

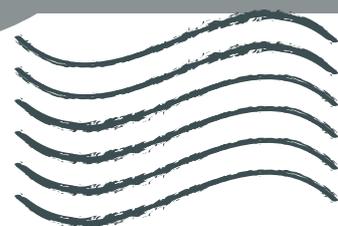
# CHIMEI

.....

# LED

## USER'S MANUAL

## LED多媒體液晶顯示器 使用手冊



**42"** TL-42Z8000D

**46"** TL-46Z8000D

# User's Manual

LED Multimedia LCD Display

## Table of Contents

Important Safety Instructions .....	02
Cleaning and Maintenance .....	04
Repair Service .....	05
Descriptions and accessories .....	06
<b>LED Operation of Multimedia LCD Display</b>	
Connectors and sockets .....	07
Control panel .....	12
Remote Control .....	13
Favorite Channels .....	15
CEC Operating Instruction .....	16
<b>LCD Display Menu</b>	
PICTURE .....	18
ADVANCE .....	19
AUDIO .....	20
TV .....	21
GEOMETRY .....	22
SETUP .....	23
<b>Digital TV</b>	
Instructions on First Installation .....	24
Quick Start Illustration .....	25
Electronic Program Guide (EPG) .....	29
<b>U-Link</b>	
U-Link Operating Instructions .....	30
Descriptions of U-Link Personal Video Recording (PVR) .....	34
<b>Other Information</b>	
Trouble-shooting .....	35
Specifications .....	36
U-Link compatibility reference .....	37



TruSurround XT is the registered trademark of SRS Labs, Inc. This product is authorized to use SRS TruSurround XT technology by SRS Labs, Inc. TruSurround XT<sup>®</sup> can utilize two speakers for a surround-sound effect with vivid vocals and vibrant bass.

## Important Safety Instructions

 Read and comply with all instructions, bear the warnings in mind and keep the manual properly.

 <div style="background-color: black; color: white; padding: 5px; text-align: center;"> <b>Notice</b>  <b>RISK OF ELECTRIC SHOCK DO NOT OPEN</b> </div> 	 <p><b>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.</b></p>
--	--



This logo indicates that there is un-insulated “dangerous voltage” inside the product and may incur the risk of electric shock.



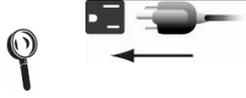
The exclamation point within an equilateral triangle is intended to alert the user to the important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### [Installation and Usage]

1.  Install as per the manufacturer's instructions. Only use attachments/accessories specified by the manufacturer.
2.  This apparatus shall be placed on a desk or mounted on a wall in accordance with the installation instructions. In order to prevent the TV set from falling to the ground in case of unexpected natural disasters or serious accidents, you are advised to use anti-tip auxiliary screw holes for secure fixation. Do not place the apparatus on an unstable stand or table as it may fall and cause injuries.
3.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or supplied with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
4. When transporting the LED Multimedia LCD Display, be sure to carry it by two people with two hands to avoid falling and damage.
5. Keep away from objects that may stab the LED Multimedia LCD Display to keep the high-voltage device or the internal parts inside it from getting damaged.
6.  Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
7.  Do not install LED Multimedia LCD Display near high-temperature objects or flame sources (such as lighted candles).
8.  The apparatus shall not be exposed to dripping or splashing and no objects filled with water, such as vases, shall be placed on the apparatus.
9.  NEVER install the LED Multimedia LCD Display in the bathroom or shower room; otherwise there might be risks of fire or electric shock.
10. Do not allow the LED Multimedia Display to lean tightly against the wall. Ensure appropriate space for heat dissipation to avoid aging of the power cord.
11. Please clean the back of the LED Multimedia Display regularly (once a month is suggested). Avoid the dust and cotton into the machine which may cause damage.

## Important Safety Instructions

### [Power Supply]



For safety sake, the plug of the LED Multimedia LCD Display is designed in such a manner that you can plug into a socket in a certain direction. To protect your device from electrical shock, be sure to plug the cord into the socket securely. If you have problems plugging into the socket, please contact your distributor.

1. Do not defeat the safety purpose of the polarized or grounding type plug. Polarized type plug has two flat pins, one wide and the other narrow. Grounding type plug has two flat pins and one round grounding pin. The wider flat pin and round grounding pin are designed for safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The apparatus must be connected to a main socket outlet with a protected earthed connection.



2. Check the LED Multimedia LCD Display power specification shown on the serial No./model tag. Be sure to use the power according to the specification. If you are unsure about the power requirement, please contact your distributor or local power company.

3. DO NOT overload power sockets or extension cords. Overloading poses a risk of electric shock or fire. Please purchase optional extension cord that can switch off automatically upon overloading.



4. The power cords shall be checked and cleaned regularly. Check if they are gnawed by pets or rats. If this occurs, change the power cord immediately.

### [Ventilation]

1. The ventilation openings on the back of LED Multimedia LCD Display are provided for ventilation and heat dissipation and a 10 cm space shall be provided around them. Do not block any vent and keep it clear.



2. DO NOT place the LED Multimedia LCD Display on beds, sofas or carpet, as this may block the vent.

5. Prevent the power cord of LED Multimedia LCD Display from being pressed or kinked by a foreign object. Do not bundle or roll up the power cord to avoid dissipation interruption. Keep your LED Multimedia LCD Display away from any place where the power cord is easily scuffed. Use only the correct power cord.



6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. If there is any flaw, change a new one immediately.

7. In case of thunderstorm or if the device is not used for a long time, remove the power plug to prevent damage of the LED Multimedia LCD Display due to abnormal surge.

8. DO NOT put the power cord around any apparatus that generates heat. If the protective jacket of the power cord is melted or burnt, there might be risks of fire or electric shock. Do NOT pile inflammable things (like paper) near the power cord.

9. The readily operable appliance coupler will serve as the disconnecting device of this apparatus.

10. When the product is purchased or used in different countries, you should use an appropriate power cord which is compliant with local laws and regulations.

3. DO NOT use the LED Multimedia LCD Display in enclosed or confined spaces such as a bookshelf, bookcase or wardrobe.

4. Keep the LED Multimedia LCD Display from direct sunlight.

## Important Safety Instructions

### [LCD Display]

1.  Due to the liquid-crystal characteristics of the LED LCD panel, if one watches at a 4:3 picture aspect ratio or the same picture stays frozen for a long time, it will lead to image sticking. Therefore, you are advised not to watch TV at a 4:3 picture aspect ratio for a long time or leave the picture frozen. Otherwise, any image sticking or abnormality cannot be repaired and will not be covered under warranty.
2. The LED LCD Display panel is manufactured using high precision technologies. However, since no manufacture technology that can ensure the LED LCD Display panel is 100% free from bright spots or shadows is available in the market, we cannot provide guarantee for the LED LCD Display panel free from bright spots.
3. As this model features a self-protection mechanism, users have to wait about 10 seconds for the screen to appear after power on.
4. This equipment is for entertainment use only. Not recommended for professional image work.

### [CATV]

1. Be sure to acquire due authorization from the broadcaster/CATV service provider/program owner before using the LED LCD Display receiver to watch programs through UHF, VHF, or CATV.
2. You are advised not to use TV signal splitters to avoid inferior signal quality.

## Cleaning and Maintenance

### [Tips for cleaning the Multimedia LCD Display]

- The LED LCD screen/enclosure/outer frame are fine products that have undergone special surface treatment and need to be maintained and cleaned regularly. Be sure to read the following instructions carefully before cleaning. Any damage due to improper or wrong cleaning methods is not covered by the warranty.
  - Before cleaning the LED LCD screen/enclosure/outer frame, remove the AC power from the AC power socket.
1. When wiping the dust off the LED LCD screen or enclosure, please remove most of the dust with the blower and then wipe the screen softly with the ultra-thin fiber cloth for the LCD Display. If the dust is difficult to remove, wipe with some special neutral cleanser for LCD Display. Please follow the instructions of the cleaning product; moreover, small dust on the wiping cloth may scratch the surface of the screen. Please wash the wiping cloth regularly. Never wipe the LCD screen/enclosure with thick fiber cloth to avoid damages or scratches.
  2. Avoid using any type of alkaline/acidic cleaner, washing powder, toluene, or volatile solvents such as alcohol, gasoline, diluter, or pesticide. Otherwise, the surface of the screen and the enclosure of the LED Multimedia LCD Display may be damaged.
  3.  When cleaning the LED LCD screen or enclosure, do not pour or apply large amount of liquid onto the LCD screen directly to avoid unexpected damages to the LCD screen. In case that the screen is stained with water droplets, remove them with a soft cloth immediately.
  4.  As the structure of the LED LCD screen is delicate, do not press the screen or touch the surface with screwdrivers, pen tips or other sharp objects to avoid breaking the screen.

## Repair Service

### [Repair]



Please do not attempt to repair the LED Multimedia LCD Display by yourself. There are high-voltage components inside the housings of this LED Multimedia LCD Display that may cause an electric shock.

1. If any of following occurs, unplug the LED Multimedia LCD Display and contact your distributor or qualified service personnel from the original manufacturer to repair the LED Multimedia LCD Display:
  - 1.1 The power cord or plug is damaged or scuffed.
  - 1.2 Liquid enters the LED Multimedia LCD Display.
  - 1.3 LED Multimedia LCD Display is damp or wet.
  - 1.4 The enclosure of the LED Multimedia LCD Display is damaged.
  - 1.5 LED Multimedia LCD Display malfunctions.
  - 1.6 Drop from a high place.
  - 1.7 Fume or sparkles occur to cause safety concerns.
2. Refer all servicing to qualified service personnel from the original manufacturer.
3. Do not use parts or components other than those supplied by qualified service personnel of the original manufacturer as they may shorten the life of the product, or result in electrical abnormality which may affect safety.
4. Safety inspection  
When there is a need for checking the safety during the use of the LED Multimedia LCD Display or to repair the display due to faults, please notify the qualified service personnel of the original manufacturer for check and repair services.
5. In case of any fault of the LED Multimedia LCD Display after the expiration of the warranty period, please notify the qualified service personnel of the original manufacturer for check and repair services.
6. These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

### [History of Use]



Please carefully read and follow all of the warnings and instructions in this manual. Failure to read and follow them will void the warranty. Modification of the LED Multimedia LCD Display without authorization will void the warrant immediately.

