

ATTACHMENT E -2.

- USER'S MANUAL -

HYUNDAI LCD COLOR TV

Option Setup



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Choosing Your Language

When you start using your TV for the first time, you must select your language preference in order to display main menu and sub menus, etc.

MENU

Press Menu button.
Menu items appear on the screen.

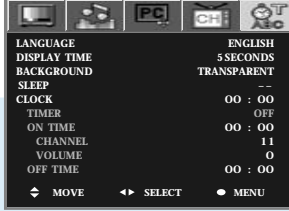
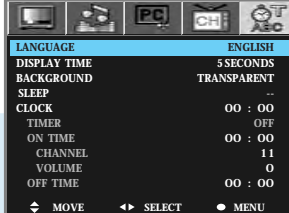
1 **Press Left and Right buttons to select "Option icon".**

2 **Press Up and Down buttons to move to "language".**

3 **Press Left and Right buttons, then the menu changes in order below.**
⇒ ENGLISH ⇒ FRANÇAIS ⇒ DEUTSCH
⇒ ESPAÑOL ⇒ ITALIANO ⇒ 한국어

EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

How to Set OSD(On-Screen-Display) Display Time

MENU

Press Menu button.
Menu items appear on the screen.

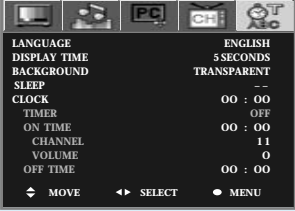
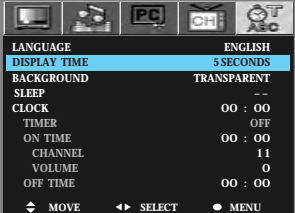
1 **Press Left and Right buttons to select "Option icon".**

2 **Press Up and Down buttons to move to "Display Time".**

3 **Press Left and Right buttons, then the menu changes in order below.**
⇒ 5 SECONDS ⇒ 15 SECONDS ⇒ 20 SECONDS
⇒ 25 SECONDS ⇒ 30 SECONDS ⇒ 40 SECONDS ⇒

EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.


- If you do not press the EXIT button after adjusting the OSD display time, the OSD menu will disappear automatically after the set time.



How to Select OSD the Background

User can select background type on On-Screen-Display.

MENU

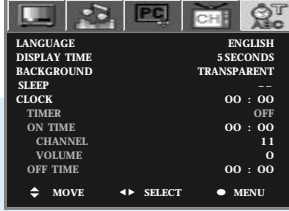
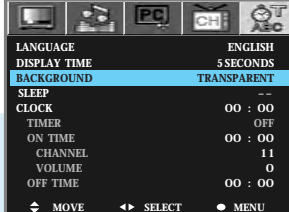
1 Press Menu button.
Menu items appear on the screen.

1 Press Left and Right buttons to select "Option icon".

2 Press Up and Down buttons to move to "Background".

3 Press Left and Right buttons to select "Transparent/Opaque".

EXIT Press **MENU** button after the setting is done, and Menu goes to the **previous menu**.
If the **EXIT** button is pressed, the menu disappears.

How to Set Sleep Time

This function allows you to automatically turn off your LCD TV after a designated amount of time.

MENU

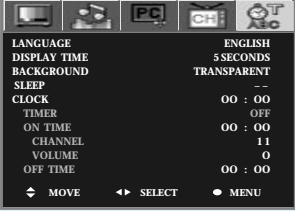
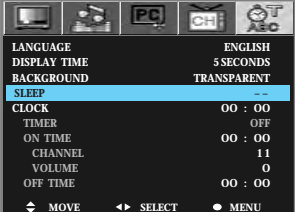
1 Press Menu button.
Menu items appear on the screen.

1 Press Left and Right buttons to select "Option icon".

2 Press Up and Down buttons to move to "Sleep".

3 Press Left and Right buttons, then the menu changes in order below.
⇒ 15 MINUTES ⇒ 30 MINUTES ⇒ 45 MINUTES
⇒ 60 MINUTES ⇒ 90 MINUTES ⇒ 120 MINUTES ⇒ OFF(-) ⇒

EXIT Press **MENU** button after the setting is done, and Menu goes to the **previous menu**.
If the **EXIT** button is pressed, the menu disappears.

