### **User's Guide**

# M2900S M3800S

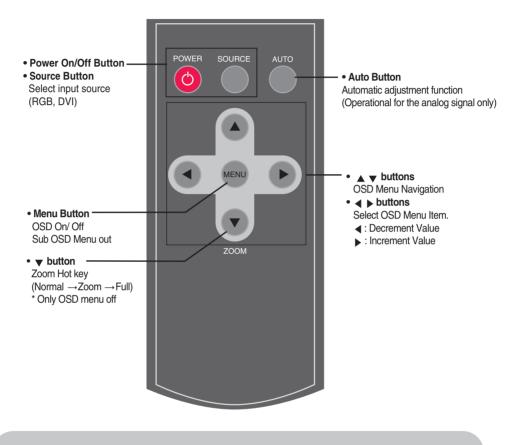
Make sure to read the **Safety Precautions** before using the product. Keep the User's Guide(CD) in an accessible place for future reference. **S**ee the label attached on the product and give the information to your dealer when you ask for service.

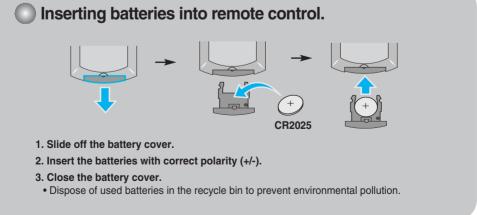


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# **Using the Remote Control**

### Name of the Remote Control Buttons



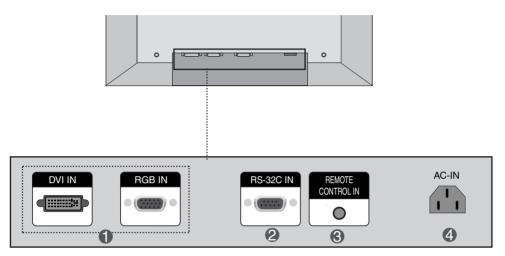


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# Name and Function of the Parts

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

### Rear View



**1** DVI, RGB Ports

#### RS-232C Serial Port

- Wired Remote Control Port
- Power Connector : Connect the power cord

# **Connecting to External Devices**

## 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.

(A) When connecting with the D-Sub signal input cable. (RGB)



Rear side of the product.

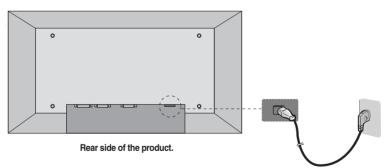
(B) When connecting with the DVI signal input cable.



Rear side of the product.



**2** Connect the power cord.



# **Connecting to External Devices**



(1) Turn on power by pressing the power button on the product.



Power button

2)Turn on the PC.

To change input source

Press the SOURCE button on the remote control to select the input signal. Or, press the SOURCE button on the bottom of the product.



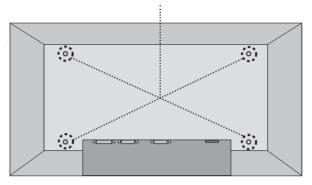
· How to connect to two computers. Connect the signal cables (DVI and D-Sub) to each computer. Press the SOURCE button on the remote control to select the computer to use.