1. You can find the serial number and model tag on the back of the LED Multimedia LCD Display. Please tell your distributor or qualified service personnel the serial number when you contact them.
2. Used or discharged batteries must be properly disposed of or recycled in compliance with all applicable laws. For detailed information, please contact your local solid waste disposal authority.



Please recycle used batteries.

### [Disposal of Waste Displays]

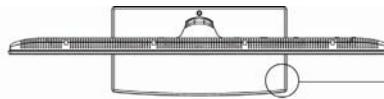
In accordance with the requirements of the Environmental Protection Administration, waste displays must be disposed of properly to avoid harmful effects to the environment.

When you want to discard your display, please follow the waste disposal methods:

1. When purchasing a new display, you can have the discarded one recycled by the distributor.
2. You can consult the Recycling Fund Management Board for electronic & electrical items. The service hotline is 0800-085-717.

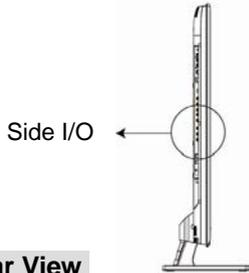
## Descriptions and accessories

### Top View

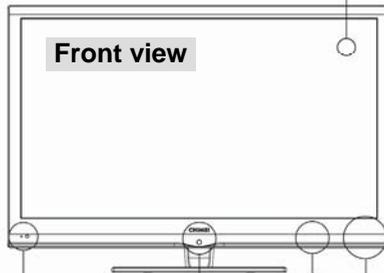


Stand

### Side View



Side I/O



Front view

LED Panel

### Rear View

Light Sensor  
IR Remote Receiver

Power Speakers

Control Panel

Wall Mount Hole  
Power Switch  
Power Connector

Antenna Connector

Rear I/O Connectors

Wire Clip

Support Hole

### Accessories



1. Remote Control 2. Batteries x 2 3. User Manual

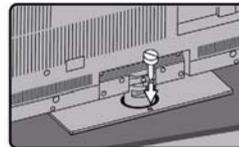


4. Power Cord (For SP-301+IS-15 VCTF 1.25)

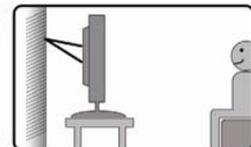
### Anti-tip Precaution

※ **In order to prevent this equipment from falling over in case of unexpected natural disasters or serious accidents, you are advised to use the anti-tip auxiliary screw holes for secure fixation.**

1. Before your operation, screw installation must be done on a stable table (recommended size: T4 x 12) (Fig. 1).
2. In the event of failure to fasten the screws on the table, please use another two bolts (recommended size: M6 x 25) and fasten them on the wall mount hole, then fix the LCD Display to the wall (Fig. 2) with a wire for safety.



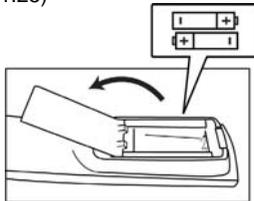
(Fig. 1)



(Fig. 2)

### Installation of batteries

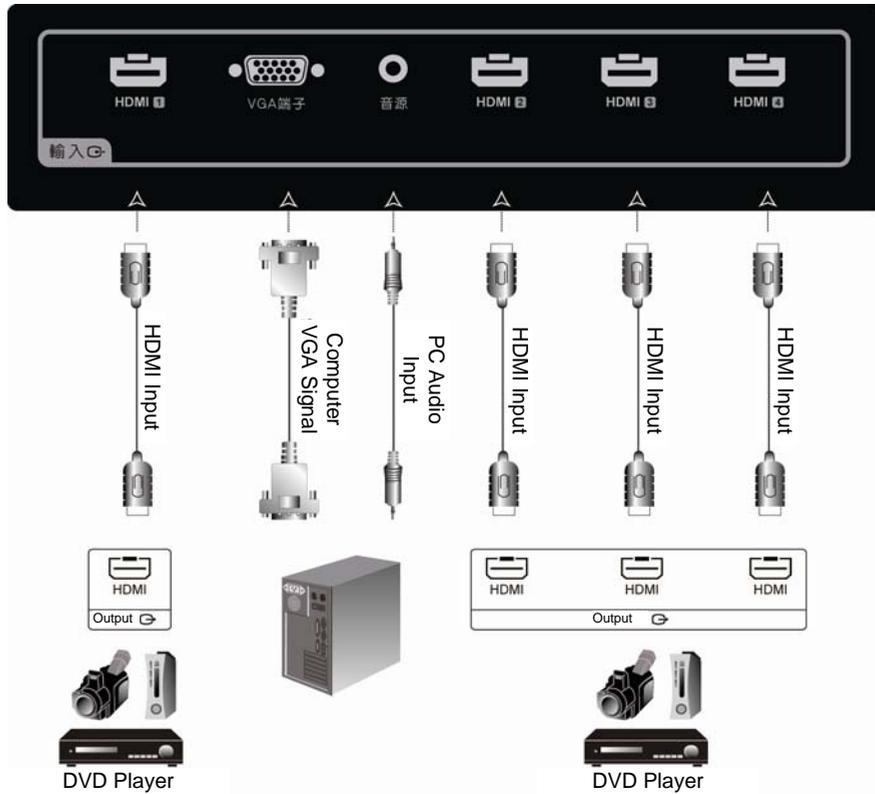
1. Insert two AAA batteries into the remote control.
2. Make sure positive electrode and negative electrode are facing the proper direction.
3. Replace the cover.



If the remote control will not to be used for a long time, remove the batteries to avoid the damage caused by liquid leaks.

Use the remote control carefully. Please do not drop the remote control on the ground. Avoid humidity, direct sunlight and heat.

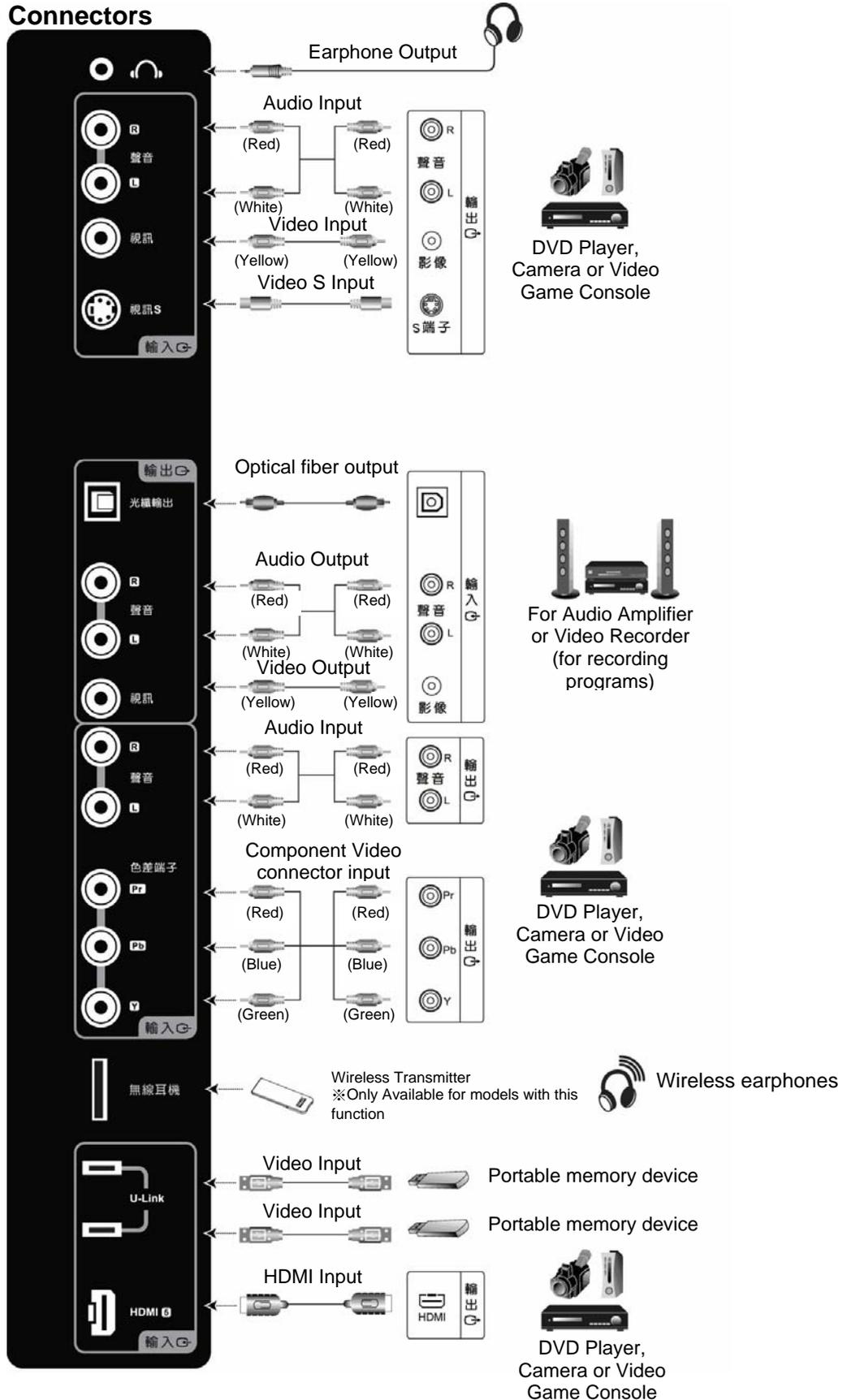
## Rear I/O Connectors



Port (Input)	Functions
HDMI 1, 2, 3, 4	<p>High Definition Multimedia Interface (HDMI):</p> <p>This port accepts devices with high definition video/audio signal-HDMI terminal output.</p> <p>This connection port supports HDTV video signals or PC-DVI signals.</p> <p>※The DVI signals come through HDMI input, the HDMI connection wire for DVI shall be used, and the sound connection shares the VGA-sound input terminal.</p>
VGA terminal	<p>VGA terminal and Audio Input:</p> <p>Can be connected to devices with VGA (RGB analog signals) terminals and sound output, for instance, computers and other devices.</p> <p>※The sound input terminal is shared by VGA/DVI (HDMI) and the terminal is 3.5mm jack.</p>

- ※ For details about the supportive signals, please refer to the specification pages of this User Manual.
- ※ When you switch the video source to VGA terminal or change screen resolutions, the system will automatically detect the change and optimize screen with a "Adjusting Screen Resolution" on its screen. Please wait for about 10 seconds for the system to make adjustment.

