## **User's Guide**

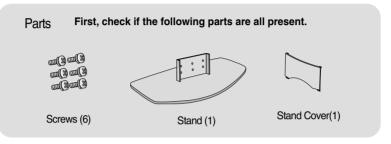


Make sure to read the **Safety Precautions** before using the product. Keep the User's Guide(CD) in an accessible place for future reference. **S**ee the label attached on the product and give the information to your dealer when you ask for service.

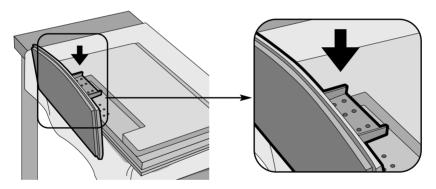


# Connecting the stand

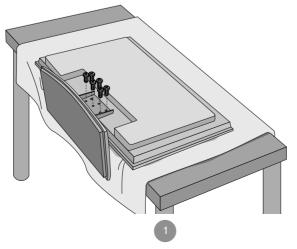
- Only on some models.
- **1.** Take the parts for the stand out of the box and assemble them as shown in the picture.



**2.** Place a soft cloth on the table and put the product with the screen facing downward. Connect the stand as shown in the following picture.

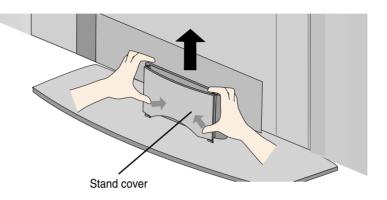


**3.** Use the screws to secure the stand on the rear side of the product as shown in the diagram.



# **Connecting the Stand cover**

- Only on some models.
- 1. Disassemble the stand cover. The cover may be easily disassembled by pressing up on the base as shown in the figure.



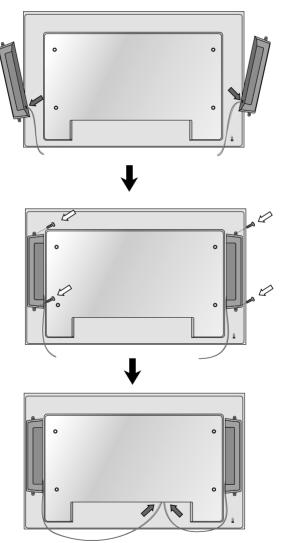
2. After connecting the cables, correctly position the stand cover into the holes on the stand. If securely connected, you will hear the latch click into place.

# **Connecting the Speakers**

- Only on some models.

Mount the product onto the speaker by using a screw as shown in the following connect the speaker cable.

Type 1



When the speaker is installed.

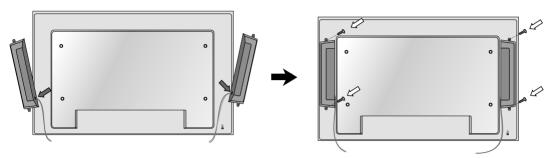
\*Connect the input terminal with a proper color match.

# **Connecting the Speakers**

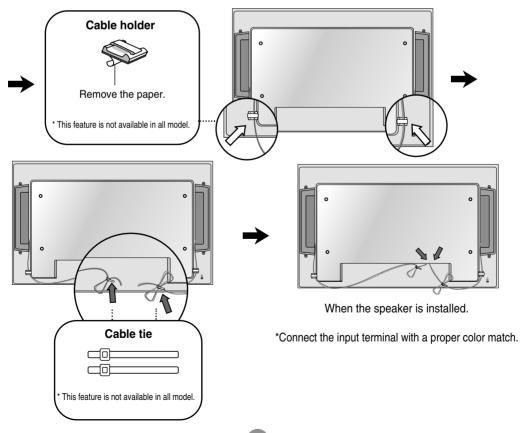
- Only on some models.

Mount the product onto the speaker by using a screw as shown in the following connect the speaker cable.

Type 2

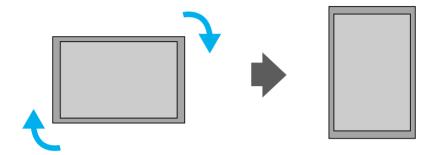


After installing your speakers, use holders and cable ties to organize the speaker cables.

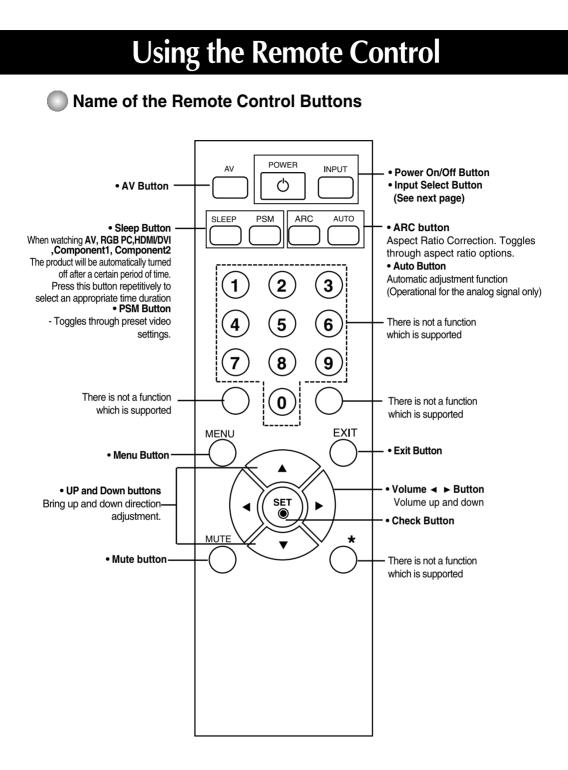


# To install Portrait

- Only M3202C



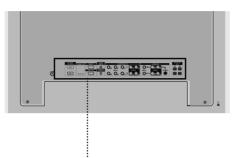
"When installing Portrait, rotate it clockwise based on its front."

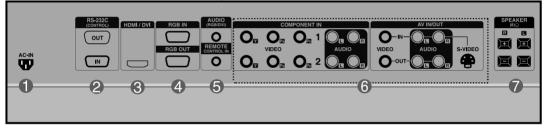


# Name and Function of the Parts

\* The product image in the user's guide could be different from the actual image.

### Rear View





- Power Connector : Connect the power cord
- **Wired Remote Control Port**
- RS-232C Serial Ports
- RGB, HDMI/DVI Ports
- PC Sound Jack : Connect the audio cable to the \*LINE OUT jack of the PC sound card.
- **6** AV Ports
- Speaker Ports

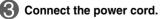
#### \*LINE OUT

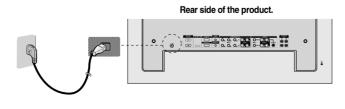
A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume.

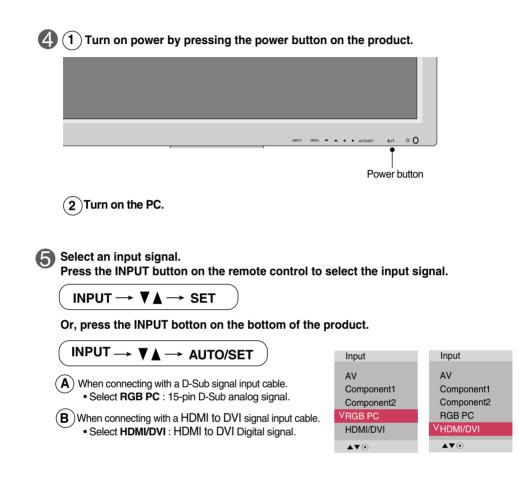
If the Audio Out of the PC sound card supports both Speaker Out and Line Out, convert to Line Out using the card jumper of the program (Refer to the Sound Card Manual).

### When Connecting to your PC First of all, see if the computer, product and the peripherals are turned off. Then, connect the signal input cable. When connecting with the D-Sub signal input cable. A When connecting with the HDMI to DVI signal input cable (not included). В Â BGB IN ..... Rear side of the product. PC/MAC MAC Macintosh Adapter (not included) Use the standard Macintosh adapter since an incompatible adapter is available in the market. (Different signaling system) HDMI / DVI (**B**) (not included) Rear side of the product. PC \* User must use shielded signal interface cables (D-sub 15 pin cable, DVI cable) with ferrite cores to maintain standard compliance for the product. Connect the Audio cable.











• How to connect to two computers.

Connect the signal cables (HDMI to DVI and D-Sub) to each computer. Press the INPUT button on the remote control to select the computer to use.