How To Directly Select SLEEP : Press **SLEEP** button.

User can select ⇒ 15 MINUTES ⇒ 30 MINUTES ⇒ 45 MINUTES ⇒ 60 MINUTES ⇒ 90 MINUTES ⇒ 120 MINUTES ⇒ OFF(-) ⇒ in order.



If the sleep time has been set, it will be displayed "TURN OFF AFTER 1 MIN" before your TV turns off.



How to Set Clock

You can set the current time so that it may be displayed by pressing the "INFO" button. You must also set a clock if you wish to use the automatic on or off timers.

MENU

1 Press Menu button.
Menu items appear on the screen.

2 Press Left and Right buttons to select "Option icon".

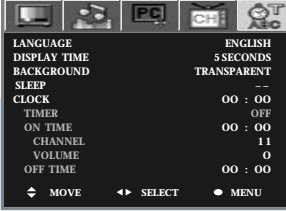
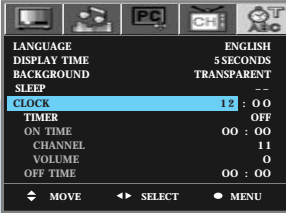
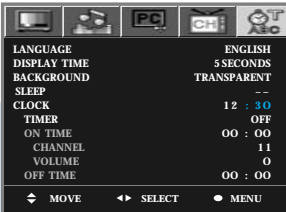
3 Press Up and Down buttons to move to "Clock".
then cursors are moved to "Hour" unit.

4 Press Left and Right buttons to set the "Hour".

Press Up and Down buttons and then go to step 4 if you need to set the "Minute".

5 Press Left and Right buttons to set the "Minute".

EXIT Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

TIP

- When the power supply AC main power is cut off, the clock is reset to the value before the Time set.
- User cannot use number(0~9) buttons to set the clock.

How to Set On /Off Time

- This function allows you to automatically turn on/off your LCD TV at the preset time.
- 이 기능을 사용하기 위해서는 우선, 타이머를 ON으로 설정해야 합니다.

MENU

1 Press Menu button.
Menu items appear on the screen.

2 Press Left and Right buttons to select "Option icon".

3 Press Up and Down buttons to move to "Timer".

4 Press Left and Right buttons to select "ON".

Press Up and Down buttons and then go to step 4 if you need to set to "On Time".

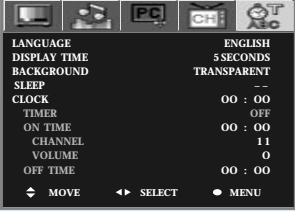
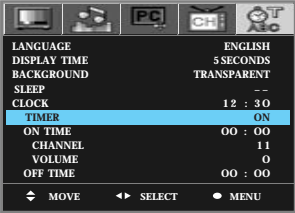
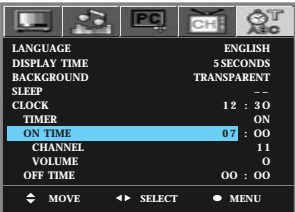
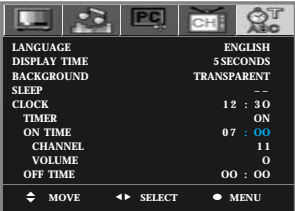
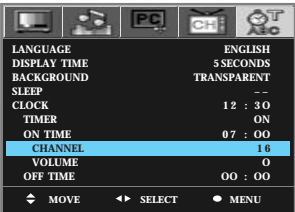
5 Cursors are moved to "ON TIME".
Press Left and Right buttons to set to "Hour".

Press Up and Down buttons and then go to step 5 if you need to set to "Minute".

6 Press Left and Right buttons to set to "Minute".

Press Up and Down buttons and then go to step 6 if you need to set to "TV channel".

7 Cursors are moved to "CHANNEL".
Press Left and Right buttons to set to "Channel Number".

Continued on next page



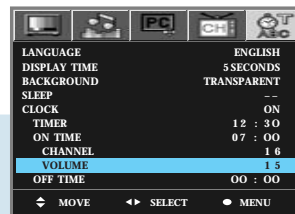
..... Continued from previous page. (Set the volume level at the time when your LCD TV turns on.)

7



Press Up and Down buttons and then go to step 7 if you need to set to "Volume".