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

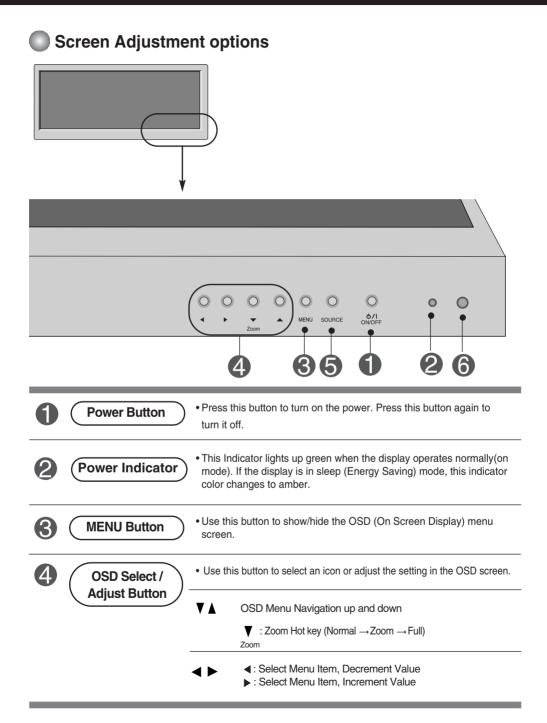
# **Connecting to External Devices**

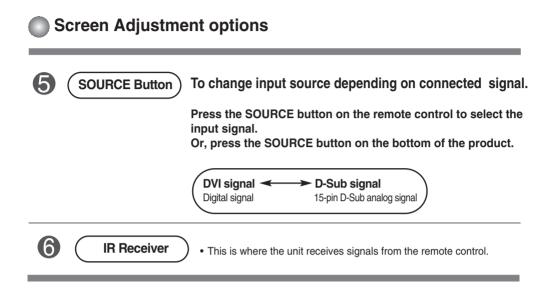
#### **VESA FDMI wall Mounting**

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.









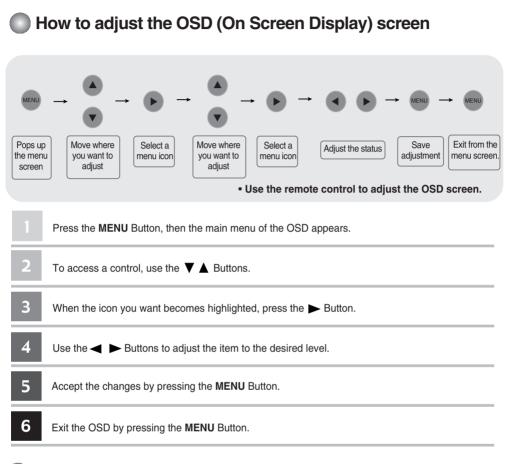


lcon	Function Description
PICTURE	Adjusts screen brightness, contrast and color that you prefer.
ZOOM	Adjusts the screen size.
TIMER	Adjusts the timer options.
OSD	Adjusts the OSD image.



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

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### How to adjust the screen automatically

Press the 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.

**Auto-Adjus** 

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### **Adjusting Screen Color**

PICTURE			
Contrast			
Brightness			
Color Temp.	•	Cool	
H– Position			
V-Position			
Clock			
Phase			
Auto Adjust			
🔶 Move 🛛 🔷 Sele	ect 💴	U Exit	

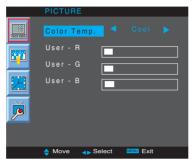
Contrast Brightness **Color Temp**  Adjust the difference between the light and dark levels in the picture. To adjust the brightness of the screen.



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



### **Adjusting Screen Color**



Red / Green / Blue Set your own color levels.

H-Position : Moving the screen position horizontally.

V-Position : Moving the screen position vertically.

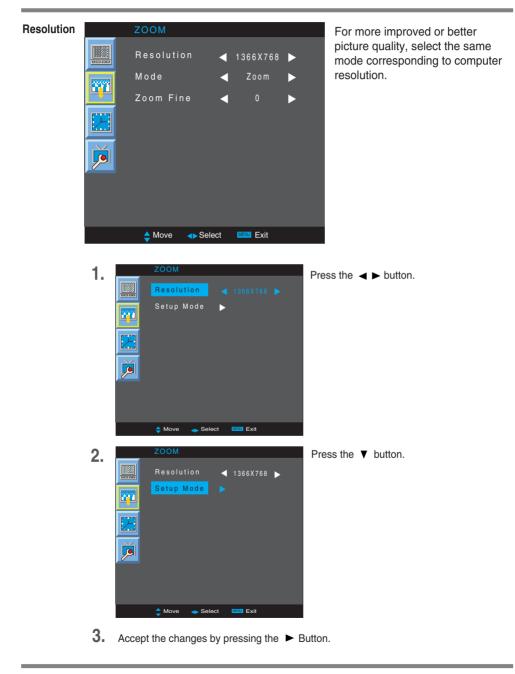
**Clock :** To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change. This function is available for analog signals only. **Phase :** To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen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

Auto Adjust (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.