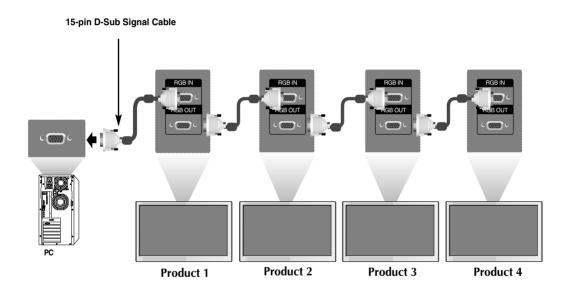
Directly connect to a grounded power outlet or power strip (three prong connector.)

### **Daisy Chain Monitors**

Use this function when displaying ANALOG RGB inputs of a PC to the other product.

#### To use different products connected to each other

Connect one end of the signal input cable(15-pin D-Sub Signal Cable) to the **RGB OUT** connector of **product 1** and connect the other end to the RGB IN connector of other products.

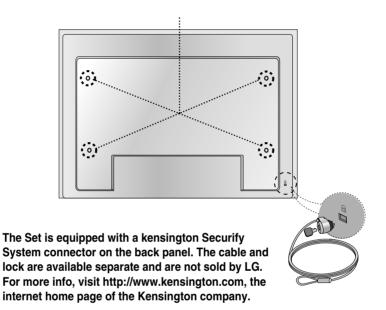


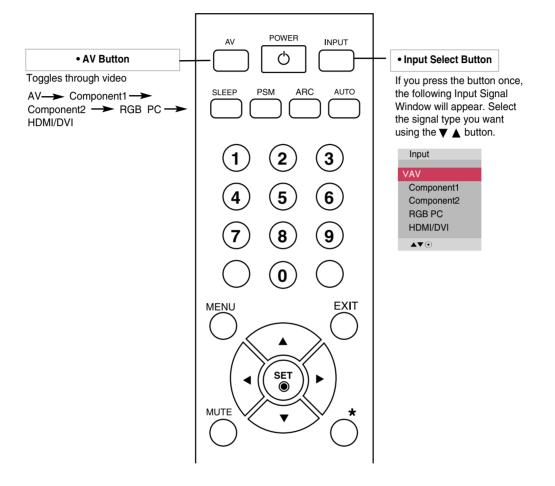


 When multi-connecting in/out cascade format, no loss cables are recommended. We recommend that you should use cable distributor.

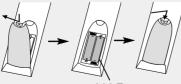
#### **VESA FDMI wall Mounting**

This product supports a VESA FDMI compliant mounting interface. These mounts are purchaed separately and not available from LG. Refer to the instructions included with hte mount for more info.





### Inserting batteries into remote control.



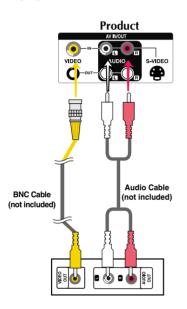
AAA Type

- 1. Slide off the battery cover.
- 2. Insert the batteries with correct polarity (+/-).
- 3. Close the battery cover.
- Dispose of used batteries in the recycle bin to prevent environmental pollution.

### Video Input

Connect the video cable as shown in the below figure and then connect the power cord (See page 8).

- A) When connecting with a BNC cable. · Connect the input terminal with a proper color match.
- $(\mathbf{B})$  When connecting with a S-Video cable. · Connect to the S-Video input terminal to watch high image guality movies.



VCR/DVD Receiver

Product О Audio Cable (not included) S-Video Cable (not included) 

VCR/DVD Receiver

Select an input signal.

Press the INPUT button on the remote control to select the input signal.

 $INPUT \rightarrow \blacksquare \rightarrow SET$ 

Or, press the INPUT botton on the bottom of the product. Input  $INPUT \rightarrow \blacksquare AUTO/SET$ RGB PC When connecting with an BNC cable. • Select AV. When connecting with an S-Video cable. ▲▼⊙ B) • Select AV.

Component1 Component2 HDMI/DVI

Note

• When the BNC cable is connected simultaneously with S-Video cable, S-Video input has a priority.

#### Component Input (480i/480p/576i/576p/720p/1080i) Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page 8). Connect the input terminal with a proper color match. Product Product $(\mathbf{A})$ B O. 0, **O**<sub>2</sub> 1 **BNC Cable** Audio Cable Audio Cable **BNC Cable** (not included) (not included) (not included) (not included) ~ 문 Ъ П < ₽ Р ŏ Т HDTV Receiver HDTV Receiver

#### Note

- Some devices may require HDCP in order to display HD signals.
- Component doesn't support HDCP.



#### Select an input signal.

Press the INPUT button on the remote control to select the input signal.

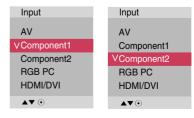
 $\mathsf{INPUT} \to \mathbf{V} \blacktriangle \to \mathsf{SET}$ 

#### Or, press the INPUT botton on the bottom of the product.

#### $INPUT \rightarrow \blacksquare AUTO/SET$

(A) • Select Component 1

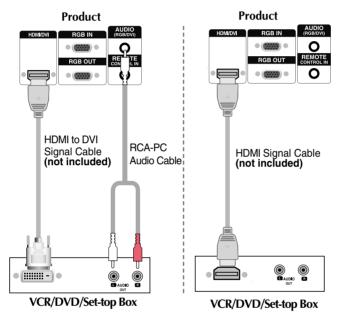
**B** • Select Component 2



### === HDMI Input (480p/576p/720p/1080i/1080p)

-HDMI Supports High Definition input and HDCP (High-bandwidth Digital Content Protection). Some devices require HDCP in order to display HD signals.

Connect the video/audio cable as shown in the below figure and then connect the power cord (See page 8s).



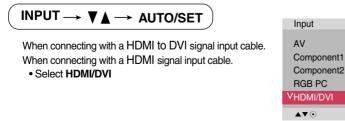
Note : Dolby Digital is not supported.

2

Select an input signal. Press the INPUT button on the remote control to select the input signal.

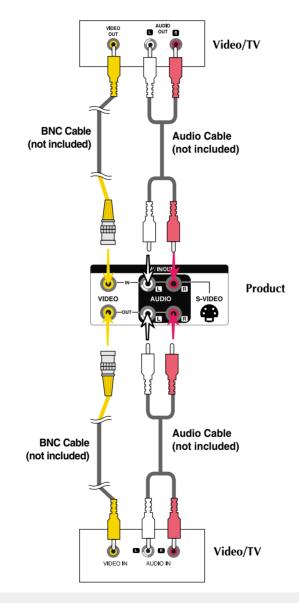
 $\mathsf{INPUT} \to \mathbf{V} \blacktriangle \to \mathsf{SET}$ 

Or, press the INPUT botton on the bottom of the product.



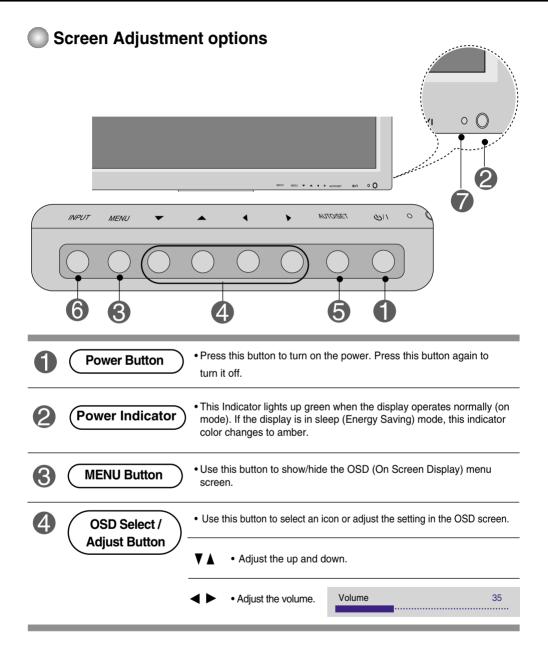
### Watching AV Outputs

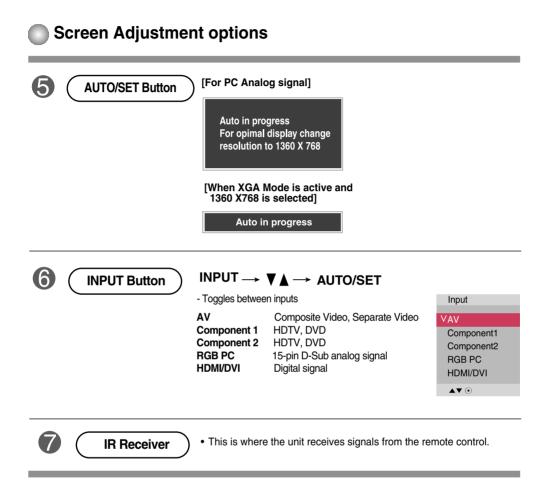
- When using AV input, you can connect the AV Out to other monitors.