Press Left and Right buttons to adjust "Volume".

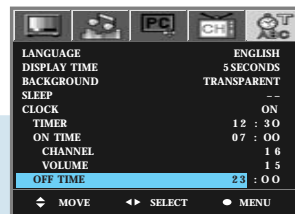


8



Press Up and Down buttons and then go to step 8 if you need to set to "Off Time".

Cursors are moved to "OFF TIME". Press Left and Right buttons to set to "Hour".



9



Press Up and Down buttons and then go to step 9 if you need to set to "Minute".

Press Left and Right buttons to set to "Minute".



Press **MENU** button after the setting is done, and Menu goes to the previous menu. If the **EXIT** button is pressed, the menu disappears.

TIP

- Regardless of which Input Mode you set On Time in, your LCD TV will turn on in TV Mode only.
- User cannot use number(0~9) buttons to set the On/Off Time.

Displaying Information

You can view the channel information and setting status by pressing the "INFO" button on the remote control.

INFO



In case of applying TV input
Press INFO button.

CATV 31
USER : MONO
CLOCK PM 12 : 30
ON TIME AM 7 : 20
OFF TIME PM 11 : 30

INFO



In case of applying VIDEO input
Press INFO button.

VIDEO
CLOCK PM 12 : 30
ON TIME AM 7 : 20
OFF TIME PM 11 : 30

INFO



In case of applying S-VIDEO input
Press INFO button.

S-VIDEO
CLOCK PM 12 : 30
ON TIME AM 7 : 20
OFF TIME PM 11 : 30

INFO



In case of applying COMPONENT input
Press INFO button.

COMPONENT
1080i
CLOCK PM 12 : 30
ON TIME AM 7 : 20
OFF TIME PM 11 : 30

INFO



In case of applying PC input
Press INFO button.

PC
1024 x 768
CLOCK PM 12 : 30
ON TIME AM 7 : 20
OFF TIME PM 11 : 30



How to View Closed Captions

- This is to displays the closed captions that are broadcasted with certain TV shows.
- This function is available only with the remote control.



Press "CC" button.
This selection will switch in order below whenever you press this button on the remote control.

⇒ Off ⇒ CC 1~4 ⇒ TEXT 1~4 ⇒



To deselect Closed Caption function.
Press "CC" button once more.

TIP

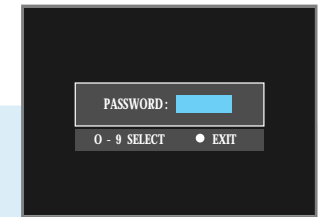
Different Channels display different information.

How to Select the V-Chip Control

- The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a Password before any of the V-Chip restrictions are set up or changed.
- This is function available only with remote control.



Press **V-CHIP** button.
Password items appear on the screen.



1

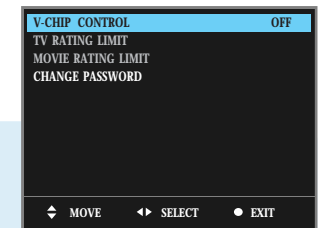


Enter your **4-digit password**.
(The default password for a new TV set is "0000".)
Then new menu appears.

2



Press **Up and Down** buttons to move to
"V-Chip Control".



3



Press **Left and Right** buttons,
then the menu changes in order below.
⇒ Off ⇒ Child ⇒ Youth ⇒ Youth Adult ⇒ Custom ⇒



Press **MENU** button after the setting is done, and Menu goes to the **previous menu**.
If the **EXIT** button is pressed, the menu **disappears**.

OFF : Parental lock is disabled. All programs are unblocked from viewing.
CHILD : The permitted Maximum ratings are TV-Y, TV-G, G.
YOUTH : The permitted Maximum ratings are TV-PG, PG.
YOUTH ADULT : The permitted Maximum ratings are TV-14, PG-13.
CUSTOM : Select to set ratings manually. → [see the next page](#)

TIP

When the V-Chip feature is activated, the PIP, POP and Multi features do not function.

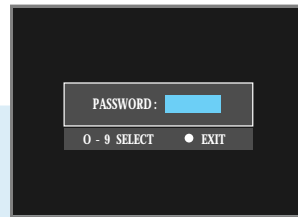


How to Set the Desired V-Chip Control

- Users can manually adjust the V-Chip in their own ways.
- This is function available only with remote control.



