



Physical screen splitting monitor with two PCs for one monitor



TOV270M/271M/270H Monitor User Manual

(Please read carefully before using the product.)

This product is a screen division monitor that can use two PCs at the same time on one monitor. Especially, it is suitable for physical network separation environment. It is a product that eliminates harmful electromagnetic waves by providing high-definition image quality and power saving function with simple design. In addition, it is designed to be safe, easy to use, saves installation space,
We provide clear image quality.

Techonvision.co.,Ltd

[Safety Precautions]

caution	<p>Failure to observe the safety precautions may result in serious injury or material damage.</p> <p>Please read it carefully and use it properly to protect your safety and prevent damage to property.</p>
----------------	--

- ◆ Do not install in a place with poor ventilation, such as a bookcase or closet.
- ◆ Do not use or store flammable sprays, flammable materials, etc. in close proximity.
- ◆ Do not insert metal objects such as chopsticks, wire, and drill into the monitor vent or A / V jack.
- ◆ Unplug the power plug when you are not using the monitor for a long time.
- ◆ If there is dust or water coming in contact with the pins of the power plug, wipe it off well.
- ◆ Never disassemble, repair or modify the product yourself.
- ◆ Do not use a damaged power cord, plug, or loose outlet.
- ◆ Do not pull on the cord or touch the power plug with wet hands.
- ◆ Connect the power plug to a properly grounded outlet.
- ◆ Please insert the power plug correctly to the inside end so that it does not shake.
- ◆ Do not bend the power cord excessively or stretch it over heavy objects.
- ◆ Do not use multiple outlets or power plugs in one outlet.
- ◆ Place the monitor at a distance from the wall to ensure proper ventilation.
- ◆ If the monitor emits smoke or a strange smell, turn off the power immediately and turn off the plug
Please contact the service center after removing it.
- ◆ Place the product on a monitor or near a hot air balloon.
Make sure the power cord is not in close proximity.
- ◆ Do not install the product in water, rain, splashes, oil, humid places, or vehicles.
- ◆ When cleaning, do not spray water or detergent directly on each part of the product.
- ◆ Continuous use of the product in too close proximity may cause poor vision.
- ◆ Place the monitor on a flat, stable surface and let it slide when you place the product.
- ◆ When cleaning the monitor, unplug the power cord and wipe it with a soft dry cloth.
- ◆ Do not polish by industrial polish, wax, benzene, alcohol, thinner, mosquito repellent, fragrance, lubricant, chemical such as detergent and water.
- ◆ When using a fixed screen for a long time, there may be afterimage or smearing.
- ◆ If you do not use the monitor for a long time, set the power saving mode or the screen saver to the moving movie mode.

Chapter. 2

[Install 1]

1-1 Components

Please make sure that the following components are included when opening the box. If any components are missing, contact your dealer immediately to receive the parts. Please use monitor. Depending on the product, additional accessories (DVI cable, remote control, Composite cable, component cable, HDMI cable, battery) may be enclosed.

		
[Monitor]	[Adapter]	[Power Cable]
		
[DVI Cable]	[HDMI Cable]	[User Manual]

* The above images may look different from the real ones

1-2 Driver and recommended resolution

This monitor is PLUG &PLAY type and does not need special driver. The required drivers are provided by the video card manufacturer within the computer and may be on the CD that comes with the computer. Please refer to the table below for recommended resolutions. For normal monitor operation, the video card must be set to the recommended resolution on Windows. For a detailed description of the video card, refer to the video card owner's manual or the Windows Readme file.

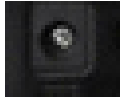





Product Size	Recommended Resolution	Split resolution
23형(16:9)	1920x1080	960x1080
27형(16:9)	1920x1080	960x1080

Product Size	Recommended Resolution	Split resolution
24형(16:9)	1920x1080	960x1080
32형(16:9)	1920x1080	960x1080

[Install 2]

1-3 Cable Connecting

◆ rear view monitor configuration ◆

					
Power Terminal	Sound Terminal	DVI Terminal	HDMI1 Terminal	HDMI2 Terminal	DP Terminal

1. Connect the 220V power outlet to the power input terminal of the adapter with the power cord.
Plug the DC output jack of the adapter into the power input terminal on the back of the monitor.

caution Failure to use the adapter included with this product may result in fire or malfunction.