### **Adjusting Screen size**







Mode

### Adjusting Screen size

To select the image size of the screen.

- Normal The aspect ratio is not adjusted from the original. It is set by the program being watched.
- Full When your AV receives the wide screen signal, it will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.
- Zoom When an image created based on M2900S model resolution (1366 X 480) and an image based on M3800S model resolution (1366 X 398) are used in different models, this function adjusts an image to fit to the screen size without cutting it or leaving any empty space on screen.

Zoom Fine To adjust the enlarged or reduced areas on the screen when the product is in Zoom mode.



Adjusting the timer function						
		TIMER				I
		Clock	◄	02:02	►	
		On Time	◀	06:30	►	
		Off Time	◄	22:00		
		Function	◄	OFF	►	
		Move  Select	MEN	Exit		
Clock	1) Pres 2) Pres 3) Pres 4) Pres	ss the ► button an ss the ► button an	n and d ther d ther d ther	then use i use ▼▲ i use ◀ ▶	▼ ▲ butto button to s button to	nally. In to select the <b>TIMER</b> menu. select the <b>Clock</b> menu. set the hour(00~23). set the minutes(00~59).
On/ Off Time	1) Pres 2) Pres 3) Pres 4) Pres	ss the <b>MENU</b> button ss the ► button an ss the ► button an	n and d ther d ther d ther	then use n use ▼▲ n use ◀ ►	▼ ▲ button to button to	by at the pre-set time. on to select the <b>TIMER</b> menu select <b>Off Time</b> or <b>On Time</b> . set the hour(00~23). set the minutes(00~59).
Function	On : A	t automatic On/C Automatically turr Disable the On/O	the			preset times.

a the timer function

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.
- Off time function overrides On time function if they are set to the same time.
- When On time is operated, input screen is turned on as it was turned off.





### Adjusting OSD image

#### OSD

OSD				
Set ID		•		►
H-Posit	ion			3
V-Posit	ion			10
On-Scre	en Time			10
Halfton	e			63
Factory	Reset	►		
🔶 Move	Select	MENU Exi	it	

- 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.
- H-Position Moving the OSD screen position horizontally.
- V-Position Moving the OSD screen position vertically.
- **On-Screen Time** To set the period of time that the OSD is displayed on the screen. (Available times : 3 to 24 second.)
- Halftone To adjust the transparency of the OSD menu screen.
- Factory Reset Select this option to return to the default factory settings.

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# Troubleshooting

No image 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 green 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 : 1280 x 1024 @60Hz DVI : 1280 x 1024 @60Hz</li> </ul>					
Does the 'no signal' message appear?	<ul> <li>The signal cable between PC and product is not connected. Check the signal cable.</li> <li>Press the 'SOURCE' 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?	<ul> <li>Install the product driver, which is provided with the product, or download it from the web site. (http://www.lge.com)</li> </ul>
	<ul> <li>See if the plug&amp;play function is supported by referring to the video card user manual.</li> </ul>



\* 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.

The units TL: \* 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.

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# 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.	<ul> <li>The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.</li> </ul>

### 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

Screen color is abnormal.					
<ul> <li>Screen has poor color resolution (16 colors).</li> </ul>	<ul> <li>Set the number of colors to more than 24 bits (true color)</li> <li>Select Control Panel – Display – Settings – Color Table menu in Windows.</li> </ul>				
<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.				

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

#### M2900S

LCD Panel	29.1 inches (73.95 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 73.95 cm 0.17025 mm X RGB X 0.51075 mm (Pixel Pitch)				
Power	Rated Voltage         AC 100-240V~ 50/60Hz 1.1A           Power Consumption         On Mode         : 65W Typ.           Sleep Mode         : ≤ 2W           Off Mode         : ≤ 1W				
Dimensions &Weight	$ \begin{array}{c c} \hline \\ \hline \\$				
	76.58 cm (30.15 inches) x 30.82 cm (12.13 inches) x 9.8 cm (3.86 inches)         Net         13 kg (28.66 lbs)				

#### NOTE

Information in this document is subject to change without notice.