 When multi-connecting in/out cascade format, no loss cables are recommended. We recommend that you should use cable distributor.



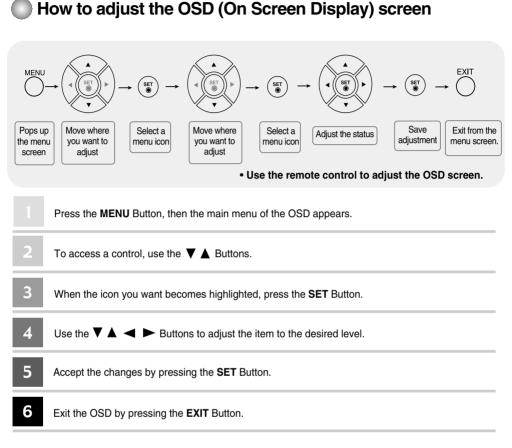




lcon	Function Description
Picture	Adjusts screen brightness, contrast and color that you prefer.
Audio	Adjusts the audio options.
Time	Adjusts the timer options.
Option	Adjusts the screen status according to the circumstances.
Information	Adjust Set ID and check Serial No. and SW version.



**OSD(On Screen Display)** The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.



### How to adjust the screen automatically

Press the AUTO/SET button (AUTO button on a remote Control) in the PC analog signal. Then optimal screen settings will be selected that fit into the current mode. If adjustment is not satisfactory, you can adjust the screen manually.

[When XGA Mode is active and 1360 X768 is selected]

Auto in progress



### Adjusting Screen Color

#### Picture Mode

IV	IC	)(	J	

Picture	
Picture Mode       Color Temperature       Advanced       Aspect Ratio       Picture Reset       Screen	V Vivid Standard Cinema Sport Game User1 User2
<b>▲▼</b> ∢ <b>▶</b> ⊙ MENU	

Toggles between screen presets.

- Vivid : Select this option to display with a sharp image.
- Standard : The most general and natural screen display status.
- Cinema : Select this option to lower brightness by one level.
- Sport : Select this option to display with a soft image.
- Game : To enjoy dynamic image when playing a game.
- User1,2 : Select this option to use the user-defined settings.

User2			
Backlight	20	►	••••••
Contrast	90		
Brightness	50		
Color	50		
Sharpness	50		
Tint	50		
Expert			
<b>▲▼∢</b> ▶⊙ MEN	U		

**Backlight** : To control the brightness of the screen, adjust the brightness of LCD panel. **Contrast** : Adjust the difference between the light and dark levels in the picture.

Brightness : To adjust the brightness of the screen.

Color : To adjust the color to desired level.

Sharpness : To adjust the clearness of the screen.

Tint : To adjust the tint to desired level.

**Expert** : To compensate for each image mode, or adjust image values according to a particular image. (Applied only to User2 menu.)



If the 'Picture Mode' setting in the Picturemenu is set to Vivid, Standard, Cinema, Sport or Game the subsequent menus will be automatically set.



### **Adjusting Screen Color**

#### Color Temperature

	Picture	
	Picture Mode	
	Color Temperature	Cool
	Advanced	∨ Medium
	Aspect Ratio	Warm
-	Picture Reset	User
-	Screen	
i		
	▲▼∢▶ ⊙ MENU	

**Color Settings** 

- Cool : Slightly purplish white.
- Medium : Slightly bluish white.
- Warm : Slightly reddish white. User : Select this option to use the user-defined settings.

User       Red     0       Green     0       Blue     0		
Green 0		
Green 0		
	0	•••••
Blue 0	0	
Diue U	0	
	0	
▲▼∢ ►⊙ MENU	MENU	

Red / Green / Blue

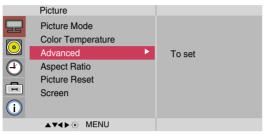
Set your own color levels.





### Adjusting Screen Color

#### Advanced



- Gamma : Set your own gamma value. : -50/0/50 On the monitor, high gamma values display whitish images and low gamma values display high contrast images.
- Film Mode : (Function works in the following mode AV, Component 480i/576i) When you watch a movie, this function adjusts the set to the best picture appearance.
- Black Level : (Function works in the following mode AV(NTSC), HDMI/DVI adjusts the contrast and the brightness of the screen using the black level of the screen.
  - Low : The reflection of the screen gets brighter.
  - High : The reflection of the screen gets darker.
- NR : Removing the noise up to the point where it does not damage the original picture.



## **Adjusting Screen Color**

Aspect Ratio To select the image size of the screen.

Picture	
Picture Mode Color Temperature Advanced Aspect Ratio ► Picture Reset Screen	V 16:9 Original 4:3 14:9 Zoom1 Zoom2
▲▼∢►⊙ MENU	
	Picture Mode Color Temperature Advanced Aspect Ratio ► Picture Reset Screen

<AV>

16:9 Just Scan	Widescreen mode. Allows you to enjoy the transmitted data fully without any images cut off. (* This menu is activated only in 720p, 1080p and 1080i in Component mode.)
Original	The aspect ratio is not adjusted from the original. It is set by the program being watched.
4:3	This picture format is 4:3 aspect ratio.
1:1	The aspect ratio is not adjusted from the original. Used in PC mode. (Only HDMI/ DVI PC, RGB PC)
14:9	14:9 programs are viewed normally in 14:9 with black bars added to the top and bottom. 4:3 programs are magnified on the top/bottom and left/right sides.
Zoom1, 2	4:3 programes are magnified until they fill the 16:9 screen. The top and bottom will be cut off.

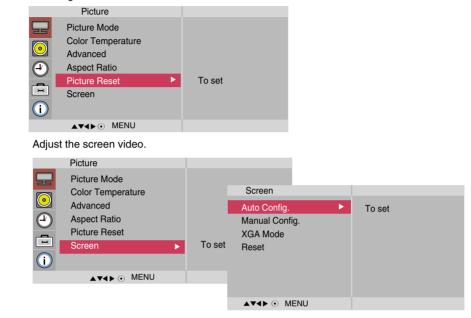
MODE	AV	Component	HDMI/DVI		RGB
ARC	AV	component	DTV	PC	PC
16:9	•	•	•	•	•
Just Scan	Х	•	•	Х	X
Original	•	Х	Х	Х	Х
4:3	•		•	•	•
1:1	×	X	Х	•	•
14:9	•	X	×	Х	X
Zoom1	•	×	Х	Х	Х
Zoom2	٠	×	×	×	×



Screen

### **Adjusting Screen Color**

Picture Reset Return Picture Mode, Color Temperature, Advanced to the default factory settings.



Auto Config. (RGB PC input only) : This button is for the automatic adjustment of the screen position, clock and phase. This function is available for analog signals only. Manual Config. : If the picture isn't clear after auto adjustment and characters are still trembling, adjust the picture phase manually.

\* Phase, Clock function are not available in Component, HDMI/DVI DTV.)

**Clock :** To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change. This function is available for analog signals only. **Phase :** To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters. This function is available for analog signals only.

H-Position : Moving the screen position horizontally.

V-Position : Moving the screen position vertically.

- H-Size : Adjust the horizontal size of the screen.
- V-Size : Adjust the vertical size of the screen.

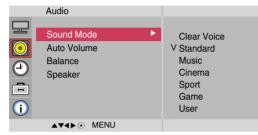
**XGA Mode** (RGB-PC only). : For more improved or better picture quality, select the same mode corresponding to computer resolution.

Reset: Return Manual config. to the default factory settings.



Adjusting the audio function

Sound The best sound tone quality will be selected automatically depending on the video type that you're currently watching.



- Clear Voice : By differentiating the human sound range from others, it helps users listen to human voices better.
- Standard : The most commanding and natural audio.
- Music : Select this option to enjoy the original sound when listening to the music.
- Cinema : Select this option to enjoy sublime sound.
- Sport : Select this option to watch sports broadcasting.
- Game : To enjoy dynamic sound when playing a game.
- User : Select this option to use the user-defined audio settings.

