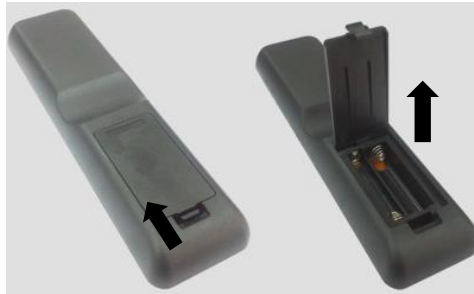


### 3.6 Remote Controller

#### Inserting batteries in the remote controller

- Press the tab on the battery case and open it.
- Insert the battery (1.5V AAA) into the battery case.

- Insert the battery case until click sounds.



- When loading the battery, check if the polarity of the batteries is correct.
- If not using the remote controller for long time, remove the batteries to prevent damage caused by battery fluid leak.
- Don't expose the battery to direct sunlight or excessive heat such as a fire.



#### **Notes on the remote controller**

- If anything interrupts in front of IR receiver or between IR receiver and remote controller, the remote controller may not work.
- If the receiving distance of the remote controller becomes narrow or does not work, replace the battery with new one.
- In case of the product is exposed to direct sunlight or fluorescent light, it may not operate.

## 3.7

## Setup

### **Turning on the power**

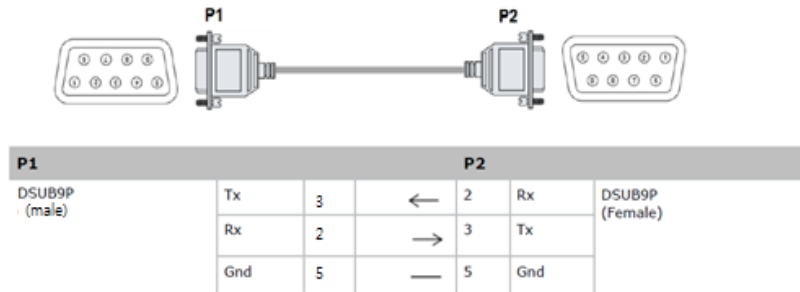
1. Connect the power cable of the product into outlet with AC 100-240V 50 / 60Hz.
2. Turn on the main AC power switch.
3. If the power indicator is green, the screen turns on automatically.
4. If the power light is red not green, press the power key on the remote controller or operate to turn on the power.

### **Changing language of the menu**

- The language of the menu is basically English as the default set.
- Users can select a language
- To change the menu language,
  1. Press the Menu button to go to the menu.
  2. Select the Setup from the main menu.
  3. Select the language of the Setup menu..
  4. Select the language you want to select, and then exit the menu.