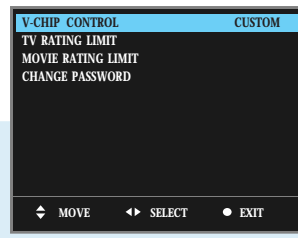
Press V-CHIP button.
Password items appear on the screen.



1 Enter you 4-digit password.
(The default password for a new TV set is "0000".)
Then new menu appears.



2 Press Up and Down buttons to move to "V-Chip Control".

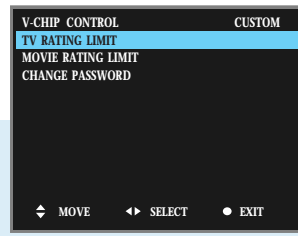


3 Press Left and Right buttons to select "Custom".

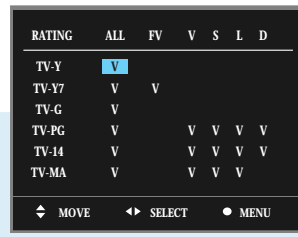
Go to step 4, if you need to set "TV Rating Limit".



4 Press Up and Down buttons to move to "TV Rating Limit".



5 Press Left and Right buttons to select "TV Rating Limit".
Then new menu appears.



상하버튼을 눌러 이동하고, 좌우버튼을 눌러 "View/Block"을 선택하십시오

BLOCK : When TV signal or movies display without restriction ratings, TV or Movies signal will be blocked, and a blank screen will be displayed.

VIEW : When TV signal or movies display without restriction ratings, All signals will be unblocked, and you can view any other program

Continued on next page

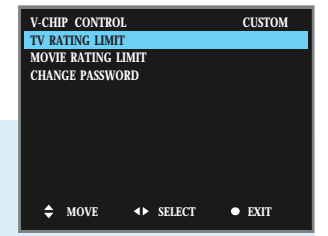
..... Continued from previous page.

TV-Y : Young children. **TV-Y7:** Child 7 and over.
TV-G : General audience. **TV-PG :** Parental guidance suggested.
TV-14: Parents strongly cautioned. **TV-MA :** Mature audience.

Sub-ratings	Restrictive ratings
FV : F Violence	TV-Y7 -> View
V : Violence	TV PG -> TV-14 -> View
S : Sex Scenes	TV PG -> TV-14 -> TV-MA -> View
L : Language	TV-PG -> TV-14 -> TV-MA -> View
D : Dialogue	TV-PG -> TV-14 -> TV-MA -> View



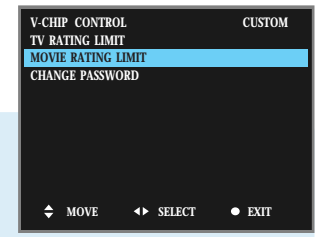
6 Press MENU button after the setting is done, and menu goes to the previous menu.



Go to step 7, if you need to set "Movie Rating Limit".

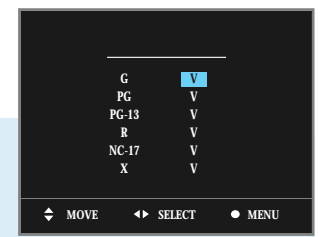


7 Press Up and Down buttons to move to "Movie Rating Limit".



8 Press Left and Right buttons to select "Movie Rating Limit".
Then new menu appears.

상하버튼을 눌러 이동하고, 좌우버튼을 눌러 "View/Block"을 선택하십시오



Continued on next page



..... Continued from previous page.

G : All children and General audience.
PG : Parental guidance suggested.
PG-13 : Parental guidance for children under 13.
R : Restricted viewing, parental guidance is suggested for children under 17.
NC-17 : No children under age 17. **X** : Adults only.

9

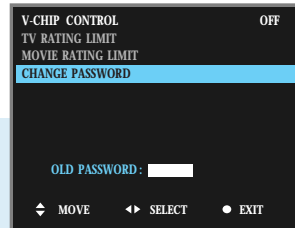
Press **MENU** button after the setting is done, and menu goes to the previous menu.

Go to step 10, if you need to set "Change Password".