Us	er			
-	•••••••••••••••••••••••••••••••••••••••	•		
0.1	0.5	1.5	5.0	10 кнz
	<b>AV</b>	∢▶⊙	MENU	J

Auto To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select On.

Balance Use this function to balance sound from the left and right speakers.

Speaker You can adjust internal speaker status. If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.



When connected to your computer and the 'Sound Mode' setting in the audio menu is Clear Voice, Standard, Music, Cinema or Sport, the available menus are Balance, Auto Volume, Speaker.

Ad	justing the timer function
	Time Clock
Clock	<ul> <li>If the current time is incorrect, reset the clock manually.</li> <li>1) Press the MENU button and then use V ▲ button to select the Time menu.</li> <li>2) Press the ► button and then use V ▲ button to select the Clock menu.</li> <li>3) Press the ► button and then use V ▲ button to set the hour(00~23).</li> <li>4) Press the ► button and then use V ▲ button to set the minutes(00~59).</li> </ul>
On/Off Timer	<ul> <li>The off time automatically switches the set to standby at the pre-set time.</li> <li>1) Press the MENU button and then use V ▲ button to select the Time menu.</li> <li>2) Press the button and then use V ▲ button to select On/Off Timer.</li> <li>3) Press the button and then use V ▲ button to set the hour(00~23).</li> <li>4) Press the button and then use V ▲ button to set the minutes(00~59).</li> <li>5) Press the button and then use V ▲ button to select On or Off.</li> </ul>
Sleep Time	<ul> <li>The power is automatically turned off when the time set by a user is passed.</li> <li>1) Press the MENU button and then use ▼ ▲ button to select the Sleep Time menu.</li> <li>2) Press the ► button and then use ▼ ▲ button to set the hour(00~23).</li> <li>3) Press the ► button and then use ▼ ▲ button to set the minutes(00~59).</li> </ul>
Auto Sleep	<ul> <li>If Auto Sleep is active and there is no input signal, the set switches to off mode automatically after 10 minutes.</li> <li>1) Press the MENU button and then use V ▲ button to select the Auto Sleep menu.</li> <li>2) Press the ► button and then use V ▲ button to select On or Off.</li> </ul>
Power On Delay	When connecting multiple monitors and turning the power on, the monitors are turned on individually to prevent overload.

#### Note

• In the event of power interruption (disconnection or power failure), the clock must be reset.

- Once the on or off time is set, these functions operate daily at the preset time.
  - $\boldsymbol{\cdot}$  Off time function overrides On time function if they are set to the same time.
  - $\boldsymbol{\cdot}$  When On time is operated, input screen is turned on as it was turned off.

Γ	
	~

## Selecting the options

	Option		
	Language       ►         IsM Method       ►         IsM Method       ►         Power Indicator       Logo Light         DPM Select       Tile Mode         Istactory Reset       ►	To set	
Language	To choose the language in which t	he control names are o	displayed.
Key Lock	Use the $\bigvee \blacktriangle$ buttons to select <b>On</b> or used with the remote control. This		
	In order to lock the OSD screen ac In order to unlock it, do the followir • Push the <b>MENU</b> button on the re	ng :	
ISM Method	A frozen or still picture from a PC/Video game displayed on the screen for prolonged periods could result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for a long period of time.		
	Normal : Leave on normal if you don't foresee image burn in being a problem.		
	White wash : White wash fills the screen with solid white. This helps removes permanent images burned into the screen. A permanent image may be impossible to clear entirely with white wash.		
	Orbiter : May help prevent ghost im remain on the screen. To avoid a pe minutes.	•	, ,
	Inversion : This function inverts the automatically inverted every 30 minuted every 30 minu		n. The panel color is
	<b>Dot Wash :</b> This function moves the moved every 5 second.	black dots of the screen	n. The black dots is automatically
Power Indicator	Use this function to set the powe <b>On</b> or <b>Off</b> .	er indicator on the fror	nt side of the product to
Logo Light	Use this function to set the Logo <b>Off</b> .	Light on the front sid	e of the product to <b>On</b> or
DPM Select	A user can choose to turn the power saving mode on / off.		



### Selecting the options

#### To use this function

- Must be displayed with various other products.

Ontion

- Must be in a function that can be connected to RS-232C or RGB Out

#### Tile mode

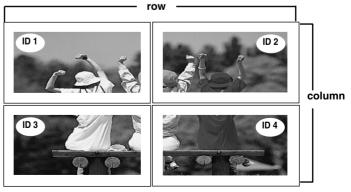
Option		
Language Key Lock ISM Method Power Indicator Logo Light DPM Select Tile Mode ► Factory Reset	Tile Mode H-Size V-Size H-Position V-Position Reset Tile ID Natural	Off 0 0 <> <> 1 Off
▲▼∢▶ ⊙ MENU		

It is used to enlarge the screen and also used with several products to view screen.

- Tile Mode T
  - It is a set the ID of the current product to set location.
    - \* Only after pressing the SET button the adjustments made to the settings will be saved.
    - Tile mode : row x column ( r = 1, 2, 3, 4,5 c = 1, 2, 3, 4,5)
    - 5 x 5 available.
    - Configuration of an integration screen is also available as well as configuration of One by one Display.



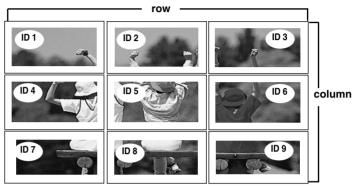
- Tile mode (product 1 ~ 4) : r(2) x c(2)



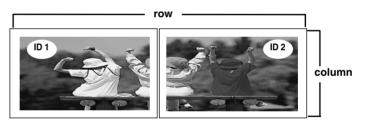


### Selecting the options

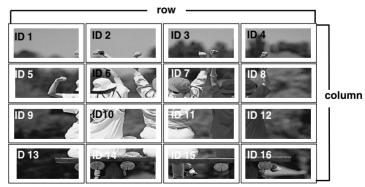
#### - Tile mode (product 1 ~ 9) : r(3) x c(3)



- Tile mode (product 1 ~ 2) : r(2) x c(1)



- Tile mode (product 1 ~16) : r(4) x c(4)





### Selecting the options

#### Tile mode

Option		
Language Key Lock ISM Method Power Indicator Logo Light DPM Select Tile Mode Factory Reset	Tile Mode H-Size V-Size H-Position V-Position Reset Tile ID Natural	Off 0 0 <> <> 1 Off
<b>▲▼∢ ▶</b> ⊙ MENU		

- H-Size Adjust the horizontal size of the screen taking into account the size of the bezel.
- V-Size Adjust the vertical size of the screen taking into account the size of the bezel.
- H-Position Moving the screen position horizontally.
- V-Position Moving the screen position vertically.
- Reset Function to initialize and release Tile. All Tile setting are released when selecting Tile recall and the screen returns to Full screen.
- Tile ID Select the location of the Tile by setting an ID.
- Natural The image is omitted by the distance between the screens to be naturally shown.

Factory Reset Select this option to return to the default factory settings.





Set ID You can assign a unique Set ID NO (name assignment) to each product when several products are connected for display. Specify the number (1~99) using the ▼ ▲ button and exit. Use the assigned Set ID to individually control each product using the Product Control Program.

Serial No. This menu shows the serial number of the product.

SW Version This menu shows the software version.

# Troubleshooting

No imag	e is displayed
Is the product power cord connected?	• See if the power cord is properly connected to the outlet.
Is the power indicator light on?	<ul><li>See if the power switch is turned on.</li><li>May need service.</li></ul>
Power is on, power indicator is blue but the screen appears extremely dark.	<ul><li>Adjust brightness and contrast again.</li><li>Backlight may need repair.</li></ul>
the power indicator amber?	<ul> <li>If the product is in power saving mode, move the mouse or press any key.</li> <li>Turn both devices off and then back on.</li> </ul>
Does the 'Out of range' message appear?	<ul> <li>The signal from the PC (video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual.</li> <li>* Maximum resolution         RGB : 1600 x 1200 @ 60Hz         HDMI/DVI : 1920 x 1080 @ 60Hz     </li> </ul>
Does the 'Check signal cable' message appear?	<ul> <li>The signal cable between PC and product is not connected. Check the signal cable.</li> <li>Press the 'INPUT' menu in the remote Control to check the input signal.</li> </ul>

## 'Unknown Product' message appears when the product is connected.

- Did you install the driver?
- Install the product driver, which is provided with the product, or download it from the web site. (http://www.lge.com)
- See if the plug&play function is supported by referring to the video card user manual.