Do not connect the monitor with the power cord and adapter connected.

caution Connecting the power adapter to the monitor may cause malfunction.
Please connect the adapter and monitor first, then connect the power cord to the adapter.

2. Please connect each cable to the monitor terminal and PC or external device.
After turning on the monitor, press the menu (M) or SELECT button located on the front panel. Select the input signal that matches the terminal.

caution If the connection cable and input signal of the monitor are not set the same, It does not come out.

3. Connect the audio cable to your computer's sound card.
4. Connect the HDMI cable to the HDMI 2 terminal and the DVI cable to the DVI terminal at the same time

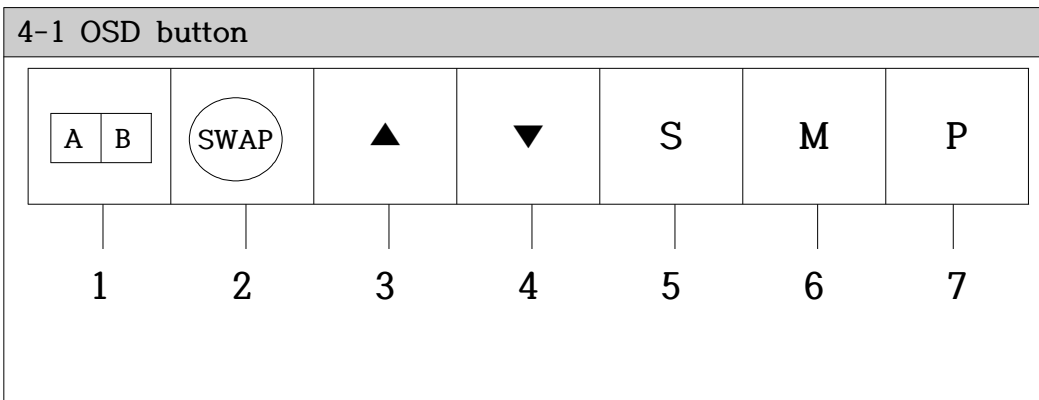
TIP HDMI to DVI or DVI to HDMI cables can be used if you are connected to the situation.

Chapter. 3

[How to fix the problem]

Problem	Resolve problem
Did you connect the monitor for the first time?	Please execute initialization in the product menu after purchasing. Because the graphics cards are all different, it is recommended to make the initial settings.
The color is strange. It appears in black and white.	Please connect the computer connection cable again. Insert the video card of the computer firmly again. Please reboot your computer. Refer to the video card user's guide and set the correct one.
In RGB mode, the screen position It changes or shifts to one side.	Refer to Adjusting the screen to perform horizontal or vertical positioning. Please adjust the resolution or frequency on the video card. Sometimes the screen position may change due to the signal cycle difference of the video card.
After replacing the video card, It's different from the color.	For Windows Me / XP / 2000, go to Control Panel-> Display-> Please try again. Please reconfigure it to match the driver of your video card.
The screen is off and the power indicator It blinks.	The monitor is in Sleep mode. Press any button on the keyboard or move the mouse.
I see spots on the screen.	During use, you may see several pixel spots (red, yellow, white, black) on the screen. This is a phenomenon that can be seen in the nature of the LCD panel. This is independent of the performance of the monitor and is not a malfunction.
Looks like the screen is falling.	Check the signal cable of the monitor and the computer and connect them again. Try auto-tuning.
The screen is not clear.	Make sure the resolution is set to the recommended resolution.
The screen is unstable and trembling. There is a shadow trace on the screen.	Make sure that the resolution frequency of your computer or video card is within the available range on the monitor, and then reset the resolution on your monitor. (See 2Page recommended resolution.)
The screen is too bright. / It's dark.	Try adjusting the brightness or contrast of the screen.
There is a line on the screen and it shakes.	Stop using cordless phones, hair dryers, electric drills, and more.
The touch OSD button does not work.	Turn off the multitap (wall outlet) connected to the adapter, and after 10 to 15 seconds,(Outlet).
I'm curious about our zero-defect policy.	In case of non-defective product, it can be exchanged when one pixel spot occurs. Can be exchanged when four pixel spots occur when non-defect product is not available Please apply for exchange within 10 days after purchase.
The resolution of the split screen is abnormal.	The resolution of the split screen is automatically determined by the monitor. Press the split button on the front of the monitor once to change the resolution.
The full screen resolution is strange.	When changing from split screen to full screen, it may happen that the signal from computer's video card is not transmitted well. In this case, please divide the screen by dividing screen and then switch to full screen mode again.
TIP	If the problem is not resolved, please refer to the community board on the homepage to solve the problem.