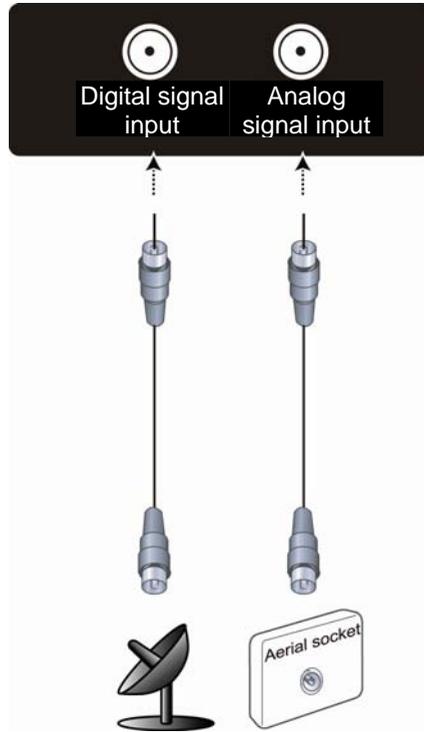
Side I/O Connectors



Port (Output)	Functions
Earphone	This connection port connects to earphones (16 Ω or 32 Ω) for the audio output signal. ※Once the earphone is connected, the speaker of the LED Multimedia LCD Display will stop sound output.
Port (Input)	Functions
Video/Video S	AV image terminal/S image terminal and sound terminal: Connects to devices with the AV terminal (composite signal) and audio R (right)/L (left) output. Connects to devices with composite S-Video (Y/C) terminal and audio R (right)/L (left) output.
Port (Output)	Functions
Optical fiber	Can be connected to amplifiers or devices with optical fiber input. The optical fiber output is sound signal only and the signal is digitally processed to obtain better sound quality.
Video	Can be connected to amplifier or video recording device with image (AV) and sound input terminals. ※Image output is limited to: Video/Analog (AIR/CATV) TV Antenna Signal Sources. Other signal sources can output their sound only. ※Sound output is not limited by the sound volume of the LCD.
Port (Input)	Functions
Component	Component Video Connector and sound terminal: Connects to devices with Component Video connector (YPbPr) and audio R (right)/L (left) output.
Port (Output)	Functions
Wireless earphones	For connection with Wireless Earphone Transmitter (Transmitting Card). ※Only Available for models with this function ※Wireless Earphone and Transmitter (Transmitting Card) are optional.
Port (Input)	Functions
U-Link	Portable memory device: This allows connection with portable memory device. ※Insert the portable memory device after turning on the TV.
HDMI 5	High Definition Multimedia Interface (HDMI): This port accepts devices with high definition video/audio signal-HDMI terminal output. ※This connection port supports HDTV video signals or PC-DVI signals. The DVI signals come through HDMI input, the HDMI connection wire for DVI shall be used, and the sound connection shares the VGA-sound input terminal.

- ※ For details about the supportive signals, please refer to the specification pages of this User Manual.
- ※ When you switch the video source to component video connector or change screen resolutions, the system will automatically detect the change and optimize screen with a “Adjusting Screen Resolution” on its screen. Please wait for about 10 seconds for the system to make adjustment.

**Antenna Connectors**

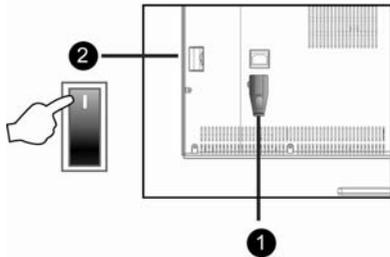


Port	Functions
Digital signal input	Connected to the Digital TV antenna (Signal).
Analog signal input	Connected to the Analog (AIR/CATV) TV antenna or signal.

- ※ This product requires an optional LCD TV box to enable the TV function.
- ※ Digital TV supports HD signal channels.

### Turn ON the LED Multimedia LCD Display

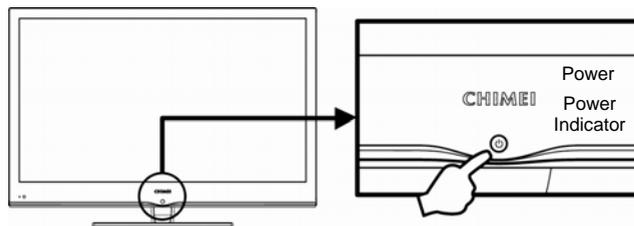
1. Plug the power cord into input connector on the back of the LED Multimedia LCD Display. Plug the other end of the power cord into an outlet.
2. Press the power button (I) at the back of the LED Multimedia LCD Display to turn on the power and press the other end to turn off the power.



AC 100~240V

Power outlets differ from region to region.

3. Press the POWER button on the front lower of the TV to turn on or off LED Multimedia LCD Display.

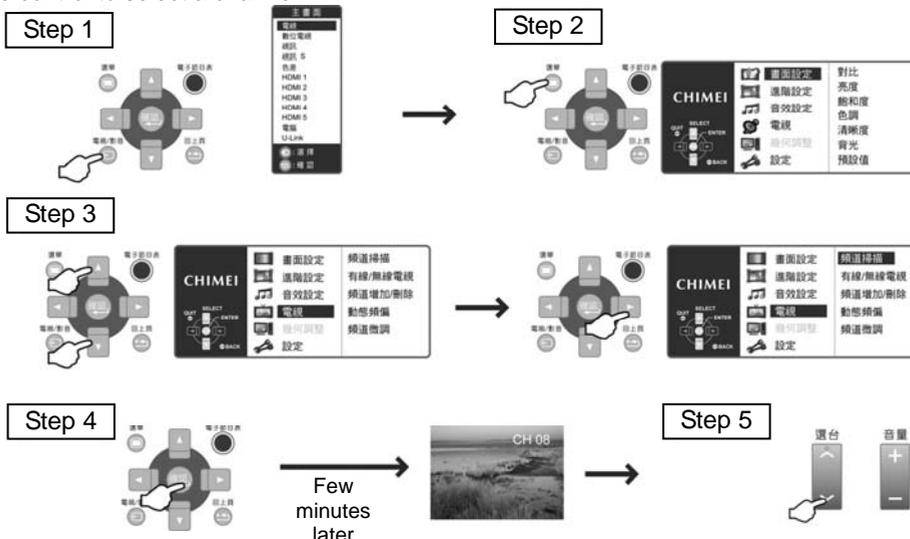


- When the power turns on, the Power Indicator will blink before it turns to its full brightness, and dim out at last.
- When the power turns off, the Power Indicator will gradually light up before it turns to half brightness and stays afterwards. Multimedia LCD Display enters STANDBY mode.

### Channel Scan (Analog TV)

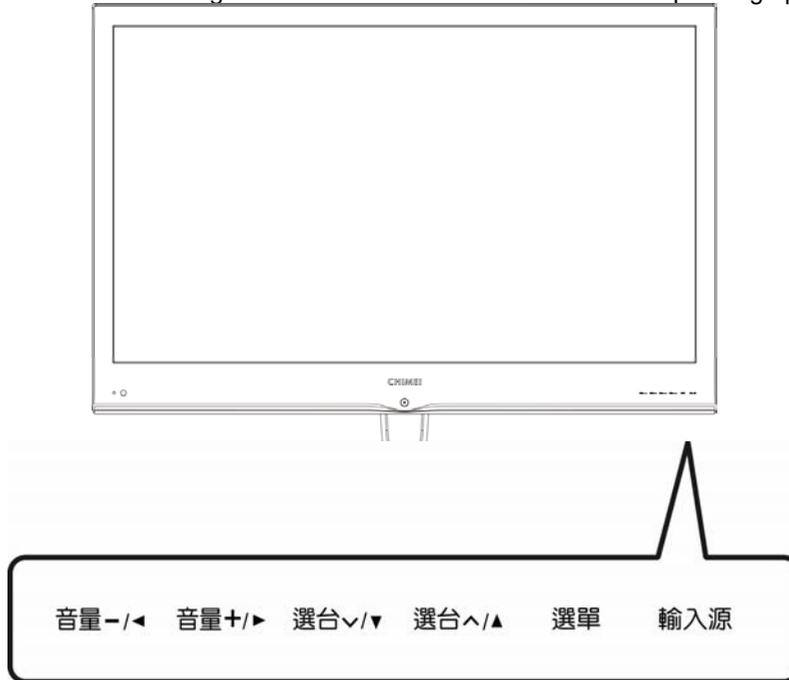
The auto channel scan must be performed for the first installation. **(This product requires an optional LCD TV box to enable the TV function)**

1. Press the "TV/Visual-Audio" button on the remote control or the "Input Source" button on the control panel of the LED Multimedia LCD Display to select the TV mode.
2. Press the "MENU" button to open the OSD screen.
3. Press the button to select "TV". Then press the button to move to the "Channel Scan" option.
4. Press the ENTER button to start auto channel scan. (During the auto channel scan, it will take a few minutes to scan available channels)
5. After the auto channel scan is completed, you may start watching TV. Press the "CH" button on the remote control to select a channel.