## 'Key Lock On' message appears.

- The 'Key Lock On' message appears when pressing the Menu button.
- The control locking function prevents unintentional OSD setting change due to careless usage. To unlock the controls, simultaneously press the Menu button and ▶ button for several seconds. (You cannot set this function using the remote control buttons. You can set this function in the product only.)

Note

\* Vertical frequency: To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.

\* Horizontal frequency: The horizontal interval is the time to display one vertical line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

# Troubleshooting

The screen imag	ge looks abnormal.
Is the screen position wrong?	<ul> <li>D-Sub analog signal – Press the "AUTO" button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu.</li> <li>See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel – Display – Setting menu.</li> </ul>
Do thin lines appear on the background screen?	• D-Sub analog signal – Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
<ul> <li>Horizontal noise appears or the characters look blurred.</li> </ul>	• D-Sub analog signal – Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
The screen is displayed abnormally.	• The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

## After-image appears on the product.

- After-image appears when the product is turned off.
- If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screen-saver function.

# Troubleshooting

The audio function does not work.		
No sound?	<ul> <li>See if the audio cable is connected properly.</li> <li>Adjust the volume.</li> <li>See if the sound is set properly.</li> </ul>	
<ul><li>Sound is too dull.</li><li>Sound is too low.</li></ul>	<ul><li>Select the appropriate equalize sound.</li><li>Adjust the volume.</li></ul>	

Screen color is abnormal.	
<ul> <li>Screen has poor color resolution (16 colors).</li> </ul>	• Set the number of colors to more than 24 bits (true color) Select Control Panel – Display – Settings – Color Table menu in Windows.
<ul> <li>Screen color is unstable or mono- colored.</li> </ul>	• Check the connection status of the signal cable. Or, re-insert the PC video card.
Do black spots appear on the screen?	• Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. It is not a malfunction of the LCD.

### The product specifications can change without prior notice for product improvement.

### M3202C

LCD Panel	32 inches Visible diagonal (80.0 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel 0.5025 mm X 0.5025 mm (Pixel Pitch)			
Power	Rated Voltage Power Consumption	$\begin{array}{llllllllllllllllllllllllllllllllllll$		
Dimensions &Weight		$\begin{bmatrix} 2 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		
	[2] 80.29 cm (31.61 inche [3] 80.29 cm (31.61 inche	h es) x 54.00 cm (21.26 inches) x 19.25 cm (7.58 inches) es) x 49.30 cm (19.41 inches) x 9.98 cm (3.93 inches) es) x 54.00 cm (21.26 inches) x 19.25 cm (7.58 inches) es) x 49.30 cm (19.41 inches) x 9.98 cm (3.93 inches) [2] 14.38 kg (31.70 lbs) [4] 15.16 kg (33.42 lbs)		

### NOTE

Information in this document is subject to change without notice.

### The product specifications can change without prior notice for product improvement.

### M3702C

LCD Panel	37 inches Visible diagonal (94.0 cm)TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel 0.6000 mm X 0.6000 mm (Pixel Pitch)			
Power	Rated Voltage Power Consumption		/~ 50/60Hz 1.8A : 180W :≤ 1W (RGB) / 4W(H :≤ 1W	DMI/DVI)
Dimensions &Weight			[2]	*D <sup>4</sup>
			[4]	
	[ <b>2</b> ] 92.81 cm (36.54 inche [ <b>3</b> ] 92.81 cm (36.54 inche	es) x 62.10 cm ( es) x 57.12 cm ( es) x 62.10 cm (	24.45 inches) x 22.76 cm ( 22.49 inches) x 11.25 cm ( 24.45 inches) x 22.76 cm ( 22.49 inches) x 11.25 cm (	(4.43 inches) (8.96 inches)
	<b>Net</b> [1] 23.98 kg (52.87 lbs) [ <b>3]</b> 24.76 kg (54.59 lbs)		<b>[2]</b> 20.76 kg (45.77 lbs) <b>[4]</b> 21.54 kg (47.49 lbs)	

### NOTE

Information in this document is subject to change without notice.

### The product specifications can change without prior notice for product improvement.

Video Signal	Max. Resolution	RGB : 1600 X 1200 @60Hz			
5		HDMI/DVI : 1920 X 1080 @60Hz – It may not be supported			
		depending on the OS or video card type			
	Recommended Resolution	RGB : WSXGA 1360 X 768 @60Hz			
		HDMI/DVI : WSXGA 1360 X 768 @60Hz - It may not be			
		supported depending on the OS or video card type.			
	Horizontal Frequency	RGB : 30 - 83 kHz			
		HDMI/DVI : 1920 X 1080 @60Hz – It may not be supported depending on the OS or video card type. RGB : WSXGA 1360 X 768 @60Hz HDMI/DVI : WSXGA 1360 X 768 @60Hz – It may not be supported depending on the OS or video card type. RGB : 30 - 83 kHz HDMI/DVI : 30 - 83 kHz RGB : 56 - 75 Hz HDMI/DVI : 56 - 60 Hz			
	Vertical Frequency	RGB : 56 - 75 Hz			
		HDMI/DVI : 56 - 60 Hz			
	Synchronization Type	Separate/Composite/Digital			
Input Connector		15-pin D-Sub type, HDMI (digital), S-Video,			
Environmental	Operational Condition	Temperature: 0°C ~ 40°C , Humidity: 10% ~ 80%			
Conditions	Storage Condition				

### \* Applicable only for models that support the speakers

Audio RMS Audio Output	10W+10W(R+L)
Input Sensitivity	0.7Vrms
Speaker Impedance	8Ω

### NOTE

Information in this document is subject to change without notice.

### PC Mode – Preset Mode

F	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1 2 *3 4 *5 6 7 *8 9	640 x 350 720 x 400 640 x 480 640 x 480 800 x 600 800 x 600 832 x 624 1024 x 768 1024 x 768	31.469 31.469 37.5 37.879 46.875 49.725 48.363 60.123	70.8 70.8 59.94 75 60.317 75 74.55 60 75.029	*11 *12 *13 *14 15 16 *17	1280 x 768 1360 x 768 1366 x 768 1280 x 1024 1280 x 1024 1600 x 1200 1920 x 1080	47.7 47.72 47.7 63.981 79.98 75.00 67.5	60 59.799 60 60.02 75.02 60 60
*10	1280 x 720	44.772	59.855				

### DTV Mode

	Component	HDMI/DVI(DTV)
480i	0	x
576i	0	x
480p	0	о
576p	0	о
720p	0	o
1080i	0	о
1080p	Х	0

### **Power Indicator**

Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	-

### NOTE

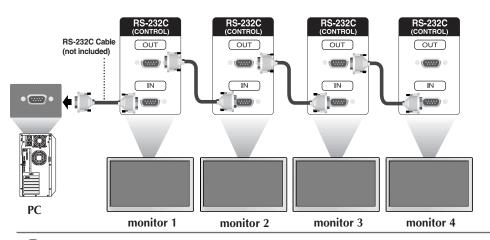
 DTV/PC selection on HDMI/DVI inputs is available for PC resolutions : 640 X 480/60Hz, 1280 X 720/60Hz and DTV resolutions : 480p, 720p. 1~16 : RGB mode \* : HDMI/DVI mode

### Use this method to connect several products to a single PC. You can control several products at a time by connecting them to a single PC.

### Connecting the cable

Connect the RS-232C cable as shown in the picture.

\* The RS-232C protocol is used for communication between the PC and product. You can turn the product on/off, select an input source or adjust the OSD menu from your PC.



