

*Please note:* This scanned-in version of the manual is not as clear as the manual that comes with the cy-visor Mobile Personal Display.



# cy-visor

Mobile Personal Display



**DAEYANG E&C**  
DESIGNING & COMMERCIALIZING

[www.personaldisplay.com](http://www.personaldisplay.com)

### Information to user

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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### ■ Your New cy-vis<sup>©</sup>r

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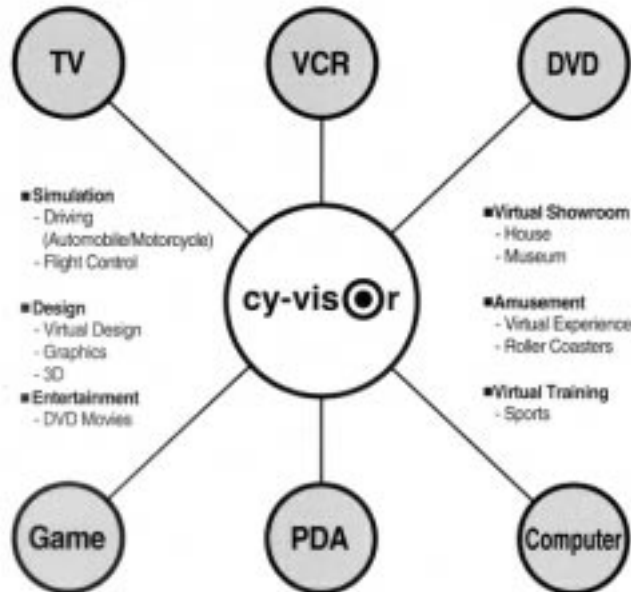


VGA/SVGA  
NTSC/PAL  
SVHS

## cy-vis<sup>or</sup>?

**Compact & Light Weight Display Headset for Commercial Applications.  
New Microdisplay Technology with 1.44 Million Dots of Resolution.**

- VGA/SVGA/NTSC/PAL/SVHS input capability
- SVGA high resolution output
- 0.49-inch, 1.44 million dots reflective MicroDisplay's microdisplay
- Simulates dynamic 44-inch screen as viewed at 2m
- 25mm eye relief
- 31° degree diagonal field of view(FOV)
- 13mm exit pupil





## Your New cy-vis<sup>or</sup>

Name of Each Part

How to Connect

How to Use



## Name of Each Part

### Headset



**1 IPD (Interpupillary Distance) Dial**  
To adjust for optimal view

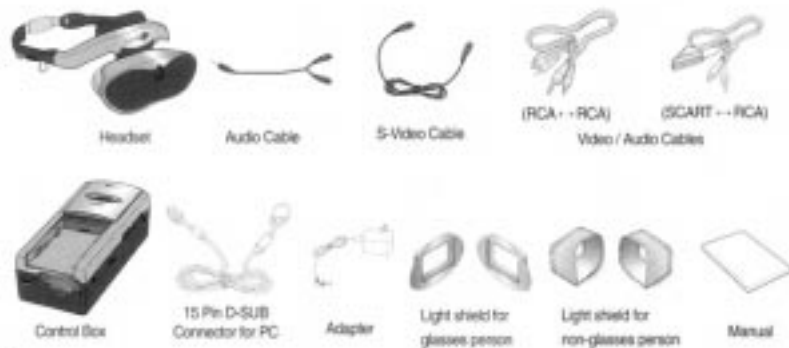
**2 Stereo Earphones**  
To listen in stereo sound