## 4 Remote Control

### 4.1 RS-232C connection



Communication Parameter

Baud Rate	9600
Data Length	8 bit
Parity Bit	None
Start Bit	1 bit
Stop Bit	1 bit

Serial Command List

Description	Command	Value	Reply
Power Key Off	CMD_POWER_ON	50 4F 57 45 52 20 4F 4E 0D	
Power Key On	CMD_POWER_OFF	50 4F 57 45 52 20 4F 46 0D	
Source change to HDMI1	CMD_SOURCE_HDMI1	53 4F 55 52 43 45 20 48 44 4D 49 31 0D	
Source change to HDMI2	CMD_SOURCE_HDMI2	53 4F 55 52 43 45 20 48 44 4D 49 32 0D	
Source change to HDMI3	CMD_SOURCE_HDMI3	53 4F 55 52 43 45 20 48 44 4D 49 33 0D	
Source change to HDMI4	CMD_SOURCE_VGA	53 4F 55 52 43 45 20 56 47 41 0D	
Source change to D-SUB	CMD_SOURCE_CVBS	53 4F 55 52 43 45 20 43 56 42 53 0D	
Source change to component	CMD_SOURCE_YPbPr	53 4F 55 52 43 45 20 59 50 62 50 72 0D	
Source change to USB	CMD_SOURCE_USB	53 4F 55 52 43 45 20 55 53 42 0D	
Volume Up	CMD_VOL_INC	56 4F 4C 20 49 4E 43 0D	
Volume Down	CMD_VOL_DEC	56 4F 4C 20 44 45 43 0D	
OSD menu	CMD_KEY_MENU	4B 45 59 20 4D 45 4E 55 0D	
Key Up	CMD_KEY_UP	4B 45 59 20 55 50 0D	
Key Down	CMD_KEY_DOWN	4B 45 59 20 44 4F 57 4E 0D	
Key OK	CMD_KEY_OK	4B 45 59 20 4F 4B 0D	
Key Left	CMD_KEY_LEFT	4B 45 59 20 4C 45 46 54 0D	
Key Right	CMD_KEY_RIGHT	4B 45 59 20 52 49 47 48 54 0D	
Key Prev	CMD_KEY_PREV	4B 45 59 20 50 52 45 56 0D	
Key Rew	CMD_KEY_REW	4B 45 59 20 52 45 57 0D	
Key FF	CMD_KEY_FF	4B 45 59 20 46 46 0D	
Key Next	CMD_KEY_NEXT	4B 45 59 20 4E 45 58 54 0D	
Key Play	CMD_KEY_PLAY	4B 45 59 20 50 4C 41 59 0D	
Key Stop	CMD_KEY_STOP	4B 45 59 20 53 54 4F 50 0D	
Key Freeze	CMD_KEY_FREEZE	4B 45 59 20 46 52 45 45 5A 45 0D	
Key Mute	CMD_KEY_MUTE	4B 45 59 20 4D 55 54 45 0D	
Key Exit	CMD_KEY_EXIT	4B 45 59 20 45 58 49 54 0D	

## 5 Connect the external device

### 5.1 HDMI Connection

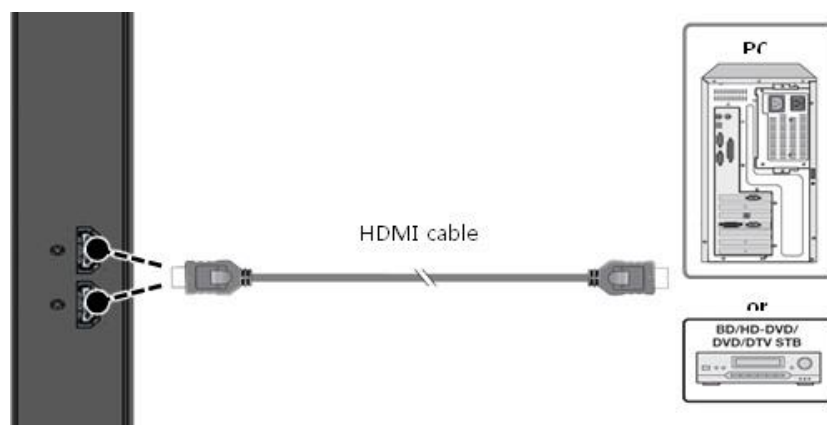
- HDMI input is recommended because it receives a digital signal input from an external device with HDMI output to ensure high quality of digital signal.

\* Use the cable provided with the product. Otherwise, no image may be shown on the screen or normal display may not be shown.

- If connecting the product to the PC, it supports the VESA Display Data Channel (DDC) standard. This standard supports "plug and play" function which helps the PC recognize the product automatically to output the optimal resolution.

In order to operate the 'plug and play' after connecting the product, connect the video cable of the PC to the product before turning on your PC, and turn on the power of this product first and then turn on the power of the PC.

- When the incompatible resolution of the input signal is input to the product no image is shown on the screen or normal display is not shown. As for the supported resolutions, refer to page 42.