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

#### M3800S

LCD Panel	38.1 inches (96.89 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 96.89 cm 0.227 mm X RGB X 0.681 mm (Pixel Pitch)			
Power	Rated Voltage         AC 100-240V~ 50/60Hz 1.3A           Power Consumption         On Mode         : 88W Typ.           Sleep Mode         : ≤ 2W           Off Mode         : ≤ 1W			
Dimensions &Weight	$ \begin{array}{c} \hline H \\ Width x Height x Depth \\ 98.88 cm (38.93 inches) x 32.92 cm (12.96 inches) x 9.2 cm (3.62 inches) \end{array} $ Net 16 kg (35.27 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 : 1366 X 768 @60Hz (1280 X 1024@60Hz) DVI : 1366 X 768 @60Hz (1280 X 1024@60Hz) – It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB : 1360 X 768 @60Hz DVI : 1360 X 768 @60Hz – It may not be supported depending on the OS or video card type.
	Horizontal Frequency	RGB : 28 - 70 kHz DVI : 28 - 70 kHz
	Vertical Frequency	57 - 63 Hz
	Synchronization Type	Separate/Digital
Input Connector		15-pin D-Sub type, DVI (digital), RS-232C
Environmental Conditions	Operational Condition Storage Condition	Temperature: $5^{\circ}C \sim 35^{\circ}C$ , Humidity: $10\% \sim 80\%$ Temperature: $-20^{\circ}C \sim 60^{\circ}C$ , Humidity: $5\% \sim 90\%$

NOTE

Information in this document is subject to change without notice.

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### PC Mode – Preset Mode

	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1 2 3 4 5 6 7 8	640 x 480 720 x 400 720 x 400 800 x 600 800 x 600 1024 x 768 1024 x 768 1360 x 768	31.469 31.468 31.5 37.354 37.879 47.816 48.363 47.72	59.94 70.08 70.156 59.861 60.317 59.92 60.004 59.799	9 10 11 12 13 14	1360 x 768 1360 x 768 1366 x 768 1366 x 768 1280 x 1024 1280 x 1024	47.72 47.712 47.713 49.02 63.668 63.981	59.799 60.015 59.65 60.0 59.895 60.02

\* 8~14 Select Resolution In OSD Zoom Menu

### Power Indicator

Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	Red

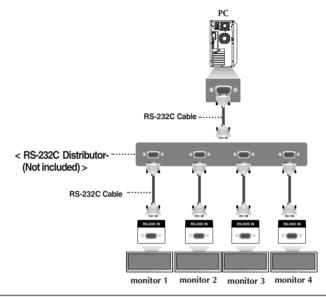


#### Use this method to connect several products to a single PC. You can control several products at a time by connecting them to a single PC.

#### 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	onfigurations (Sta	andard RS-23	2C cable)	3-Wi	re Configuratio	ons (Not Stand	ard)
RXD TXD GND DTR DSR RTS CTS	PC 2 3 5 4 6 7 8	Monitor 2 3 5 4 6 7 8	TXD RXD GND DSR DTR CTS RTS	RXD TXD GND DTR DSR RTS CTS	PC 2 3 5 4 6 7 8	Monitor 2 3 5 4 6 7 8	TXD RXD GND DSR DTR CTS RTS
	D-Sub 9 (Female)	D-Sub 9 (Male)			D-Sub 9 (Female)	D-Sub 9 (Male)	

### **Communication Parameter**

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



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**Command Reference List** 

	COMMAND1	COMMAND2	DATA(ASCII)
01. Power	j	k	000 - 001
02. Source	j j	I	000 - 001
03. Brightness	j j	m	000 - 100
04. Contrast	j j	n	000 - 100
05. Color Temperature	j	р	000 - 003
06. Resolution	j j	q	000 - 002
07. Zoom	ļį	r	000 - 002
08. Auto Adjust	J	S	000

### Transmission / Receiving Protocol

Transmission

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

\* [Command 1]: First command. (j)

- \* [Command 2]: Second command.
- \* [Set ID]: Set up the Set ID number of product.

range : 00~99. by setting '0', server can control all products.