[Adjust the Screen]



- 1 Split screen button
It physically splits the screen of the monitor 50:50.
- 2 SWAP button
Switch the monitor screen between PC1 and PC2.
- 3 ▲ button
Used to raise the setting item from the OSD menu.
- 4 ▼ button
Use to lower the setting item in the OSD menu.
- 5 S button
Used to change input signals such as DVI, HDMI, DP.
- 6 M button
Displays the OSD menu window.
- 7 P button
Used to turn the monitor on or off.

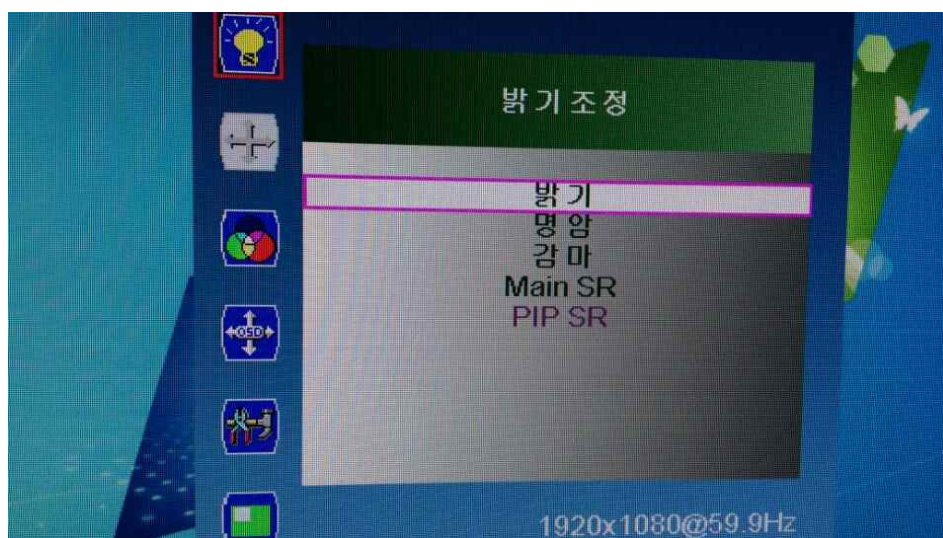
Chapter. 5

[Screen adjustment]

Press the M button to display the OSD menu window. Use the ▲ or ▼ button to move to the desired mode, then press the S button to select the sub menu and adjust it using the ▲ or ▼ button. (Items can be deactivated depending on the input signal.)

4-2 Screen Brightness - Adjust brightness, contrast, gamma, etc.

Selection screen description



- 1) Brightness adjustment Adjust the brightness of the screen.
- 2) Contrast adjustment Adjusts the contrast of the screen.
- 3) Gamma adjustment Select Use Gamma on the screen.
- 4) Main SR
- 5) PIP SR Do not use.

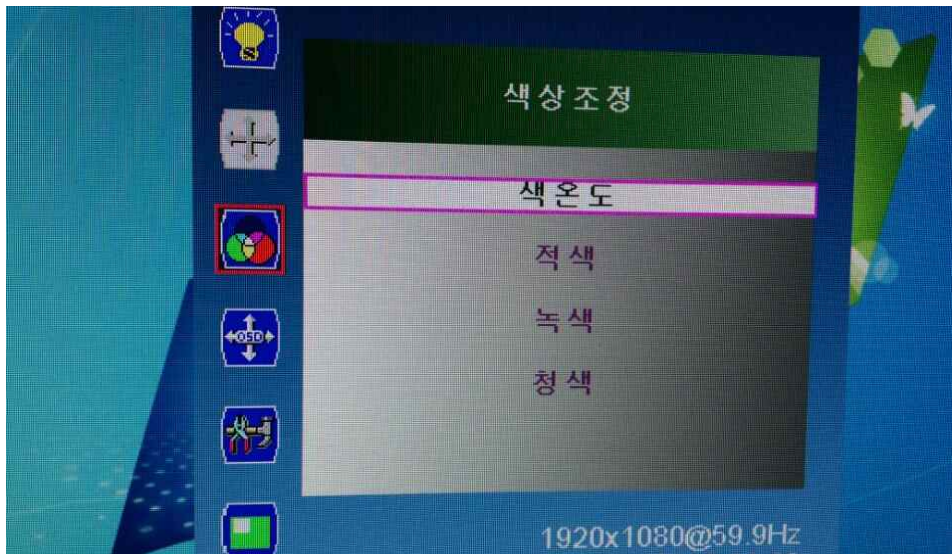
Chapter. 5

[Screen adjustment]