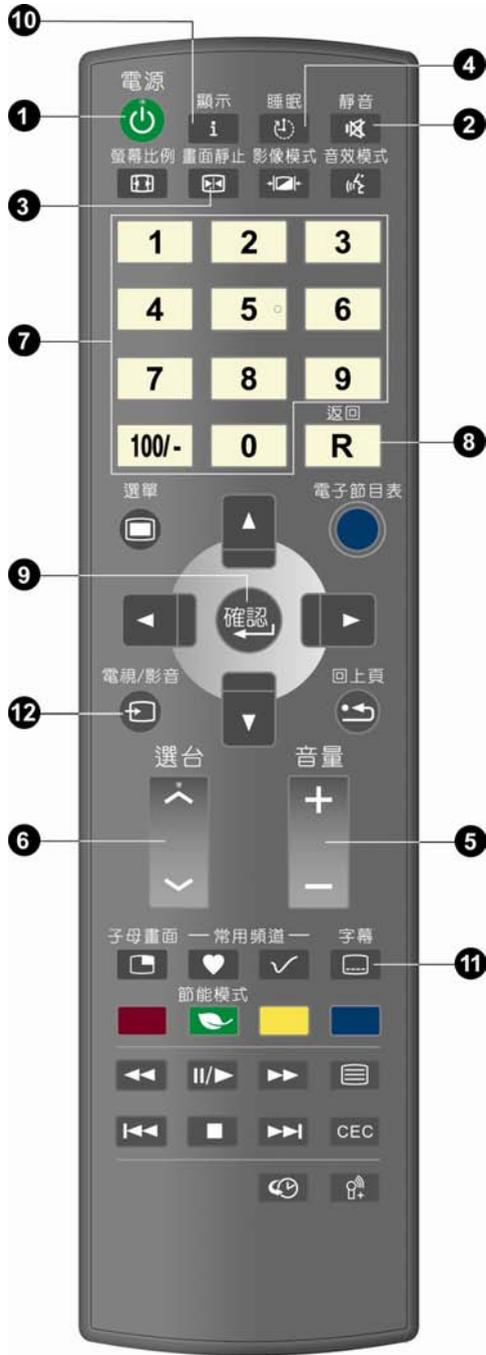


### One-Touch Button

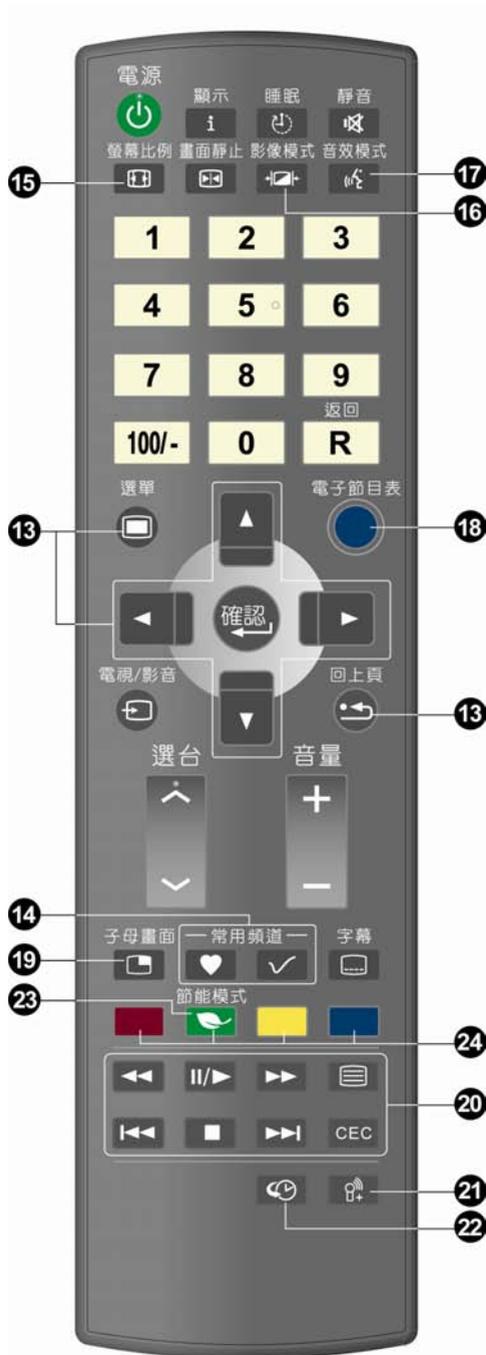
Touch each button on the lower right end of the front outer frame for corresponding operation.



Button	Functions
SOURCE	<p>Signal Input Source Selection</p> <p>Press the SOURCE button on the right side of the LCD Display, then you may select one of the following modes in order of: TV/Digital TV/Video/Video S/Component/HDMI 1/HDMI 2/HDMI 3/HDMI 4/HDMI 5/Computer/U-Link Mode.</p> <p>※ Under the MENU mode, you can use this button for the function of ENTER button.</p>
MENU	<p>Adjustment Menu</p> <p>Press the Menu button on the right side of the Display to show the menu to adjust the settings of the LED Multimedia LCD Display. To show the screen control window of the LED Multimedia LCD Display, please press the MENU button. Press the Adjust ▲▼◀▶ buttons to adjust the content of each quick menu item.</p>
CH v / ^ (FUNCTION ▼ / ▲)	<p>Channel Selection (Only under the TV mode)</p> <p>Use the CHANNEL v / ^ button on the LCD panel to select a channel. (Only under the TV mode. This product requires an optional LCD TV box to enable the TV function.)</p> <p>※ Under the MENU mode, the function works as Up and Down buttons of the selection function.</p>
VOL - / + (ADJUST ◀ / ▶)	<p>Volume Adjustment</p> <p>Use the VOLUME - / + button on the right side of the Display to adjust the volume of the LED Multimedia LCD Display.</p> <p>※ Under the MENU mode, the function works as Left and Right buttons of the adjustment function.</p>



1. **POWER**  
Turn on the LED Multimedia LCD Display or enter STANDBY mode.
2. **MUTE**  
Press to toggle audio on and off. You can also press volume +/- to restore the previous volume level.
3. **FREEZE**  
Press to freeze the picture and press again to restore live viewing.
4. **SLEEP**  
Press repeatedly to select one of the available sleep OFF/30/60/90/120/150/180 minutes modes.
5. **Volume +/-**  
Press to adjust the volume.
6. **Channel ^ v**  
Press to select the channels.
7. **0 ~ 9, 100/- Numeric key**  
Using the numeric buttons (0 to 9 and 100/-) to select from CH 02 to CH 125. When the channel selected exceeds CH 125, the window will stay on the channel set and won't be switched.
8. **RETURN**  
Return to the previous channel.
9. **ENTER**  
When entering CH 1 to CH 9, you may just enter number 1 to 9 and wait for a few seconds for auto changing; or you may simply press number 1 to 9 then the ENTER key to switch to the channel directly.
10. **Display**  
Press the DISPLAY button to display the current mode. Include: Main Screen/Signal Source/Signal Format.
11. **C.C.: Close caption**  
This allows you to enable the caption function. (This function only applies to the NTSC system used in North America).
12. **TV/VIDEO**  
For the signal source of main screen.
  1. You can use the "TV/VIDEO" button on the remote control to switch the signal source of main screen  
  
The main screen is switched in order of: TV/Digital TV/Video/Video S/Component/HDMI 1/HDMI 2 /HDMI 3/HDMI 4/HDMI 5/Computer/U-Link Mode.
  2. The selected signal source will be displayed on the screen.
  3. The special items to the OSD MENU under each display mode can be selected.



**13. <MENU> and Adjustment button ▲▼◀▶ and Back**

This allows you to activate the menu of the LED Multimedia LCD Display. Press again to exit the menu. Use the ▲▼◀▶ button to select the menu item and adjust its setting. Press the “◀” button to return to the last page.

**14. Favorite Channels**

To display the “Favorite Channels” in order of your previous setup.

**Favorite channel editing button**

For adding, deleting, or changing channels

\* Refer to Page 15 for more information about operation.

**15. ASPECT**

The ASPECT modes include:  
16:9/Zoom 1/Zoom 2/Game/4:3.



**16. PICTURE**

For advanced PICTURE setup, including:  
Vivid/Standard/Movie/Game/Custom.

**17. MTS**

The MTS modes include: STEREO/SAP/MONO.  
※In digital TV, the modes include: Channel 1/Channel 2.

**18. EPG**

To display EPG menu  
(This function is only available for models with digital TV function)

**19. PIP (Picture in picture)**

Display PIP Function Menu.  
(Only for PIP function supported devices)

**20. CEC (Consumer Electronics Control)**

This function can only be used with CEC-enabled devices. Connected CEC-enabled devices can be controlled by one remote controller through the HDMI connection. We can not guarantee 100% compatibility with all CEC-enabled devices.

**21. MIC**

(Only for MIC functions supported devices).

**22. PVR (Personal Video Recording)**

To record real-time while watching the TV.  
\* Refer to Page 34 for more information about operation.