### RS-232C Configurations

7-Wire Co	7-Wire Configurations (Standard RS-232C cable)		3-Wi	re Configuration	s (Not Stand	ard)	
RXD	PC	Monitor	ТХД	RXD	PC	Monitor	TXD
TXD GND DTR DSR RTS CTS	2 • 3 • 5 • 4 • • 6 • • 7 • • 8 • • • • • • • • • • • • • •	2 5 6 4 8 7	RXD GND DSR DTR CTS RTS	TXD GND DTR DSR RTS CTS	2 3 5 4 6 7 8	2 5 6 4 7 8	RXD GND DTR DSR RTS CTS
	D-Sub 9 (Female)	D-Sub 9 (Female)			D-Sub 9 (Female)	D-Sub 9 (Female)	

### Communication Parameter

- ▶ Baud Rate : 9600buadRate (UART)
- Data Length : 8bits
- Parity Bit : None
- Stop Bit : 1bit
- Flow Control : None
- Communication Code : ASCII code
- Use a crossed (reverse) cable

## **Controlling the Multiple Product**

### Command Reference List

	COMMAND1	COMMAND2	DATA1	DATA2	DATA3
01. Power	k	а	00H - 01H		
02. Input Select	k	b	02H - 09H		
03. Aspect Ratio	k	с	01H - 09H		
04. Screen Mute	k	d	00H - 01H		
05. Volume Mute	k	е	00H - 01H		
06. Volume Control	k	f	00H - 64H		
07. Contrast	k	g	00H - 64H		
08. Brightness	k	ĥ	00H - 64H		
09. Color	k	i	00H - 64H		
10. Tint	k	i	00H - 64H		
11. Sharpness	k	k	00H - 64H		
12. OSD Select	k	I	00H - 01H		
13. Remote Lock/key Lock	k	m	00H - 01H		
14. Balance	k	t	00H - 64H		
15. Color Temperature	k	u	00H - 03H		
16. Abnomal state	k	Z	FFH		
17. ISM mode	j	р	00H - 10H		
18. Auto configuration	j	u	01H		
19. Key	m	С	Key Code		
20. Tile Mode	d	d	00H - 55H		
21. Tile H Size	d	g	00H - 64H		
22. Tile V Size	d d	h i	00H - 64H 00H - 19H		
23. Tile ID Set 24. Natural Mode (In Tilemode)	d	1	00H - 19H 00H - 01H		
25. Elapsed time return	d	J	FFH		
26. Temperature value	d	n	FFH		
27. Lamp fault check	d	p	FFH		
28. Auto Volume	d	u U	00H - 01H		
29. Speaker	d	v	00H - 01H		
30. Time	f	a	00H - 06H	00H - 17H	00 - 3BH
31. On Timer (On/Off Timer) On, Off	f	b	00H, FFH	00H - FFH	00 0011
32. Off Timer (On/Off Timer) On, Off	f	č	00H, FFH	00H - FFH	
33. On Timer (On/Off Timer) Time	f	d	00H - 07H	00H - 17H	00 - 3BH
34. Off Timer (On/Off Timer) Time	f	e	00H - 07H	00H - 17H	00 - 3BH
35. Sleep Time	f	f	00H - 08H		
36. Auto Sleep	f	g	00H - 01H		
37. Power On Delay	f	h	00H - 64H		
38. Language	f	İ	00H - 09H		
39. DPM Select	f	j	00H - 01H		
40. Reset	f	k	00H - 02H		
41. S/W Version	f	z b	FFH 20H - A0H		
42. Input Select	х	D	2011 - AUN		

### Transmission / Receiving Protocol

Transmission

[Command1][Command2][ ][Set ID][ ][Data][Cr]

- \* [Command 1]: First command. (k)
- \* [Command 2]: Second command.(a ~ u)
- \* [Set ID]: Set up the Set ID number of product.
  - range : 1~99. by setting '0', server can control all products.
  - \* In case of operating with more than 2 sets using set ID as '0' at the same time, it should not be checked the ack message.

Because all sets will send the ack message, so it's impossible the check the whole ack messages.

- \* [DATA]: To transmit command data. Transmit 'FF' data to read status of command.
- \* [Cr]: Carriage Return
  - ASCII code '0x0D'
- \* [ ]: ASCII code Space (0x20)'

### OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

\* The Product transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][ ][Set ID][ ][NG][Data][x]

\* If there is error, it returns NG

RS-232C

### **Controlling the Multiple Product**



Transmission / Receiving Protocol

#### 01. Power(Command : a)

To control Power On/Off of the Set.

<u>Transmission</u>

[k][a][ ][Set ID][ ][Data][Cr]

Data 0 : Power Off 1 : Power On

Acknowledgement

[a][ ][Set ID][ ][OK][Data][x]

► To show the status of Power On/Off.

<u>Transmission</u>

[k][a][ ][Set ID][ ][FF][Cr]

Acknowledgement

[a][ ][Set ID][ ][OK][Data][x]

Data 0 : Power Off 1 : Power On

### 02. Input Select (Command : b) (Main Picture Input)

► To select input source for the Set. You can also select an input source using the INPUT button on the remote control.

Transmission

- Data 2: AV
  - 4 : Component 1
  - 5 : Component 2
  - 7 : RGB (PC)
  - 8 : HDMI (DTV)
  - 9 : HDMI (PC)

Acknowledgement

[b][ ][Set ID][ ][OK][Data][x]

Data 2: AV

- 4 : Component 1
- 5 : Component 2
- 7 : RGB (PC)
- 8 : HDMI (DTV)
- 9 : HDMI (PC)

Transmission / Receiving Protocol

### 03. Aspect Ratio(Command : c) (Main picture format)

► To adjust the screen format. You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the Screen menu.

Transmission

[k][c][ ][Set ID][ ][Data][Cr]

Data 1 : Normal Screen (4:3)

- 2 : Wide Screen (16 :9)
- 4 : Zoom1
- 5 : Zoom2
- 6 : Original
- 7 :14:9
- 9 : Just Scan(HD DTV), 1:1 (RGB PC, HDMI/DVI PC)

Acknowledgement

[c][ ][Set ID][ ][OK][Data][x]

#### 04. Screen Mute(Command : d)

To select screen mute on/off.

**Transmission** 

[k][d][ ][Set ID][ ][Data][Cr]

Data 0 : Screen mute off (Picture on) 1 : Screen mute on (Picture off)

Acknowledgement

[d][ ][Set ID][ ][OK][Data][x]



#### 05. Volume Mute(Command : e)

► To control On/Off of the Volume Mute.

#### Transmission

[k][e][ ][Set ID][ ][Data][Cr]

Data 0 : Volume Mute On (Volume Off) 1 : Volume Mute Off (Volume On)

Acknowledgement

[e][ ][Set ID][ ][OK][Data][x]

Data 0 : Volume Mute On (Volume Off) 1 : Volume Mute Off (Volume On)

**06. Volume Control(Command : f)** ► To adjust Volume .

**Transmission** 

[k][f][ ][Set ID][ ][Data][Cr]

Data Min : 00H ~ Max : 64H (Hexadecimal code)

Acknowledgement

[f][ ][Set ID][ ][OK][Data][x]

Data Min : 00H ~ Max : 64H

• Refer to 'Real data mapping' page A7.

### RS-232C

### **Controlling the Multiple Product**

Transmission / Receiving Protocol

#### 07. Contrast(Command : g)

► To adjust screen contrast.

You can also adjust the contrast in the Picture menu.

#### Transmission

[k][g][ ][Set ID][ ][Data][Cr]

Data Min : 00H ~ Max : 64H

• Refer to 'Real data mapping' as shown below.

Acknowledgement

[g][ ][Set ID][ ][OK][Data][x]

- \* Real data mapping
- 0 : Step 0
- . A : Step 10
- . Olep .
- F : Step 15
- 10 : Step 16

64 : Step 100

#### 08. Brightness(Command : h)

► To adjust screen brightness.

You can also adjust the brightness in the Picture menu.

Transmission

[k][h][ ][Set ID][ ][Data][Cr]

Data Min : 00H ~ Max : 64H

• Refer to 'Real data mapping' as shown below.

```
Acknowledgement
```

[h][ ][Set ID][ ][OK][Data][x]

- \* Real data mapping
- 0 : Step
- A : Step 10
- :
- F : Step 15
- 10 : Step 16
- 64 : Step 100



### 09. Color(Command : i) (Video only)

► To adjust the screen color. You can also adjust the color in the Picture menu.

#### **Transmission**

[k][i][ ][Set ID][ ][Data][Cr]

Data Min : 00H ~ Max : 64H (Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[i][ ][Set ID][ ][OK][Data][x]

Data Min: 00H ~ Max: 64H

#### 10. Tint(Command : j) (Video only)

To adjust the screen tint. You can also adjust the tint in the Picture menu.

**Transmission** 

[k][j][ ][Set ID][ ][Data][Cr]

Data Red: 00H ~ Green: 64H (Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[j][ ][Set ID][ ][OK][Data][x]

Data Red: 00H ~ Green: 64H

\* Tint Real data mapping

0 : Step -50

64 : Step 50

Transmission / Receiving Protocol

### 11. Sharpness(Command : k) (Video only)

To adjust the screen Sharpness. You can also adjust the sharpness in the Picture menu.