 $^{\ast}$  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.
- \* [Cr]: Carriage Return ASCII code '0x0D'

#### OK Acknowledgement

[OK]

\* 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

[NG]

\* If there is error, it returns NG.

RS-232C

# **Controlling the Multiple Product**



Transmission / Receiving Protocol

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

► To control Power On/Off of the Set.

Transmission

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

Data(ASCII) 000 : Power Off 001 : Power On

Acknowledgement

[OK]

#### 02. Source (Command : I)

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

Transmission

[j][Set ID][I][Data][Cr]		
Data(ASCII) 000 : RGB	001	DVI

Acknowledgement

[OK]





#### 03. Brightness(Command : m)

► To adjust screen brightness.

You can also adjust the brightness in the Picture menu.

**Transmission** 

[j][Set ID][m][Data][Cr]

Data(ASCII) Min: 000 ~ Max: 100

Acknowledgement

[OK]

#### 04. Contrast(Command : n)

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

Transmission

[j][Set ID][n][Data][Cr]

Data(ASCII) Min: 000 ~ Max: 100

Acknowledgement

[OK]

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#### 05. Color Temperature (Command : p)

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

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

Data (ASCII)

000 : Normal

001 : Cool

002 : Warm

003 : User

Acknowledgement

[OK]

#### 06. Resolution (Command : q)

► To adjust the screen format.

**Transmission** 

[j][Set ID][q][Data][Cr]

Data (ASCII) 000 : 1366 X 768 001 : 1360 X 768 002 : 1024 X 768

Acknowledgement

[OK]

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### Transmission / Receiving Protocol

#### 07. Zoom (Command : r)

▶ To adjust the enlarged or reduced areas on the screen when the product is in Zoom mode.

Transmission

[j][Set ID][r][Data][Cr]

Data (ASCII) 000 : Normal 001 : Zoom 002 : Full

Acknowledgement

[OK]

#### 08. Auto adjust (Command: s)

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

Transmission

[j][Set ID][s][Data][Cr]

Data (ASCII) 000 : To set

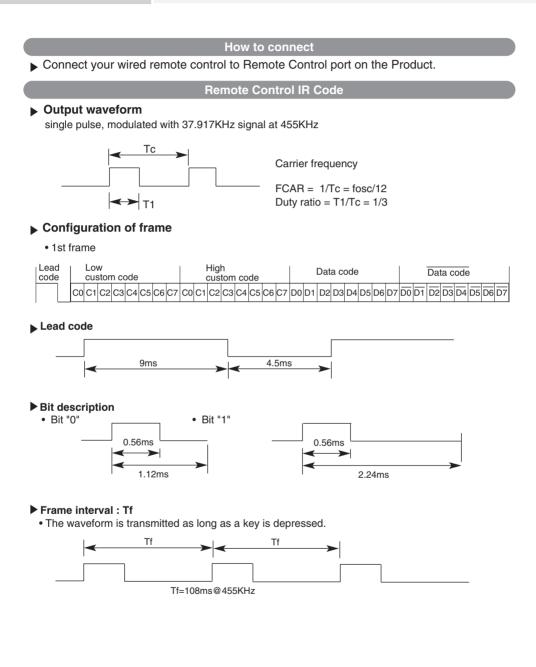
Acknowledgement

[OK]

A1

### Remote Control

## **IR Codes**



### **Remote Control**

## **IR Codes**

Code(Hexa)	Function	Note
0FH		R/C Button (Menu Navigation, Zoom Hot key)
16H	▼	R/C Button (Menu Navigation)
17H	•	R/C Button (Increment Value, Select menu item)
12H	•	R/C Button (Decrement Value, Select menu item)
03H	POWER ON/OFF	PR/C Button (Power On/Off)
07H	SOURCE	R/C Button (D-Sub, DVI)
11H	MENU	R/C Button (Menu On/Off)
0CH	AUTO ADJUST	Discrete IR Code (D-Sub Only)

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

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