**23. Energy Saving**

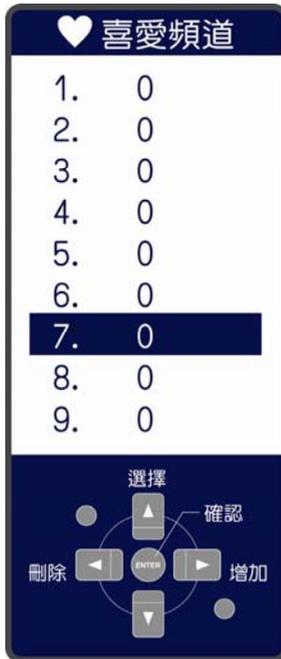
Power Saving function. The screen brightness will decrease dramatically on this mode. It includes: On/Off.

**24. U-Link Function Button**

※Refer to Page 31 for more information about operation.

**Favorite Channels (Only under the Analog/Digital TV mode):**

Press the favorite channel editing button  on the remote control and open the favorite channel list:



Remote Control

The operating method is as follows:

**Add a Channel:**

1. Select the TV channel to be added first.
2. Press the "Favorites Channel" editing button  on the remote control and the screen will display the favorite channel list (as shown in the figure above).
3. Press the   buttons on the remote control and move to the position to be remembered.
4. Press  button to finish favorite channel adding.
5. The position will display the channel that you previously set. The position not set will display "0".

**Remove a Channel:**

1. Press the "Favorites Channel" editing button  on the remote control and the screen will display the favorite channel list (as shown in the figure above).
2. Press the   buttons on the remote control and move to the position to be removed.
3. Press  button to finish favorite channel removing.

**Watch Favorite Channels:**

1. Press the "Favorites Channel" channel button  on the remote control to watch all the channels (9 channels) in the favorite channel list in sequence (cycle).

### CEC Operating Instruction

CEC function allows you to use your CHIMEI remote control to simultaneously control the Multimedia Display and any compatible CEC-enabled consumer electronic device which is connected to the Multimedia Display via HDMI. Connected CEC-enabled devices can be controlled by one remote controller through the HDMI connection. We can not guarantee 100% compatibility with all CEC-enabled devices.



Operating Instructions are as follows:

1. Please connect CEC-enabled device to your Multimedia Display through the HDMI interface.
2. Press the **CEC** button on the remote control to activate CEC function. The OSD on the Multimedia Display will show the current

connecting status. Press the **確認** button to choose the device and press the **ENTER** **CEC** button to start the CEC function.

※You can activate the CEC function by turning the CEC function on.

On the other hand, Turn CEC off to disable CEC function.

※If you turn off the Multimedia Display with CEC function enabled, all the CEC consumer electronic devices will also be powered off.

3. Description of the functions of the buttons on the remote control:



Choose Your Language

Move Upward  
Move Left/ENTER/Move Right  
Move Downward

Choose the Caption

Rewind/Play (Pause)/Fast Forward/Menu  
Last Chapter/Stop/Next Chapter/CEC

1. You can use the “**TV/VIDEO**” button on the remote control to select the signal source. Once the signal source is detected, the selected system mode will appear in the upper right corner of the screen.
2. After the system mode is selected, press the MENU button to perform the following functions:



### PICTURE

According to the type of TV program you are watching, it provides more picture modes and functions for adjusting color and brightness.

---



### ADVANCE

According to the type of program you are watching, it provides advanced setup for adjusting color and brightness.

---



### AUDIO

Provide more audio selections. You can also set the audio environment of the LED Multimedia LCD Display.

---



### TV (for use with TV mode)

Set up your favorite channels.

---



### GEOMETRY

Under TV Mode/Component Video Mode.

---



### SETUP

Set the screen display language, menu background and other functions.

---

**PICTURE**

1. Press the menu  button on the remote control to show the main menu.
2. Use the ▲▼ buttons to select the main item to be adjusted, "PICTURE".  
Use the ► button to move to the sub item to be adjusted.
3. Use the ▲▼ buttons on the remote control to select the item to be adjusted.  
Press the ENTER button to enter the item to be adjusted.
4. Use the ◀▶ buttons on the remote control to adjust the value of the item.
5. Press the menu button  to exit the screen.



Menu	Descriptions
Contrast	Press the ◀▶ buttons to increase or decrease the picture contrast.
Brightness	Press the ◀▶ buttons to make the picture brighter or darker.
Saturation	Press the ◀▶ buttons to adjust color saturation. ※This function is not available in PC mode.
Hue	Press the ◀▶ buttons to change the hue to make it redder or greener. ※This function is not available in PC mode.
Sharpness	Press the ◀▶ buttons to make the picture sharper or softer.
BackLight	Press the ◀▶ buttons to adjust the brightness of BackLight. (The less bright the BackLight, the more energy saved) ※When Dynamic Contrast turns on, this option will be disabled.
Reset	Press the ◀▶ buttons to restore all parameters of this menu to default settings.

**ADVANCE**

1. Press the menu  button on the remote control to show the main menu.
2. Use the ▲▼ buttons to select the main item to be adjusted, "ADVANCE".  
Use the ► button to move to the sub menu to be adjusted.
3. Use the ▲▼ buttons on the remote control to select the item to be adjusted.  
Press the ENTER button to enter the item to be adjusted.
4. Use the ◀▶ buttons on the remote control to adjust the value of the item.
5. Press the menu button  to exit the screen.



Menu	Descriptions
Color Temp	Press the ◀▶ buttons to adjust the color temperature: Cool/Normal/Warm/Custom. ※Custom Mode: Red Gain/Green Gain/Blue Gain/Red Compensation/Green Compensation/Blue Compensation.
Super Contrast	Press the ◀▶ buttons to adjust the contrast of picture: Off/Low/Middle/High/Custom. ※Custom Mode: Shadow Compensation Gain/Shadow Gain Enhancement/Highlight Compensation Enhancement/Highlight Gain Enhancement/Gamma Compensation Gain/Gamma Gain Enhancement.
Super Color	Press the ◀▶ buttons to adjust color tone: Off/Natural/Vivid/Movie/Custom. ※Custom Mode: 7 Colors adjustment.
Gamma	Press the ◀▶ buttons to adjust the gray scale curve on the picture: HDTV/Normal/Game/Custom 1/Custom 2. ※Custom Mode: Shadow Detail/Highlight Detail/Gamma Gain/HDMI RGB Range (for HDMI signal only).
Dynamic Contrast	Press ◀▶ buttons to adjust the dynamic contrast of the screen: Off/Light sensing 1/Light sensing 2/Custom. Light sensing 1: The system will automatically adjust the backlight brightness as ambient light changes. The priority setting of screen image is adjusted to be brighter. Light sensing 2: The system will automatically adjust the backlight brightness as ambient light changes. The priority setting of screen image is adjusted to be darker, which delivers higher energy efficiency. ※Opening Super Contrast function may cause slight brightness modulation temporarily at running high frequency pattern. It is a normal phenomenon. ※Custom Mode: Power-saving Performance/Maximum Brightness/Minimum Brightness. ※You can't adjust the brightness of the backlight when Dynamic Contrast is set on "Light sensing 1/ Light sensing 2" or "Custom" mode.
Reset	Press the ◀▶ buttons to restore all parameters of this menu to default settings.

**AUDIO**

1. Press the menu  button on the remote control to show the main menu.
2. Use the ▲▼ buttons to select the main item to be adjusted, "AUDIO".  
Use the ► button to confirm the main item to be adjusted.
3. Use the ▲▼ buttons on the remote control to select the item to be adjusted.  
Press the ENTER button to enter the item to be adjusted.
4. Use the ◀▶ buttons on the remote control to adjust the value of the item.
5. Press the menu button  to exit the screen.



Menu	Descriptions
Balance	Press the ◀▶ buttons to adjust the balance between left and right speakers.
Bass	Press the ◀▶ buttons to adjust the audio bass level.
Treble	Press the ◀▶ buttons to adjust the audio treble level.
SRS TruSurround XT (Surround Mode)	Press the ◀▶ buttons to adjust the SRS TruSurround XT: ON/OFF. (When SRS is on, the bass/treble adjustment function will be disabled)
Wireless earphones	Press ◀▶ buttons to enable or disable the Wireless Earphone function. Only available for supported models. ※ Wireless Earphones are optional. ※ Please turn off the power before plug or unplug the Wireless Earphone Transmitter (Transmitting Card). When plugged into the machine, the card can be activated only if the Wireless Earphone function is enabled. This function will be automatically set to Off when the card is unplugged.
Reset	Press the ◀▶ buttons to restore all parameters of this menu to default settings.

**TV (for TV)**

1. Press the menu  button on the remote control to show the main menu.
2. Use the ▲▼ buttons to select the main item to be adjusted, "TV".  
Use the ► button to confirm the sub item to be adjusted.
3. Use the ▲▼ buttons on the remote control to select the item to be adjusted.  
Press the ENTER button to enter the item to be adjusted.
4. Use the ◀▶ buttons on the remote control to adjust the value of the item.
5. Press the menu button  to exit the screen.



Menu	Descriptions
Channel Scan	In the Channel Scan option, press the Enter button to execute the auto channel scan. The auto channel scan must be performed for the first installation.
CATV/AIR	CATV / AIR Press the ◀▶ buttons on the remote control to select the TV signal (antenna or cable). AIR: For antenna users, please select this item. CATV: For cable users, please select this item.
Channel Add/Del	Press ▲▼ buttons to select the channel to be added/deleted.
Dynamic Freq. Shift	Press the ◀▶ buttons to set it on or off.
Fine Tune (MHZ)	Press the ◀▶ buttons to fine tune the frequency of the channel.