Transmission

[k][k][ ][Set ID][ ][Data][Cr]

Data Min : 00H ~ Max : 64H (Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[k][ ][Set ID][ ][OK][Data][x]

Data Min : 00H ~ Max : 64H

### 12. OSD Select(Command : I)

► To control OSD on/off to the set.

Transmission

[k][I][ ][Set ID][ ][Data][Cr]

Data 0 : OSD Off 1 : OSD On

Acknowledgement

[I][ ][Set ID][ ][OK][Data][x] Data 0 : OSD Off 1 : OSD On

### 13. Remote Lock /Key Lock (Command : m)

To control Remote Lock on/off to the set. This function, when controlling RS-232C, locks the remote control and the local keys.

<u>Transmission</u>

[k][m][ ][Set ID][ ][Data][Cr]

Data 0 : Off 1 : On

Acknowledgement

[m][ ][Set ID][ ][OK][Data][x]

Data 0 : Off 1 : On

### RS-232C

## **Controlling the Multiple Product**



#### 14 Balance(Command : t)

► To adjust the sound balance. <u>*Transmission*</u>

[k][t][ ][Set ID][ ][Data][Cr]

Data Min : 00H ~ Max : 64H (Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[t][ ][Set ID][ ][OK][Data][x]

Data Min : 00H ~ Max : 64H \* Balance : L50 ~ R50

#### 15. Color Temperature (Command : u)

► To adjust the screen color temperature. <u>*Transmission*</u>

[k][u][ ][Set ID][ ][Data][Cr]

Data 0 : Medium

- 1 : Cool
- 2 : Warm
- 3 : User

Acknowledgement

[u][ ][Set ID][ ][OK][Data][x]

Data 0 : Medium

- 1 : Cool
- 2 : Warm
- 3 : User

### Transmission / Receiving Protocol

### 16. Abnomal state (Command : z)

Abnormal State : Used to Read the power off status when Stand-by mode. <u>*Transmission*</u>

#### [k][z][ ][Set ID][ ][Data][Cr]

Data FF : Read

- 0 : Normal (Power on and signal exist)
- 1: No signal (Power on)
- 2 : Turn the monitor off by remote control
- 3 : Turn the monitor off by sleep time function
- 4 : Turn the monitor off by RS-232C function
- 8 : Turn the monitor off by off time function
- 9 : Turn the monitor off by auto off function

Acknowledgement

[z][ ][Set ID][ ][OK][Data][x]

#### 17. ISM mode(Command: j p)

Used to select the afterimage preventing function.

Transmission

[j][p][ ][Set ID][ ][Data][Cr]

Data 1H : Inversion

- 2H : Orbiter
- 4H : White Wash
- 8H : Normal
- 10H : Dot Wash

Acknowledgement

[p][ ][Set ID][ ][OK][Data][x]



#### 18. Auto Configure(Command: j u)

To adjust picture position and minimize image shaking automatically. it works only in RGB(PC) mode.

#### Transmission

[j][u][ ][Set ID][ ][Data][Cr]

Data 1 : To set

Acknowledgement

[u][ ][Set ID][ ][OK][Data][x]

#### 19. Key(Command : m c)

► To send IR remote key code.

Transmission

[m][c][ ][Set ID][ ][Data][Cr]

Data Key code : Refer to page A18.

Acknowledgement

[c][ ][Set ID][ ][OK][Data][x]

### Transmission / Receiving Protocol

### 20. Tile Mode(Command : d d)

Change a Tile Mode.

<u>Transmission</u>

[d][d][][Set ID][][Data][x]

Data	Description
00	Tile mode is off.
12	1 x 2 mode(column x row)
13	1 x 3 mode
14	1 x 4 mode
55	5 x 5 mode

\* The data can not be set to 0X or X0 except 00.

Acknowledgement

[d][][00][][OK/NG][Data][x]



### 21. Tile H Size(Command : d g)

► To set the Horizontal size.

Transmission

[d][g][][Set ID][][Data][x]

Data Min : 00H ~ Max : 64H

Acknowledgement

[g][][Set ID][][OK/NG][Data][x]

### 22. Tile V Size(Command : d h)

▶ To set the Vertical size.

<u>Transmission</u>

[d][h][][Set ID][][Data][x]

Data Min : 00H ~ Max : 64H

Acknowledgement

[h][][Set ID][][OK/NG][Data][x]

### RS-232C

## **Controlling the Multiple Product**

Transmission / Receiving Protocol

#### 23. Tile ID Set(Command : d i)

► To assign the Tile ID for Tiling function .

<u>Transmission</u>

[d][i][][Set ID][][Data][x]

Data Min : 00H ~ Max : 19H (Hexadecimal code)

Acknowledgement

[i][][Set ID][][OK/NG][Data][x]

#### 24 Natural Mode (In Tilemode) (Command : d j)

▶ The image is omitted by the distance between the screens to be naturally shown.

Transmission

[d][j][][Set ID][][Data][x]

Data 0 : Natural Off

- 1 : Natural On
- ff : Read Status

Acknowledgement

[j][][Set ID][][OK/NG][Data][x]

#### 25. Elapsed time return(Command : d I)

► To read the elapsed time.

Transmission

[d][l][][Set ID][][Data][x]

\* The data is always FF(in Hex).

Acknowledgement

[I][][Set ID][][OK/NG][Data][x]

\* The data means used hours. (Hexadecimal code)



#### 26. Temperature value (Command : d n)

► To read the inside temperature value.

Transmission

[d][n][][Set ID][][Data][x]

\* The data is always FF(in Hex).

Acknowledgement

[n][][Set ID][][OK/NG][Data][x]

\* The data is 1 byte long in Hexadecimal.

#### 27. Lamp fault Check(Command : d p)

To check lamp fault.

<u>Transmission</u>

[d][p][][Set ID][][Data][x]

\* The data is always FF(in Hex).

Acknowledgement

[p][][Set ID][][OK/NG][Data][x]

Data 0 : Lamp Fault

1: Lamp OK



Transmission / Receiving Protocol

### 28. Auto volume (Command : d u)

Automatically adjust the volume level.

Transmission

[d][u][][Set ID][][Data][x]

Data 0 : Off 1 : On

Acknowledgement

[u][][Set ID][][OK/NG][Data][x]

### 29. Speaker (Command : d v)

Turn the speaker on or off.

Transmission

[d][v][][Set ID][][Data][x]

Data 0 : Off 1 : On

Acknowledgement

[v][][Set ID][][OK/NG][Data][x]



#### 30. Time (Command : f a)

Set the current time.

Transmission

[f][a][][Set ID][][Data1][][Data2][][Data3][Cr]

[Data1]

- 0 : Monday
- 1: Tuesday
- 2 : Wednesday
- 3 : Thursday
- 4 : Friday
- 5 : Saturday
- 6 : Sunday

[Data2] 0H~17H (Hours)

[Data3] 00H~3BH (Minutes)

Acknowledgement

[a][][Set ID][][OK/NG][Data1][Data2][Data3][x]

\*When reading data, FFH is inputted for [Data1], [Data2] and [Data3]. In other cases, all are treated as NG.

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### Transmission / Receiving Protocol

31. On Timer (On/Off Timer) On, Off (Command : F b)

Set days for On Timer.

Transmission

[f][b][][Set ID][][Data1][][Data2][Cr]

[Data1] 0 (Write), FFH(Read)

[Data2]

00H~FFH

bit0 : Monday On Timer On(1), Off(0)

- bit1 : Tuesday On Timer On(1), Off(0)
- bit2 : Wednesday On Timer On(1), Off(0)
- bit3 : Thursday On Timer On(1), Off(0)
- bit4 : Friday On Timer On(1), Off(0)

bit5 : Saturday On Timer On(1), Off(0)

bit6 :Sunday On Timer On(1), Off(0)

bit7 : Everyday On Timer On(1), Off(0)

<u>Acknowledgement</u>

[b][][Set ID][][OK/NG][Data1][Data2][x]

### 32. Off Timer (On/Off Timer) On, Off (Command : f c)

Set days for Off Timer.