Press the M button to display the OSD menu window. Use the ▲ or ▼ button to move to the desired mode, then press the S button to select the sub menu and adjust it using the ▲ or ▼ button. (Items can be deactivated depending on the input signal.)

4-3 Screen Color adjustment - Adjust color temperature
(5000K ~ 9300K)

Selection screen description



1) Color temperature

The color temperature can be adjusted from 5000K to 9000K.

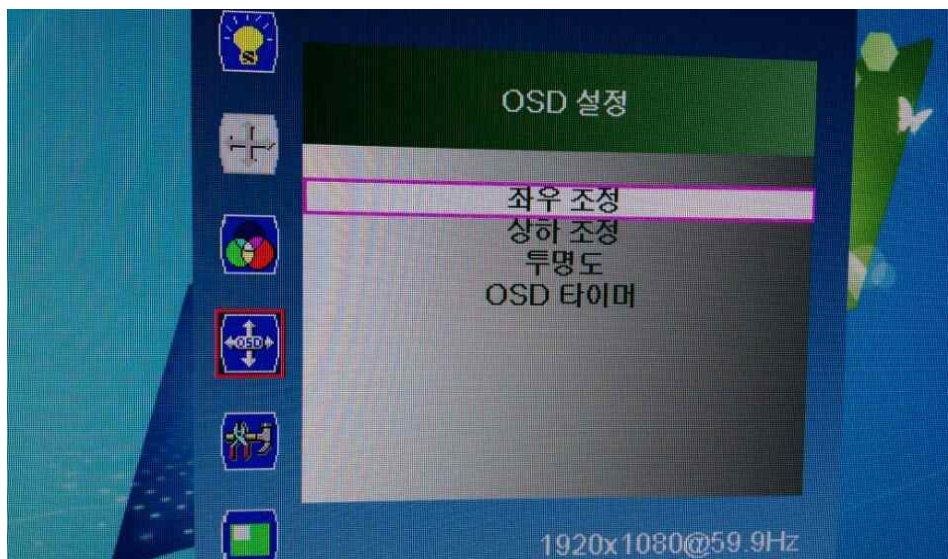
Chapter. 5

[Screen adjustment]

Press the M button to display the OSD menu window. Use the ▲ or ▼ button to move to the desired mode, then press the S button to select the sub menu and adjust it using the ▲ or ▼ button. (Items can be deactivated depending on the input signal.)

4-4 Screen OSD adjustment - Position adjustment, transparency, timer

Selection screen description



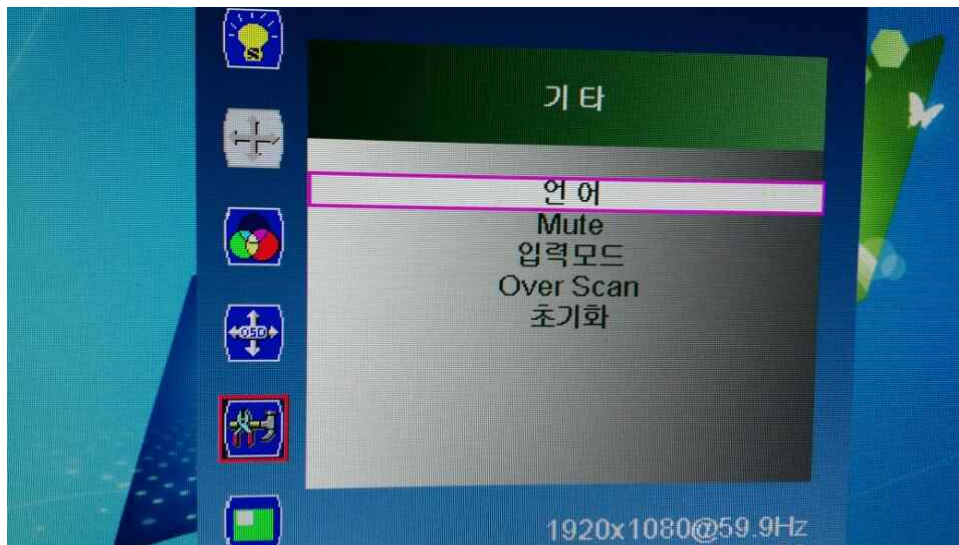
- | | |
|---------------------------|---|
| 1) Adjust left and right | Moves the OSD position from the center to the desired position. |
| 2) Up and down adjustment | Move the OSD position from the center to the desired position. |
| 3) Transparency | You can specify the transparency of the OSD display versus the desktop. |
| 4) OSD Timer | You can adjust the time the OSD is displayed on the screen |