- \* Only under the Analog TV mode. This product requires an optional LCD TV box to enable the TV function.
- \* Please refer to the instructions on the Digital TV option (Page 24).

**GEOMETRY (for VGA)**

1. Press the menu  button on the remote control to show the main menu.
2. Use the   buttons to select the main item to be adjusted, "GEOMETRY".  
Use the  button to confirm the main item to be adjusted.
3. Use the   buttons on the remote control to select the item to be adjusted.  
Press the ENTER button to enter the item to be adjusted.
4. Use the   buttons on the remote control to adjust the value of the item.
5. Press the menu button  to exit the screen.



Menu	Descriptions
Auto	Press the   buttons to automatically adjust the focus, sharpness, horizontal and vertical positions.
H Position	Press the   buttons to adjust the screen location horizontally. If the horizontal position is still misplaced after automatic adjustment, you can use this function to fine tune.
V Position	Press the   buttons to adjust the screen location vertically. If the vertical position is still misplaced after automatic adjustment, you can use this function to fine tune.
Phase	Press the   buttons to manually adjust the focus. If automatic adjustment does not deliver ideal focus, you can use this function to fine tune.
Clock	Press the   buttons to manually adjust the sharpness. If automatic adjustment does not deliver ideal focus and sharpness, you can use this function to fine tune.
Power-Saving Mode	Press the   buttons to set the time interval to automatically power off the TV: OFF/1 minute/10 minutes. You can set the time interval for automatic power-off after the computer video output stops. ※ If turned off under Power-Saving Mode, it will power on automatically when the computer video signal restores.
Reset	Press the   buttons to restore all parameters of this menu to default settings.

- ※ Due to the different characteristics of computer video adapters, sometimes automatic adjustment cannot deliver optimal sharpness. You can use this function to fine tune the phase or clock manually.
- ※ With different combinations of wires and audio/video devices, if component high frequency signal pictures are unclear, the phase can be adjusted manually.

**SETUP**

1. Press the menu  button on the remote control to show the main menu.
2. Use the ▲▼ buttons to select the main item to be adjusted, "SETUP".  
Use the ► button to confirm the main item to be adjusted.
3. Use the ▲▼ buttons on the remote control to select the item to be adjusted.  
Press the ENTER button to enter the item to be adjusted.
4. Use the ◀▶ buttons on the remote control to adjust the value of the item.
5. Press the menu button  to exit the screen.

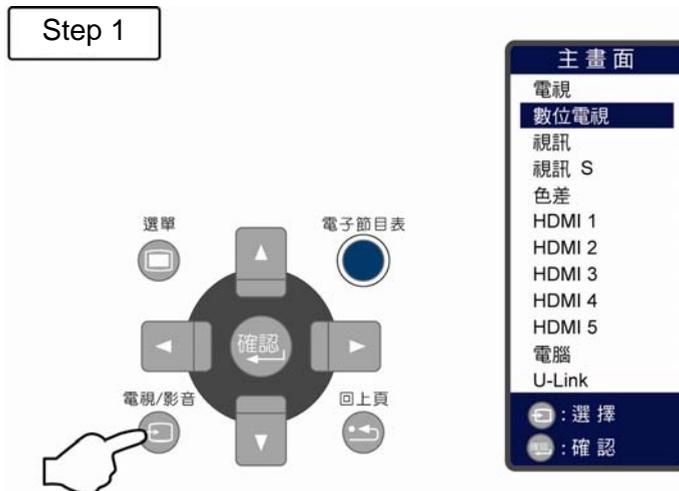


Menu	Descriptions
Language	Press the ◀▶ buttons to select language: Traditional Chinese/English.
OSD Time out	Press the ◀▶ buttons to choose OSD display time: 5 seconds / 10 seconds / 15 seconds / 20 seconds.
OSD Background	Press the ◀▶ buttons to adjust the OSD background: Opaque/Half-transparent.
Noise Reduction	Press the ◀▶ buttons to adjust the level of the noise removal.
OverScan	Press the ◀▶ buttons to adjust the scope of OverScan: Off/Small/Standard/Big. When watching TV, you can adjust the picture's black edge by adjusting the OverScan function.
Double Frame Rate	Press the ◀▶ button to adjust the double frame rate level: Off/Low/Normal/High. Since videos may have different characteristics, the parameters can be adjusted to obtain a smooth picture. For example, if you feel the picture is vibrating, you are advised to increase the parameter; if you feel the picture is delayed, decrease the parameter accordingly.
Demo Mode	Press the ◀▶ button to select demo mode: Off/On. The green frame on the left is the image running at 120Hz while the right is the original picture.
CHIMEI LOGO Switch	Press ◀▶ buttons to select the lighting status of CHIMEI LOGO: Off/On. ON: As the power turns on, the light of CHIMEI LOGO will blink and remain activated afterwards. It will not turn off automatically. OFF: As the power turns on, the light of CHIMEI LOGO will blink and remain activated afterwards for one minute. It will turn off automatically after 1 minute.
Reset	Press the ◀▶ buttons to restore all parameters of this menu to default settings: No/Yes.

## Digital TV Instructions on First Installation

Because there is no program data stored in a TV Box, before starting using it, you should make the TV box scan all of the channel signals available and store the signals in the TV Box in advance by connecting the antenna. User can't really receive the channels and programs of digital signals unless he or she completes this operation. This is an easy process. Please pick up the remote control and follow the following steps:

1. Press the "TV/Video" button on the remote control or the "Input Source" button on the control panel of the LED Multimedia LCD Display to select the "Digital TV" mode.
2. When "Please press the ENTER button to start automatic channel scan" appears on the screen, please press the "ENTER"  button on the remote control to initiate automatic channel scan. (During the auto channel scan, it will take a few minutes to scan available channels)
3. After the auto channel scan is completed, you may start watching digital TV. Press the <CH>  button on the remote control to select a channel.
4. After channel scan, the system will display channel 1 directly.

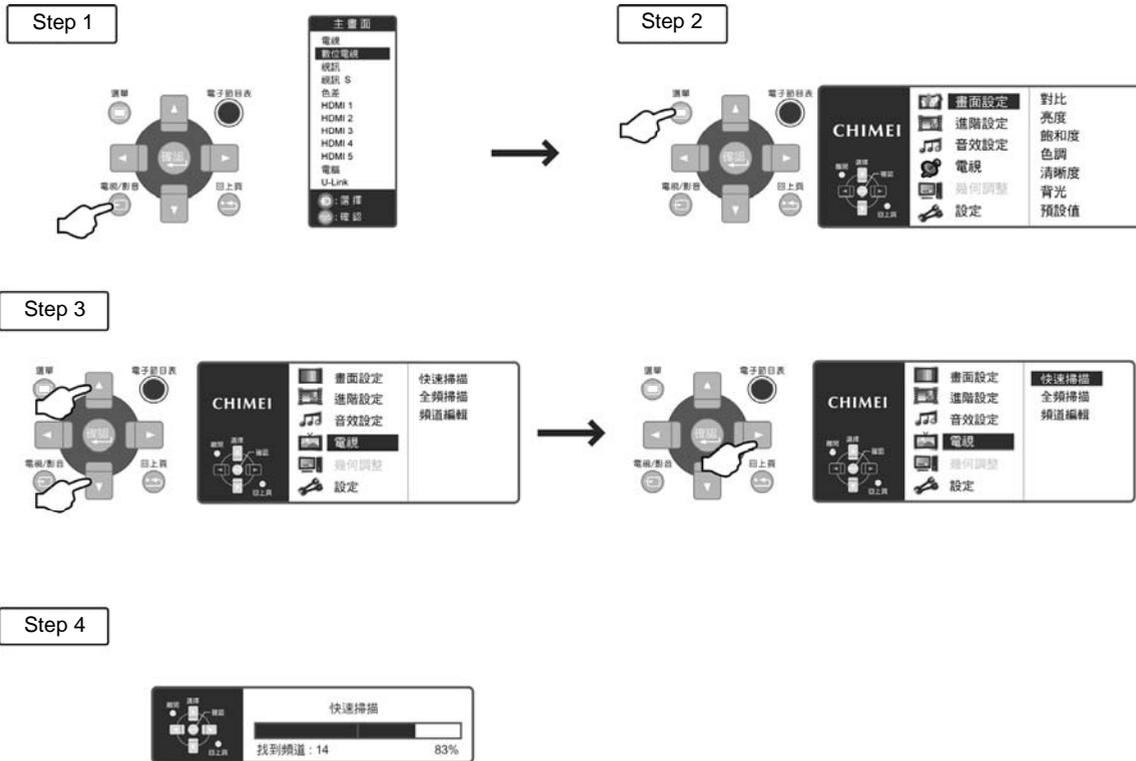


Step 2

請按確認鍵執行自動掃描

### Manual Scan Procedures

1. Press the "TV/Video"  button on the remote control or the "Input Source" button on the control panel of the LED Multimedia LCD Display to select the Digital TV mode.
2. Press the "Menu"  button to open the menu screen.
3. Press the   buttons to choose "TV" submenu, then press the  button and move to the right items, and finally press the "ENTER"  button to confirm your selection.
4. Open the digital TV main menu, which contains 3 major functions: "Quick Scan", "Full Scan" and "Channel Editing", each of which has its own submenu. Please refer to the list below or refer to the later sections for the option you need to adjust and its description.



<b>Menu</b>	<b>Display Description</b>
QuickScan	The range of digital program channel scan is 533 MHz ~ 599 MHz (bandwidth 6 MHz) in which quick scan will be done. The number of channels scanned will depend on the signal strength and reception.
Full Scan	The range of digital program channel scan is 473 MHz ~ 803 MHz (bandwidth 6 MHz), by which Scan All will be done. The number of channels scanned will depend on the signal strength and reception.
Channel Editing	Press the ▲▼ buttons to adjust the position of the channels.