10



Press **Up** and **Down** buttons to move to "Change Password".



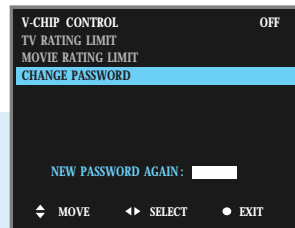
11



Press **Left** and **Right** buttons to select "Change Password". Then new message appears.

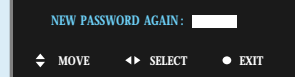
12

Enter your old and new 4-digit password by using the numeric keys.



13

When "New Password Again" message appears, enter your new password again.



Press **MENU** button after the setting is done, and Menu goes to the previous menu. If the **EXIT** button is pressed, the menu disappears.

HYUNDAI LCD COLOR TV

Appendix



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Glossary

Component video	Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S VIDEO by splitting chrominance into two separate portions.
Composite video	Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.
S-VIDEO	S-VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S-VIDEO provides better resolution than composite video, which carries the signals together.
480i	Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.
480p	Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
720p	Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
1080i	Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).
Digital television (DTV)	A new technology for transmitting and receiving broadcast television signals. DTV provides higher resolution and improved sound quality over analog television.
HDTV(High Definition TV)	HDTV is a new kind of digital TV, creating a high quality picture, high definition. The HDTV provides a theater-like screen with an aspect ratio of 16:9. Supports 480p or higher.
SDTV(Standard Definition TV)	SDTV is a new kind of standard definition digital TV, having a range of lower resolution than the HDTV. Supports 480i.
Cable Broadcast Receiver (Converter)	A device that receives cable broadcasting. Connecting it to your TV set allows you to watch a various channels.
Satellite Broadcasting	Provides crisp picture and clear audio quality throughout the country via a satellite.
VHF/UHF	VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.

DVD DVD (digital versatile disc) is an optical disc that can store a huge volume of multimedia such as video, game, and audio application, etc.

Coaxial Cable Coaxial cable is the kind of rounded copper cable, which is generally used for TV antenna.

Aspect ratio Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.

PIP (Simultaneous Screen) PIP allows you to view two images at the same time in a single screen.

Picture Mode Picture Mode features the optimal picture quality. There are Dynamic-Mild-Standard-User features in order. "User Control" allows you to adjust Contrast, Brightness, Colour, Tint, etc.

Audio Mode Sound Mode features the optimal sound quality. There are Standard-Music-Movie-News-User features in order. "User Control" allows you to adjust high frequency sound, middle frequency sound and low frequency sound.

Channel Tuning The feature allows you to enjoy optimal broadcasting. This product provides automatic tuning feature for the best broadcasting status. You can tune the channels manually.



Troubleshooting

Installation Problems

Symptom	Possible solution
How can I install an antenna?	Refer to pages 23~24.
TV screen is not clear after installing an indoors antenna.	Indoors antenna may experience poor reception due to surrounding buildings. Please install an outdoors antenna or wireless antenna.
How can I view cable broadcasting?	Please install a cable broadcasting receiver (Converter).

Picture Problems

Symptom	Possible solution
Neither picture nor sound comes up.	Check whether power is on. Check whether the power is cut or whether power cord is properly connected. Try to plug another product's power cord to the outlet the LCD TV is plugged into.
Picture turns on slowly after power is on.	This symptom is not a malfunction. This delay is designed to prevent the distorted and noisy picture when power is on. However, if the picture does not appear more than 5 minutes after power is on, call a service center.
Vertical and horizontal lines and web patterns briefly appear on the picture and shake.	This symptom may be caused by interference from other electric appliances. Please avoid using a cordless phone, hairdryer, and electric drill, etc.
Input Source information only appears on black screen.	Check whether your TV is properly connected to external devices.
Poor reception on some channels.	Check whether you selected proper channels. Try re-orienting your antenna. Ensure LNA is activated.
Black and white on some channels.	Check other channels for black and white screen. Adjust colour.
TV won't turn on.	Ensure the power cord is plugged.
Screen is too bright or too dark.	Adjust brightness.

Auto On does not work.

Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

After setting the time, I turned TV off and turn it on. The programmed information has been erased.

Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

Audio Problems

Symptom	Possible solution
Too much noise occurs.	Check whether the audio setting is in the Stereo mode. In the Stereo mode, the sound may be distorted in the area where experiences poor reception or is located far away from a TV broadcasting station.
No sound while viewing a cable channel	Make sure an audio or audio/video component is securely inserted into the appropriate jacks. Check other channels for sound. Check the volume settings on the cable broadcasting receiver.
Picture is OK but sound does not come out.	Try to press volume up/volume down buttons of your remote control.
One of the speakers does not produce sound.	Select sound balance and make proper adjustment. (Page 41) Check the speaker connection cables.

General

Symptom	Possible solution
Remote control won't work.	Check whether there is a blocking object between the remote control and LCD TV. Make sure your LCD TV is Power On. (In case of normal, LED on the front panel is in Red.) Check whether batteries are inserted with proper polarities(+, -). When the batteries are worn out, replace with new ones.
Where does the S-Video cable plug in for audio output?	Connect the two Audio jacks from the S-Video cable to the left and right ports on the Composite.
Strange noises are heard.	Ticking noise during or after watching is caused by the change of ambient environment such as humidity and temperature, which is characterized by plastic products. Strange ticking noise occurs because a signal is suddenly transmitted to the LCD panel. So, this is not a malfunction.
I tried to use the TV screen as a PC monitor but it doesn't work.	Adjust the resolution referring to the standard signal mode table. Check the specification of your video card installed in your PC. If your video card does not work in supported hardware. Try upgrading the video card's driver.



Care and Cleaning

Cabinet Cleaning

Wipe a soft dry cloth.

Do not use inflammables like Benzene or Thinner, or wet clothes.
Do not scratch the panel of TV with a fingernail or pointed object.



Screen Cleaning

Clean the screen with a soft cloth moistened in mild glass detergent and dry with a soft cloth.

Never use any solvent on the screen such as Acetone, Benzene, or Thinner, etc.

Cleaning Inside

When the inside needs to be cleaned, contact a service center or distribution agent where the item is purchased.

It is recommended cleaning is complete before the rainy season.

Product Specifications

MODEL		HQL170WR	HQL200NR	
Display	Size	17" Diagonal (15:9)	20" Diagonal (4:3)	
	Type	a-si TFT active matrix	a-si TFT active matrix	
	Contrast Ratio	600 :1	600 :1	
	Luiminance (cd/m²)	Typical 450	Typical 500	
	Viewing Angle	170 (H) /170 (V)	170 (H) /170 (V)	
	Resolution	1280 x 768	640 x 480	
	Pixel Pictch (mm)	0.2895 mm (H) x 0.2895 mm (V)	0.2115 mm (H) x 0.6345 mm (V)	
	Pixel arrangement	RGB Vertical stripe(Asymmetric)	RGB Vertical stripe(Asymmetric)	
	Input/Output	S-Video	1 EA(with common A/V Audio)	1 EA(with common A/V Audio)
		A/V (RCA)	1 EA (Input, with Audio)	1 EA (Input, with Audio)
Component(Y/Cb/Cr)		1 EA (with Audio)	1 EA (with Audio)	
RF		1 EA	1 EA	
PC		Connector	D-SUB	D-SUB
		Max. Resolution	1280 X 768 @ 60 Hz	1024 X 768 @ 75 Hz
		Audio	PC Audio	PC Audio
		Headphone	1 EA	1 EA
TV/VIDEO		Color System	NTSC M	NTSC M
		Sound System	AM, FM	AM, FM
	Video System	CVBS, S-VHS, RGB, Component	CVBS, S-VHS, RGB, Component	
Power	Supply	AC 110 - 240 V, 50/60 Hz	AC 110 - 240 V, 50/60 Hz	
	Consumption	Typical 70 W	Typical 75 W	
	Saving	Typical 1.8 W / (< 2.5 W)	Typical 1.8 W / (< 2.5 W)	
Dimension(W x D x H mm)		560 x 380 x 184 (with stand)	650 x 450 x 184 (with stand)	
Weight		6.3 Kg (with stand)	9 Kg (with stand)	
Control Type		Remote Control, Key Control	Remote Control, Key Control	

- Specification is subject to change without notice for performance improvement.

- Specification on 'dead pixel' of LCD panel applies to ISO13406-2 Standard.