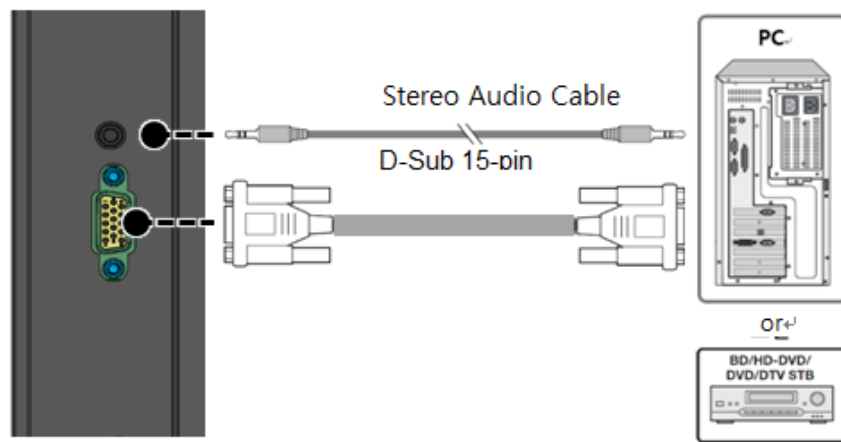


### 5.2 VGA Connection

- To see the video, connect D-Sub 15P cable of the PC to the VGA In port of the product.
- If connecting the product to the PC, it supports the VESA Display Data Channel (DDC) standard. This standard supports "plug and play" function which helps the PC recognize the product automatically to output the optimal resolution.

In order to operate the 'plug and play' after connecting the product, connect the video cable of the PC to the product before turning on your PC, and turn on the power of this product first and then turn on the power of the PC.

- When the incompatible resolution of the input signal is input to the product no image is shown on the screen or normal display is not shown. As for the supported resolutions, refer to page 42.



# 6 Touch Requirements

## Touch Requirements

### Computer Configuration (Recommended):

- 3.0 GHz quad-core processor
- 8 GB RAM
- 10 GB available hard disk space
- 1 GB NVidia GTX330 graphics card

### OS Compatibility

Operating System	Release Name	Version	Touch Sensor	T3kCfg program	Misc
Linux	Ubuntu	under 10.10	X	X	
		11.04	O	O	
		11.10	O	O	
		12.04.1	O	O	
		12.10	O	O	
		13.04	O	O	Multi-touch Digitizer support
		13.10	O	O	Multi-touch
		14.04	O	O	Multi-touch
		14.10	O	O	Multi-touch
		15.04	O	O	Multi-touch
Mac OS X	under Leopard	10.5.8	X	X	
	Lion	10.7	O	O	wheel inverted
	Mountain Lion	10.8	O	O	wheel inverted
	Mavericks	10.9	O	O	wheel inverted
	Yosemite	10.10	O	O	wheel inverted (T3k 2.8f is recommended)
Windows	XP	SP2	O	O	
		SP3	O	O	
	Vista		O	O	
	7	Basic or Lower	O	O	Mouse Only
		Home Premium or higher	O	O	Multi-touch Digitizer support
		OEM	O	O	Mouse Only
	8, 8.1	PRO	O	O	Multi-touch Digitizer support
		RT	X	X	
Android	under Honeycomb		X	X	
	Ice Cream Sandwich		O	X	Kernel Driver needed (Kernel 3.0.5 or above)
	Jelly Bean		O	X	Kernel Driver needed (Kernel 3.0.5 or above)
	KitKat		O	TBD	kernel 3.8 or above, Driver is not needed



# 7 Menu Control

## 7.1 Input selection

Press the Input button and then select ▲ or ▼, or the input you want to select, and then press the ► (+) button.

Input	Description
AV	Composite
Component	Component input
HDMI1	HDMI1 input
HDMI2	HDMI2 input
HDMI3	HDMI3 input
PC	VGA input
USB	USB input



## 7.2 User function

Upper	Lower-1	Lower-2	Value	Note
Video	Picture	Picture mode	Dynamic, Theater Personal, Standard	(Default: Dynamic)
		Contrast	0-100	(Default: 60)
		Brightness	0-100	(Default: 50)
		Sharpness	0-100	(Default: 50)
		Tint	0-100	(Default: 50)
		Color	0-100	(Default: 50)
		Color Temperature	Normal, Warm, Cool Cinema, Zoom	(Default: Normal)
		Zoom Mode	Point to point, 4:3, 16:9, Full	(Default: Point to Point)
		3DNR	Middle, Weak, Strong, Off	(Default: Middle)
		Backlight Mode	Personal, Low, Middle, High	(Default: Personal)
		Backlight	0-100	(Default: 100)
		DLC	On, Off	(Default: On)
		MEMC	On, Off	(Default: Off)
Audio	Audio	Equalizer	Standard, Music, Movie, Sport, Personal	(Default: Standard)
		120Hz	50	
		500Hz	50	
		1.5KHz	50	
		5KHz	50	
		10KHz	50	
		Audio Language	English, Spanish, French	
		Digital Output	PCM	
		Surround Sound	On, Off	(Default: Off)