**Note 1: Only under the TV mode. This product requires an optional LCD TV box to enable the TV function.**

**Note 2: The digital TV supports SD-normal signal channel and HD-high definition signal channel.**

**Note 3: When the device is restarted in the digital TV mode or switched to digital TV from other screens, the remote control will temporarily stop for about 3 seconds because the system is downloading program information.**

## QuickScan



1. Press the   buttons on the remote control under the main menu to choose the “Quick Scan” option.

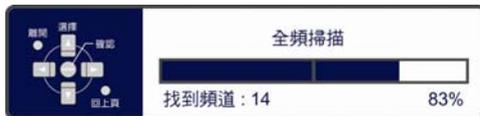


2. Press “ENTER”  button on the remote control to bring up the figure on the left and enter the “Quick Scan” function. Now, the device will scan channels quickly at the channel range of 533 MHz ~ 599 MHz (bandwidth 6 MHz).

## 全頻掃描



1. Press the   buttons on the remote control under the main menu to choose the “Full Scan” option.



2. Press “ENTER”  button on the remote control to bring up the figure on the left and enter the “Full Scan” function. Now, the device will scan channels quickly at the channel range of 473 MHz ~ 803 MHz (bandwidth 6 MHz).

## Channel Editing



1. Press the   buttons on the remote control under the main menu to choose the “Channel Editing” option. Press the  button to enter the channel editing mode and bring up the channel-editing OSD on the left.
2. Press the   buttons on the remote control to choose the channel position to be adjusted; press the  button and the present channel number will be displayed on the column to the right.
3. Then press the   buttons to choose the channel number you want the selected channel to set to (several pages to choose). “Current Channel” is the channel number you just select, while “New Channel” means the repositioned channel number. Press the  button to confirm your change.
4. Press the  button to exit the channel editing screen and return to digital TV main menu. Press the  button to go back to the original screen. Then, the newly set channel is available.

## Electronic Program Guide

EPG functions as the timetable of the programs. Please use the “EPG”  button on the remote control to start the EPG. With EPG, you can find the time for the programs being aired now and being aired later.

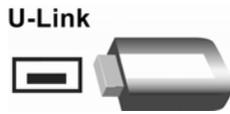


1. Press the “EPG”  button to see the digital program table guide, which lists all channels, present program and the next program.
2. Press the  button to see the digital TV program schedule of the selected channel of that day.
3. Press the  button to browse the program schedule, or you can press the  button on the remote control to check the program schedule of the whole week. (The time period of the program content depends on the actual program schedule sent by the TV channel).
4. If you want to exit the EPG, just press the “EPG”  button again.

※Only under the Digital TV mode. This product requires an optional LCD TV box to enable the TV function.

## U-Link Operating Instructions

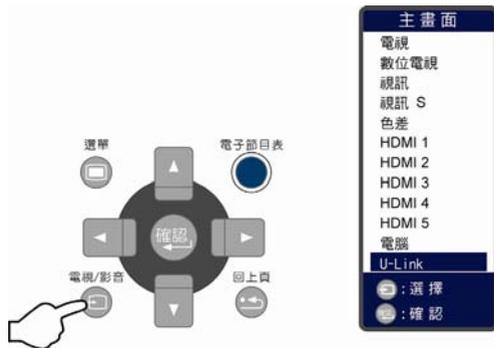
1.



Portable memory device

1. Turn on the power of the Multimedia LCD Display, insert the portable memory device after the screen is on. It will take about 15 seconds for detection.  
 ※U-Link supports one memory card only.

2.



2. When your USB storage device is plugged in U-Link, please press the “TV/Video” button on the remote control, or the “Input Source” button on the control panel of the Multimedia LCD Display and select “U-Link” mode on the menu.

※ After entering U-link mode, if you want to remove your USB storage device when playing the



photos, please press the buttons on the remote control, move the cursor to the “Upper Layer”, and then press the “ENTER”

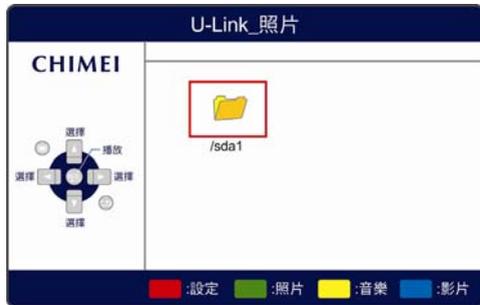


button to return to the /sda1 directory. The USB storage device can now be safely removed.

- ※ As there are a wide variety of portable memory devices whose electrostatic resistance and overcurrent protection functions vary depending on the manufacturer, the portable memory device shall be removed from the U-link of the Multimedia LCD Display if it is not used for a long time as far as possible.
- ※ If the USB storage device is not properly used, it may lead to scrambled screen display. You can remove the USB device and restart the Multimedia LCD Display to restore it to normal condition.

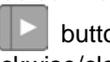
※ For details about the supported signals of U-Link, refer to the specification pages of this User Manual.

### U-Link Photos



1. Press the green button on the lower part of the remote control to select "Photos", and press the "ENTER"  button to read the directory.  
 ※ If you press the button one more time, it will activate "power-saving mode". Press again to deactivate the "power-saving mode".

2. If there are several photos in the same directory, you can choose any photo and press the "ENTER"  button. All the photos in the same directory will then be shown alphabetically like a slide show.

3. If you press any of the  buttons in the slide show mode, a navigational guide will appear on the lower right side of the screen. Press the  button to pause the slide show. Press the  buttons to select the previous/next photo. Press the  buttons to rotate the photo counterclockwise/clockwise.  
 ※ The editing setting of the counterclockwise-rotated/clockwise-rotated pictures only exists on the screen, which will not be stored in your USB storage device.

Press the "Menu"  button to enter screen setting and advanced setting (see page 18 and 19).

Press the "Exit"  button to go back to the previous page.

4. Press the red button to enter <SETUP>, then you can set the interval between each photo and whether or not to repeat the playing sequence.

Photo Playing Interval: 1 second ~ 10 seconds  
 Play Continuously: Off/On

### U-Link Music



1. Press the yellow button on the lower part of the remote control to select "Music," and press the "ENTER"  button to read the directory.

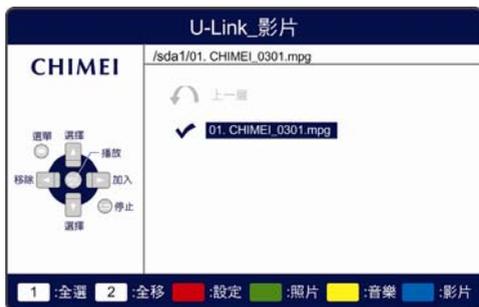
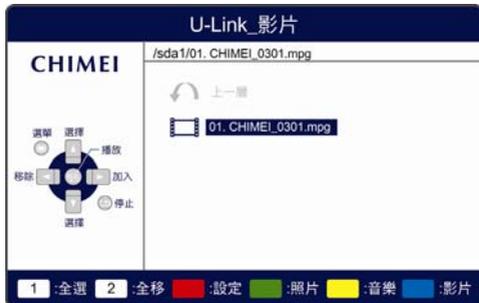
2. Please press the  button to add the music file to your playlist, or press the  button to remove the music file from the playlist according to the navigational guide.

3. Press the  button to start playing music. Press again to pause playing.

4. Press the red button to enter <SETUP>, then you can set the settings on "Repeatedly Play Mode", "Randomly Play Mode" and "Photo + Music Mode".

Play Continuously: Off/One Song/All Songs  
 Randomly Play Mode: Off/On  
 Photo + Music: Off/On

### U-Link Video



1. Press the blue button on the lower part of the remote control to select "Videos", and press the "ENTER"  button to read the directory.

2. Please press the  button to add the music file to your playlist, or press the  button to remove the music file from the playlist according to the navigational guide. Press the  button to start playing.

3. If you press any of the      buttons while the video is playing, a navigational guide will appear on the lower right side of the screen. Press the  button to pause the video. Press the  button to select the previous/next chapter. Press the   button to fast rewind or fast forward the video.

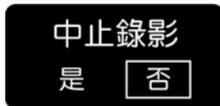
4. As you stop playing, press the red button to enter <SETUP>, then you can set whether or not to play the video continually. Continually Play: Off/On.

### Descriptions of U-Link Personal Video Recording (PVR)

1. Please press the “TV/Video” button on the remote control or the “Input Source” button on the control panel of the LED Multimedia LCD Display to select the “Digital TV” mode.  
 ※U-Link Personal Video Recording is only available in “Digital TV” mode.



2. Press the  button on the remote control to start recording, and the message “Recording” will be displayed in the upper left corner of the screen, indicating the screen is being recorded in the portable device.  
 ※Switching to another channel or to other functions is not available in the midst of video recording; you must abort the recording before performing other operations.
3. To stop recording, press the  button on the remote control, and press the   buttons to select from “Yes” or “No” in the displayed message “Abort Video Recording?”



Select “Yes” and press the  button to abort recording.

**Notice:**

1. If the portable device runs out of space, the message “Insufficient Hard Drive Space” will be displayed on the screen.
2. The recording time depends on the content of programs and the capacity of portable devices. (The maximum size of a single file for each saved program is 2GB, and the excess will be separately saved in another file.)
3. If there is no portable device inserted, the message “No Portable Device Detected” will be displayed on the screen when you press the recording button.

### How to Play Video:

1. Follow the same way of playing U-Link videos to play the recorded videos as described in P.33.
2. The recorded file will be saved in usbrecord folder in the directory of portable device and titled “station name\_date\_time” as shown in the following figure.