Chapter. 5

[Screen adjustment]

Press the M button to display the OSD menu window. Use the ▲ or ▼ button to move to the desired mode, then press the S button to select the sub menu and adjust it using the ▲ or ▼ button. (Items can be deactivated depending on the input signal.)

4-5 Screen Other - Language used, Mute, Input mode, Over Scan, Initialize
Selection screen description



- 1) Language OSD language can be selected as the national language of 7 countries.
- 2) Mute This function mutes the speaker sound source.
- 3) Input Mode You can select the input method 1 to enter the monitor.
- 4) Over Scan Over Scan function can be On / Off.
- 5) Reset Restores the OSD environment to factory factory settings.

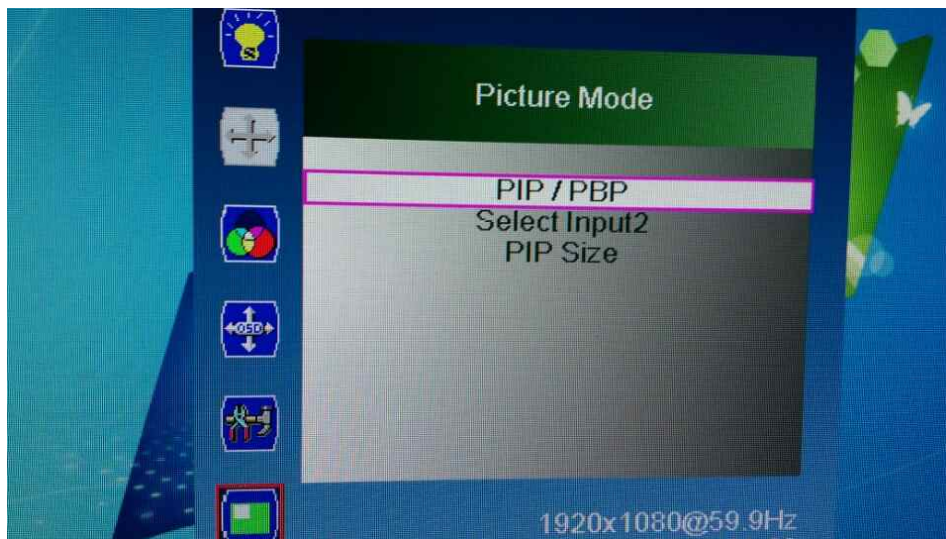
Chapter. 5

[Screen adjustment]

Press the M button to display the OSD menu window. Use the ▲ or ▼ button to move to the desired mode, then press the S button to select the sub menu and adjust it using the ▲ or ▼ button. (Items can be deactivated depending on the input signal.)

4-6 Screen Picture mode - PIP / PBP, 2nd input method selection, PIP size selection

Selection screen description



- 1) PIP/PBP PIP / PBP function can be used.
- 2) Select Input2 You can select the second input method.
- 3) PIP Size You can adjust the size of the PIP screen.
- 4)
- 5)

Chapter. 6

[Product Specification]

ToV 270M/271M/270M	
LCD Panel	68.6cm(27 type)
Pixel size	0.311mm x 0.311mm
Optimal resolution	1920 x 1080 (Full HD)
Viewing angle	Right and left : 178, Upper and Lower : 178
Contrast	1,000 : 1 (infinite : 1 DCR)
brightness	300cd/m2
Response speed	8ms (GTG)
Maximum display color number	16.7M color
power	DC 12V 5A / 50~60Hz
Speaker output	Right and left : 5W
Signal input / output	HDMI 1, HDMI 2, DVI, DP
Size (WxDx W)	625mm x 380mm x 50mm
With stand	Vertical 454mm, width 170mm
Weight (Kg)	Unpacked : 8.1Kg, Packing : 9.5Kg
Climate conditions	0-40 °C

- Product specifications are subject to change without prior notice for performance improvement.
- This monitor adjusts the size and position of the screen for commonly used timing modes and stores them in advance to the maker's internal microcomputer.
- The panel may have several pixel spots on the screen due to the characteristics of the product.
This is not related to monitor performance and is not a malfunction.