		Audio Only	On,Off	(Default: Off)
		AVC	On,Off	(Default: Off)
		Balance	0-100	(Default: 50)
		Speaker out	On,Off	(Default: On)
		AV output	Fixed, Variable	(Default: Fixed)
		AV out volume	0-100	(Default: 100)
Timer	Timer	Timer	Off, 5-240min	(Default: Off)

Upper	Lower-1	Lower-2	Value	Note
Setup	Setup	Menu Language	English,Spanish,French	(Default: English)
		Transparent	0-100	(Default: 25)
		OSD Time Out	15-60sec	(Default: 15sec)
		Restore Default		
		Software Update (USB)		
		Blue screen	On,Off	(Default: Off)
		No Signal Off	On,Off	(Default: Off)
Lock	Lock			

## 8 Trouble Shooting

The table below provides some general guidelines for trouble shooting problems you may encounter with your product. If the suggested solutions fail to resolve the problem or if you encounter an issue not described here, please contact your dealer or service centre.

Symptom	Checklist & Solution
The power is not turned on. (When the LED light indication is red or orange.)	<ul style="list-style-type: none"> <li>• Turn on power switch of the product or by using remote controller, check if the product is in power saving mode for no input of video signal.</li> </ul>
The power is not turned on. (LED indication that the light is off)	<ul style="list-style-type: none"> <li>• Ensure that the product is plugged in and that the AC outlet is active.</li> <li>• Set the main power switch to the on position.</li> <li>• Try to connect other electric equipment to AC outlet to check if there is no problem in power source.</li> </ul>
The remote controller does not work.	<ul style="list-style-type: none"> <li>• Replace the battery.</li> <li>• If the remote controller receiver of the product is prevented by any object, delete the object and try to operate again.</li> <li>• If the remote controller receiver of the product is exposed to direct sunlight or strong light, try to block the light and operate again.</li> </ul>
The power is on only but the screen does not appear.	<p>When the LED indicator of the product is green, video displays on the screen. Turn on the power of the product by using the power switch or remote controller.</p> <ul style="list-style-type: none"> <li>• Turn off the AC power, and then turn it on again.</li> </ul>
A message of 'Input out of range' is displayed.	<ul style="list-style-type: none"> <li>• Check if a signal with other resolution which the product does not support is input to the product and refer to the details in the page 41.</li> </ul>
Images are not displayed correctly or noise is shown on the screen.	<ul style="list-style-type: none"> <li>• Ensure the cables are connected in and video signal is active.</li> <li>• Change the cable.</li> <li>• Check if a signal with other resolution which the product does not support is input to the product and refer to the details in the page 31.</li> <li>• Connect another product to check if there is no problem, considering the possibility of problem in outer video signal equipment.</li> </ul>
'No Signal' message is displayed.	<ul style="list-style-type: none"> <li>• Check to see if the external signal device is turned on.</li> <li>• Check if computer is on power saving mode by handling the mouse or pressing keyboard to wake.</li> <li>• Check to see if the external signal devices and cables are connected.</li> </ul>