3. The playback of recorded files is only available on this LED Multimedia LCD Display, while its playback on PC is not supported.

## Other Information Troubleshooting

※ Only under the TV mode. This product requires an optional LCD TV box to enable the TV function.

The following table contains the common problems and the solutions to these problems. Please check this list before you contact technicians.

Problems	Reasons	Solutions
No picture	<ol style="list-style-type: none"> <li>1. Did you connect the power cord?</li> <li>2. Did you turn on the power?</li> <li>3. Is the signal cable connected correctly?</li> <li>4. Is the screen in energy-saving mode?</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect power cord correctly.</li> <li>2. Turn on power.</li> <li>3. Connect signal cable correctly.</li> <li>4. Press any button on the computer.</li> </ol>
Abnormal colors	<ol style="list-style-type: none"> <li>1. Is the signal cable connected correctly?</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect signal cable correctly.</li> </ol>
Twisted picture	<ol style="list-style-type: none"> <li>1. Is the signal cable connected correctly?</li> <li>2. Is signal input over the maximum of frequency range?</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect signal cable correctly.</li> <li>2. Please use the signal within the frequency range.</li> </ol>
Picture too dark	<ol style="list-style-type: none"> <li>1. Are brightness and contrast set at the lowest level?</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust brightness and contrast.</li> </ol>
Audio only, no images	<ol style="list-style-type: none"> <li>1. Is input signal connected correctly?</li> <li>2. Is the TV signal too weak?</li> </ol>	<ol style="list-style-type: none"> <li>1. Please check if input signal is connected correctly.</li> <li>2. Please check if signal is connected correctly.</li> <li>3. The TV-RF signal needs to be over 50 dB.</li> </ol>
Picture only, no audio	<ol style="list-style-type: none"> <li>1. Is the signal cable connected correctly?</li> <li>2. Is volume at the minimum level?</li> <li>3. Is audio signal cable not connected?</li> <li>4. Is the TV signal too weak?</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect signal cable correctly.</li> <li>2. Adjust volume to proper level.</li> <li>3. Connect audio signal cable correctly.</li> <li>4. The TV-RF signal needs to be over 50 dB.</li> </ol>
Cannot use remote control	<ol style="list-style-type: none"> <li>1. Is the battery dead?</li> <li>2. Is there any disturbance from static or thunder?</li> </ol>	<ol style="list-style-type: none"> <li>1. Please change battery.</li> <li>2. Turn off the power and wait for 10 seconds; and then restart the power.</li> </ol>

The following table contains common problems and solutions to these problems.

Problems	Possible solutions
Can't receive enough channels with the antenna.	Check the cable connection. Make sure it is connected firmly. Please use multi-directional outdoor antenna. (If your TV is subject to the influence of nearby mountains or buildings) Please use the automatic scanning function to increase the number of channels not included in memory.
No colors	Adjust the picture setting or advanced setting on the menu screen. Check the connection of antenna/signal cable.
Blinking picture accompanied by ghost image	Check the connection of antenna/signal cable. Check if channel is in play mode. Press signal source and change input mode.
Broken lines or segments	Adjust antenna. Keep the TV away from noise sources: Such as automobiles, neon lights, and hair dryers.
Certain TV channels are blocked (Hope to acquire some channels)	Please use the automatic scanning function to increase the number of channels not included in memory.
Overlapping images or ghost images	Please use multi-directional outdoor antenna. (If your TV is subject to the influence of nearby mountains or buildings)
Cannot use a function	If the item you choose turns gray, that item cannot be selected.

If you have further questions regarding LED Multimedia LCD Display after reading the above descriptions, please contact your local distributor's "Customer Service Centre".

	Model	TL-42Z8000D	TL-46Z8000D
Display panel	Screen Size	930(H)×523(V) (42.02" diagonal)	1018.08(H)×572.67(V) (46" diagonal)
	Aspect Ratio	Widescreen 16:9	
	Max. Of Pixels	1920(H)×1080(V)	
Side. I/O input and output	Earphone Output	3.5mm Jack ×1	
	AV/SV Input	S-Video(4 pin Dim) + Audio-R/L(RCA) X1 AV Composite (RCA) + Audio-R/L(RCA) X1	
	SPDIF Output	SPDIF ×1	
	AV Output	AV Composite (RCA) + Audio-R/L (RCA) ×1	
	Component Input	YPbPr (RCA) + Audio-R/L (RCA) ×1	
	Wireless Earphones Out	Wireless Earphone Transmitter Socket x 1 ※Only Available for models with this function ※Optional	
	U-Link Input	Memory device ×2	
	HDMI Input	HDMI ×1	
Rear I/O input	HDMI Input	HDMI X4	
	VGA Input	RGB(D-sub 15pin) + PC Audio(3.5mm Jack) X1	
Compatibility	System	Audio system: Stereo/Mono/SAP	
	Video Scanning format	●480i /480p@60Hz ●1080i@60Hz	●720p@60Hz ●1080p@24Hz /60Hz
	PC Support Timing	●640x480@60Hz ●800x600@60Hz ●1920x1080@60Hz (native)	●720x400@70Hz ●1024x768@60Hz
	HDMI←→DVI (PC)	●640x480@60Hz ●1024x768@60Hz	●800x600@60Hz ●1920x1080@60Hz (native)
Power	Input Voltage	AC 110~120V, 1.8A(max),50/60Hz	
	Operation	<180W (max.)	
	Standby	Standard: 1W (AC 110V)	
Energy Saving	Power On	<150W	<165W
Environment	Operating	5 ~ 35°C (41 ~ 95°F)/10% ~ 90% (no condensation)	
	Storage temperature	-20 ~ 60°C (-4 ~ 140°F)/10% ~ 90% (no condensation)	
Other	Built-in speaker	8Ω / 10W (max.)x2	

**Table of U-Link support specifications**

	Play Mode	File Name
U-Link	Photos	※ JPEG <ul style="list-style-type: none"> <li>● Baseline JPEG</li> <li>● 8 bit per component.</li> <li>● Monochrome or color Y:Cb:Cr=4:2:2 or Y:Cb:Cr=4:2:0</li> <li>● DCT-based, non-differential, Huffman-coded</li> <li>● Pictures modified using a PC may not be displayed on TV</li> <li>● Image size limited to 7680 x 4320 pixels</li> </ul>
	Music	※ MPEG1 Layer 3 <ul style="list-style-type: none"> <li>● Support Sample rate (K-samples/sec):32,44.1,48</li> <li>● Support Bit rate: Supported bit rate (Kbits/sec): 32,40,48,56,64,80,96,112,128,160,192,224,256,320</li> </ul>
		※ MPEG2 Layer 3 <ul style="list-style-type: none"> <li>● Support Sample rate (K-samples/sec):22.05,24</li> <li>● Support Bit rate: Supported bit rate (Kbits/sec): 16,24,32,40,48,56.64,80,96,112,128,160</li> </ul>
		※ A maximum 3000 songs on a media device is supported.
Movie	※ MPEG1 (MPG,DAT) / MPEG2 (MPG,VOB,DAT) The maximum supported bit rate is up to 9 Mb/sec. An excessively large file may lead to unstable and lagging status of image and sound.	

- ※ The higher the resolution, the slower the file is opened. (It takes about 2 seconds to open a general 6-million pixel photo).
- ※ Once the photo is edited using the photo editing software, it takes longer to open the photo.
- ※ Incompatibility may occur if a non-FAT32 file system is used.

As there are a wide variety of USB disks in the market, the following brands, capacities, versions and card types of better compatibility are provided for reference.

USB Disk	Brand Name	
USB 1.1	SEITEC 256M	
USB 2.0	A-DATA (C802) 4GB	
	ADATA_C802V_4GB	
	Apacer 4GB	
	Apacer_AH522_8GB	
	Chips Bnk Flash Disk 2G	
	iFlash U1 – 4G	
	Imation Atom 4GB	
	KincMax 2G	
	KINGMAX_U-Driver_2G	
	Kingston_Data Traveler 101_4GB	
	Kingmax 4GB	
	Micro SD HC Transcend 8GB	
	Nexs i_Flash U1 4G	
	PNY_City series_4GB	
	PNY_lovely_4GB	
	PQI_i270_4GB	
	PQI-U230 4G	
	SanDisk BH0623304636B 4GB	
	SanDisk_Cruzer Contour_8GB	
	SEITEC 256M	
	SONY_MICROVAULT_4GB	
	Transcend JetFlash 4GB	
	Transcend JetFlash-V30 2G	
	Transcend JetFlash-V30 4G	
	Transcend JetFlash-V30 8G	
	Transcend_TS8GJFV30	
	Transcend JF130 2GB	
	USB-2GB	
	USB-HD	Toshiba 60GB IDE HDD USB Connection
		Toshiba 100GB SATA HDD USB Connection
		SmartDisk Firefly 5G HD

USB Disk	Brand Name
Transcend Multi-Card Reader M3	Adaptec AUH-4000
	Aten UH-204 4 Port USB 2.0 Hub
	BAFO Bafo BF-4000 USB2.0 4- Port Hub
	Belkin F5U221
	Belkin F5U233-APL
	Belkin F5U234-APL-S
	D-Link DUB-H7 High Speed Hub
	GWC USB2.0 7-Port Hub
	I/O Gear GUH274
	I/O Gear GUH227
	King Ston MMC 2G
	Linksys Linksys ProConnect USB 4-Port Hub
	Olympus XD card 1G
	SanDisk M2 2G
	SanDisk SD 4G
	SONY MS PRO Duo 2G
	Transcend CF 4G
	Toshiba Mini SD 2G
	Toshiba Micro SD 4G
	Transcend SD 2G
USB Hub	Transcend JetFlash 4GB