Chapter. 7

[Warranty Guide]

This product has passed thorough quality control and inspection.
If any malfunction occurs during normal use, we will warrant it in accordance with this warranty.

When you want a guarantee

1. Please check the warranty first.
2. Please recheck the fault and contact the service center.
 - Compensation standards for repair, exchange and refund of goods are subject to the Economic Planning Board Notice of Consumer Damage Compensation Regulations.
 - The repair part retention period is the same as the product warranty period.

Warranty contents

For failures occurring under normal operating conditions within the warranty period (one year from date of purchase) We will repair it free of charge according to the contents of the guarantee.

If the repairs are repaired within 3 months after repair by our company and repairer designated by us, we will process it free of charge from the repair date.

** We recommend keeping receipts. **

In the following cases, the parts and service charge will be charged during the warranty period.

1. When a malfunction occurs due to careless handling of the consumer
2. In case of malfunction due to incorrect use of electric capacity, abnormal use of power supply or defective connection device
3. In case of failure or damage due to dropping when moving after installation
4. When a problem occurs due to unexpected use of consumables or options
5. In case of malfunction due to foreign matter (water, beverage, coffee)
6. In case of malfunction due to user's internal modification
7. When a malfunction occurs due to natural disasters (fire, salt, gas, earthquake, wind, etc.)
8. In case of replacement due to wear of consumable parts
9. In case of a malfunction due to repair by a person other than our service center or our service engineer
10. Bar code and serial number are lost

In case of any failure after the warranty period, you will be charged a certain parts and service charge.

Product Warranty

Product Name		Model Name		Warranty After purchase 1 year (Consumer)
Product No				
Date of purchase				
Purchase Agent		Phone No		

1. This product is made by our technicians through strict quality control and process.
2. If any trouble occurs within the warranty period (1 year after purchasing), you can get free A / S from our service center. (Even if it is within warranty period, if it corresponds to the paid service guide in this warranty, we will repair it by receiving the service charge.)
3. If the product malfunctions, please contact the service center.
4. Be sure to present a warranty when repair is required.
5. Please note that the warranty will not be reissued.

Free and paid service

Consumer Damage Compensation Type		Compensation History		
		Within Warranty Period	After warranty period	
In case of performance failure or malfunction in normal use	If you require critical repairs within 10 days of purchase		Product Exchange and Purchase Refund	
	If critical repair is required within one month of purchase		Product exchange and free repair	
	If the replaced product requires major repairs within one month		Product exchange and free repair	
	Repairable	If the same fault occurs up to 3 times	Free repair	Paid repair
		If the same fault occurs up to 4 times	Free exchange of products	Paid repair
	Unrepairable	If you have repair parts but can not repair them	Free exchange of products	
If it can not be repaired because it does not have parts to repair		Product Exchange		
Performance due to intentional negligence of the consumer, functional malfunction	Repairable		Paid repair	Paid repair
	Unable to repair (except when it is impossible to repair due to poor appearance, not performance or functional failure)		After collecting the amount corresponding to the paid repair, exchange the product	According to our standard that is set separately
If the customer has lost the product requested by the customer (within the period of holding the parts)		Free replacement or purchase refund	20% refund of the amount depreciated	
Compensation standards for product repairs, exchanges and refunds are subject to the "Consumer Damage Rewards Regulations" issued by the Ministry of Finance and Economy.				

◆ Even within the warranty period, if the service falls under the following services, the service charge (repair cost + parts cost + travel cost, etc.) will be received and repaired.

- In case of malfunction due to user's intention or carelessness
- In case of malfunction due to incorrect use of the operating voltage (eg when using a 110V power supply)
- If our service center or a person other than our service technician repairs and fails,
- Failure due to natural disasters (fire, salt, flood, etc.)
- Failure or damage due to falling (consumer error) when moving after installation
- In case of malfunction caused by user's internal modification

♣ Customer Support Center : 82-2-2697-8968