	<ul style="list-style-type: none"> <li>• Check to see if the cable connections are loose or missing out.</li> <li>• Try changing the cable.</li> <li>• Check if the input selection of products is correctly set to an external device by using the SOURCE button on the remote controller.</li> </ul>
HDMI screen is not displayed. Or screen appears strange.	<ul style="list-style-type: none"> <li>• Check to see if the cable connections are loose or missing out.</li> <li>• Try changing the cable.</li> <li>• If you use an HDMI cable not certified, it may result in a problem.</li> </ul>
HDMI display is small or large visible.	<ul style="list-style-type: none"> <li>• Try adjusting video output size of the graphic card in case of computer.</li> </ul>
The color of VGA screen is strange.	<ul style="list-style-type: none"> <li>• Check to see if the cable connections are loose or missing out.</li> <li>• Try changing the cable.</li> <li>• Connect another product to check if there is no problem, considering the possibility of problem in outer video signal equipment.</li> </ul>
The position of VGA screen is strange.	<ul style="list-style-type: none"> <li>• Try adjusting the automatic position by using the menu on the remote controller.</li> </ul>
The screen is too bright and the image is not separated.	<ul style="list-style-type: none"> <li>• From the menu, try making the value of the black level lower on the screen menu setting.</li> <li>• Or try to initialize the screen menu settings.</li> </ul>
The dark area of the screen is too bright	<ul style="list-style-type: none"> <li>• From the menu, try making the value of the contrast lower on the screen menu settings.</li> <li>• Or try to initialize the PICTURE settings.</li> </ul>
Screen looks too dark.	<ul style="list-style-type: none"> <li>• Try to initialize the PICTURE settings.</li> </ul>
Touch screen doesn't work	<ul style="list-style-type: none"> <li>• See Connecting the USB cable to a computer or screen.</li> </ul>

## 9 Product Specification



Product specifications are subject to change without notice.

Product	60"(55"LED)	70"(65"LED)	75"(70"LED)	80"(75"LED)
Dimensions (±5mm)	1488(W) X 819.8(H) X 87.2(D)	1634(W) x 960(H) x 132(D)	1899(W) X 1032.5(H) X 98.86(D)	1840(W) x 1085(H) x 127(D)
Weight	50(?)	68	80	98
Supported OS	Windows and Mac (driverless and calibration free), Linux, Android			
Touch Screen	60"	70"	75"	80"
LED Area	55"	65"	70"	75"
Finish	Aluminum, anodized			
Brightness	350cd/m2	450cd/m2	400cd/m2	400cd/m2
Resolution	1920x1080p			
Panel Maker	LGD or Samsung	LGD	Samsung	Samsung
Contrast ration	1600 : 1	1600 : 1	4000 : 1	5000 : 1
Touch tool	Fingertips or any tips, Multi-touch-supports 10 touch points (4-standard)			
Touch point speed & accuracy (mm)	< 7ms & ±3mm			
Integrated Speakers	15Wx2			
Amplified Speaker Out	15Wx2			
Input/ Output	HDMI 3, Component, Composite, VGA ,3.5 Stereo (in/output), Speaker ( out-analogue), SPDIF, USB for touch(Laptop, PC), USB for service, RS-232			
Mount	VESA			
Packing Dimensions (mm)	1590(W) x 960(H) x 270(D)	1850(W) X 1100(H) X320(D)	1970(W) X 1200(H) X 320 (D)	1930(W) x 1180(H) x 320(D)
Packed Weight (Kg)	57	81	117	117
Accessories	1xHDMI cables(3m), 1 x USB cables, 1 x USB extender, 2 x stylus pen,1 x cleaning cloth			

※ Product design and specification can be changed for quality improvement without prior notice.

## 10 Supported Resolutions

Signal Types	Supported Video Timings	Note
D-SUB	640 x 480 @ 60Hz	
	800 x 600 @ 60Hz	
	1024 x 768 @ 60Hz	
	1280 x 768 @ 60Hz	
	1360 x 768 @ 60Hz	
	1280 x 1024 @ 60Hz	
	1920 x 1080 @ 60Hz	
Component & HDMI	1080p 50Hz / 60Hz	
	1080i 50Hz / 60Hz	
	720p	
	576p	
	576i	
	480p	
	480i	
CVBS	NTSC / PAL	

# 11 Required information

## 11.1 Prevent image sticking

⚠ The fixed image (title, menu image, picture, motionless movie etc.) on the screen is maintained for a long time, image sticking may occur. Image sticking may be subject to operating time of still picture. Since the image sticking is not defect but a characteristic of the product, it is restricted from the product warranty.

Thus, please refer to the following information for the prevention of image sticking.

- When external device (PC) is not used for a long time, please use screensavers.  
(The screensaver should be monochrome or moving image.)
- If 4:3 aspect ratio is used for a long time, image sticking might occur.  
So, it is recommended to use the full screen.
- In case of displaying still picture for long time, change pictures a certain time.

If image sticking is shown, turn off the unit for a while and turn it on again.  
Turn off time may be require