Transmission

[f][c][][Set ID][][Data1][][Data2][Cr]

[Data1] 0 (Write), FFH(Read)

[Data2]

- 00H~FFH
- bit0 : Monday Off Timer On(1), Off(0)
- bit1 : Tuesday Off Timer On(1), Off(0)
- bit2 : Wednesday Off Timer On(1), Off(0)
- bit3 : Thursday Off Timer On(1), Off(0)
- bit4 : Friday Off Timer On(1), Off(0)

bit5 : Saturday Off Timer On(1), Off(0)

- bit6 :Sunday Off Timer On(1), Off(0)
- bit7 : Everyday Off Timer On(1), Off(0)

<u>Acknowledgement</u>

[c][][Set ID][][OK/NG][Data1][Data2][x]

Transmission / Receiving Protocol

### 33. On Timer (On/Off Timer) Time (Command : f d)

Set On Timer.

Transmission

[f][d][][Set ID][][Data1][][Data2][Data3][Cr]

[Data1]

- 0 : Monday
- 1: Tuesday
- 2 : Wednesday
- 3 : Thursday
- 4 : Friday
- 5 : Saturday
- 6 : Sunday
- 7 : Everyday

[Data2] 00H~17H (Hours)

[Data3] 00H~3BH (Minutes)

Acknowledgement

[d][][Set ID][][OK/NG][Data1][Data2][Data3][x]

\*When reading data, FFH is inputted for [Data2], [Data3]. In other cases, all are treated as NG.

Transmission / Receiving Protocol

### 34. Off Timer (On/Off Timer) Time (Command : f e)

Set Off Timer.

Transmission

[f][e][][Set ID][][Data1][][Data2][][Data3][Cr]

[Data1]

- 0 : Monday
- 1: Tuesday
- 2 : Wednesday
- 3 : Thursday
- 4 : Friday
- 5 : Saturday
- 6 : Sunday
- 7 : Everyday

[Data2] 00H~17H (Hours)

[Data3] 00H~3BH (Minutes)

Acknowledgement

[e][][Set ID][][OK/NG][Data1][Data2][Data3][x]

\*When reading data, FFH is inputted for [Data2], [Data3]. In other cases, all are treated as NG.

Transmission / Receiving Protocol

### 35. Sleep Time (Command : f f)

Set Sleep Time.

<u>Transmission</u>

[f][f][][Set ID][][Data][Cr]

Data 0 : Off

1:10

2:20

3:30 4:60

5:90

6:120

7:180

8 : 240 (Orderly)

Acknowledgement

[f][][Set ID][][OK/NG][Data][x]

### 36. Auto Sleep (Command : f g)

Set Auto Sleep.

<u>Transmission</u>

[f][g][][Set ID][][Data][Cr]

Data 0 : Off 1: On

Acknowledgement

[g][][Set ID][][OK/NG][Data][x]

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Transmission / Receiving Protocol

#### 37. Power On Delay (Command : f h)

Set the schedule delay when the power is turned on (Unit: second).

Transmission

[f][h][][Set ID][][Data][Cr]

Data : 00H ~ 64H (Data value)

Acknowledgement

[h][][Set ID][][OK/NG][Data][x]

#### **38. Language (Command : f i)** ▶ Set the OSD language.

<u>Transmission</u>

[f][i][][Set ID][][Data][Cr]

Data

- 0 : English
- 1 : France
- 2 : Deutch
- 3 : Spanish
- 4 : Italian
- 5 : Portugues
- 6 : Chinese
- 7 : Japanese
- 8 : Korean
- 9 : Russian

<u>Acknowledgement</u>

[i][][Set ID][][OK/NG][Data][x]

Transmission / Receiving Protocol

#### 39. DPM Select (Command : f j)

Set the DPM (Display Power Management) function.

Transmission

[f][j][][Set ID][][Data][Cr]

Data 0 : Off 1: On

Acknowledgement

[j][][Set ID][][OK/NG][Data][x]

#### 40. Reset (Command : f k)

Execute the Picture, Screen and Factory Reset functions.

**Transmission** 

[f][k][][Set ID][][Data][Cr]

Data

- 0 : Picture Reset
- 1 : Screen Reset
- 2 : Factory Reset

Acknowledgement

[k][][Set ID][][OK/NG][Data][x]



41. S/W Version (Command : f z)

Check the software version.

Transmission

[f][z][][Set ID][][Data][Cr]

Data FFH : Read

Acknowledgement

[z][][Set ID][][OK/NG][Data][x]

#### 42. Input Select (Command : x b)

► To select input source for the Set.

Transmission

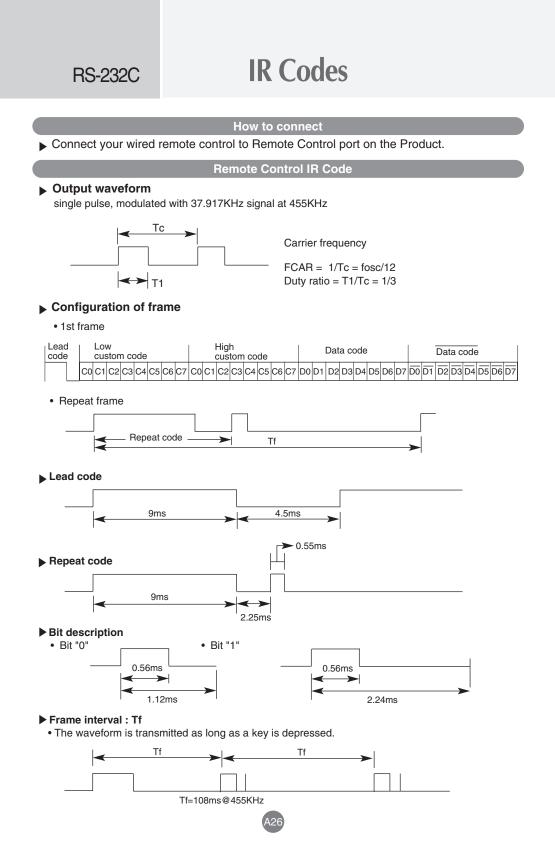
[x][b][ ][Set ID][ ][Data][Cr]

- Data 20H : AV
  - 40H : Component 1 41H : Component 2 60H : RGB (PC) 90H : HDMI/DVI (DTV) A0H : HDMI/DVI (PC)

Acknowledgement

[b][ ][Set ID][ ][OK][Data][x]

Data 20H : AV 40H : Component 1 41H : Component 2 60H : RGB (PC) 90H : HDMI/DVI (DTV) A0H : HDMI/DVI (PC)



### RS-232C

### **IR Codes**

Code(Hexa)	Function	Note
00		R/C Button
01	▼	R/C Button
02	VOL(▶)	R/C Button
03	VOL(◀)	R/C Button
08	POWER ON/OFF	R/C Button (Power On/Off)
C4	POWER ON	Discrete IR Code(Only Power On)
C5	POWER OFF	Discrete IR Code(Only Power On)
09	MUTE	R/C Button
98	AV	R/C Button
0B	INPUT	R/C Button
0E	SLEEP	R/C Button
43	MENU	R/C Button
5B	EXIT	R/C Button
6E	PSM	R/C Button
44	SET	R/C Button
10	Number Key 0	R/C Button
11	Number Key 1	R/C Button
12	Number Key 2	R/C Button
13	Number Key 3	R/C Button
14	Number Key 4	R/C Button
15	Number Key 5	R/C Button
16	Number Key 6	R/C Button
17	Number Key 7	R/C Button
18	Number Key 8	R/C Button
19	Number Key 9	R/C Button
5A	AV	Discrete IR Code(Input AV Selection)
BF	COMPONENT1	Discrete IR Code(Input COMPONENT1 Selection)
D4	COMPONENT2	Discrete IR Code(Input COMPONENT2 Selection)
D5	RGB PC	Discrete IR Code(Input RGB PC Selection)
C6	HDMI/DVI	Discrete IR Code(Input HDMI/DVI Selection)
79	ARC	R/C Button
76	ARC (4:3)	Discrete IR Code(Only 4:3 mode)
77	ARC (16:9)	Discrete IR Code(Only 16:9 mode)
AF	ARC (ZOOM)	Discrete IR Code(Only ZOOM1, ZOOM2 mode)
99	AUTO CONFIC	Discrete IR Code

# CHILD SAFETY: It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



### THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

### THIS MANUFACTURER CARES!

• The consumer electronics industry is committed to making home entertainment enjoyable and safe.

### **TUNE INTO SAFETY**

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

### **WALL MOUNTING:** IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.