**3 Earphone Holder**  
To hold earphones when not in use

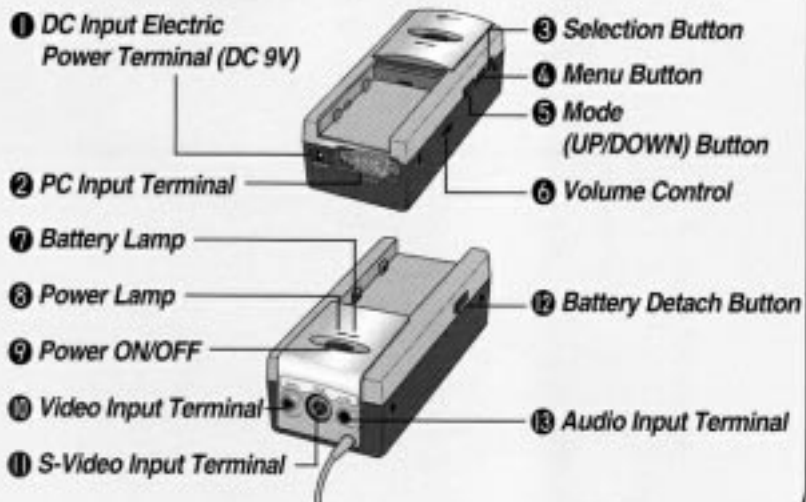
**4 Light Shield**  
Install to shield ambient light

### Check For All Parts

Check to see if all the parts are in place and contact the place of purchase for any missing or damaged parts.



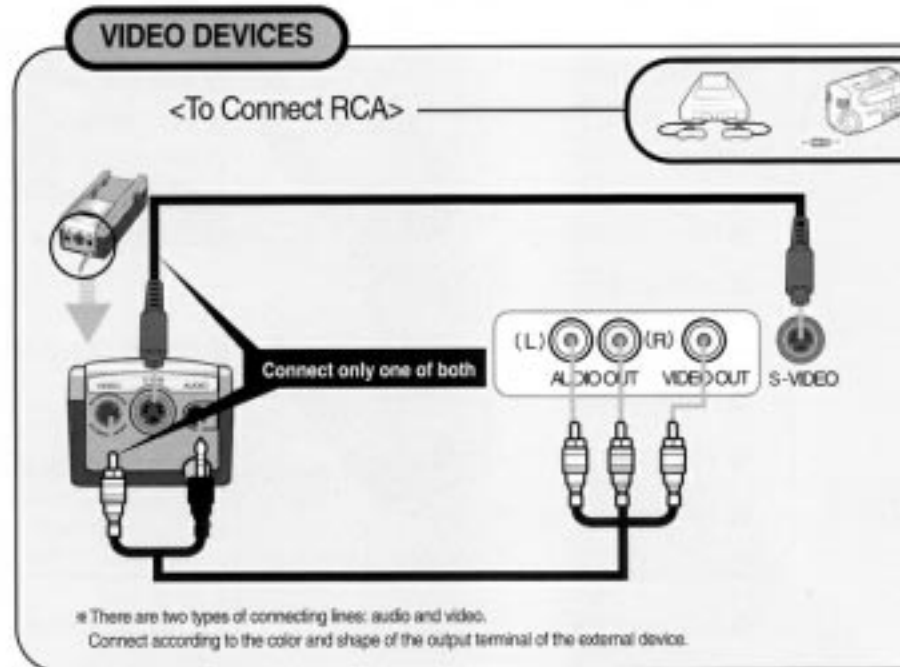
### Control Box





- |   |   |
|---|---|
| <p><b>① DC Input Electric Power Terminal (DC 9V)</b><br/>To input DC power from power outlet.</p> | <p><b>② PC Input Terminal</b><br/>To input PC screen.</p>                     |
| <p><b>③ Selection Button</b><br/>To select menu and execute command.</p>                          | <p><b>④ Menu Button</b><br/>To show menu.</p>                                 |
| <p><b>⑤ Mode (UP/DOWN) Button</b><br/>To scroll up and down the menu screen.</p>                  | <p><b>⑥ Volume Control</b><br/>To adjust volume.</p>                          |
| <p><b>⑦ Battery Lamp</b><br/>To monitor battery in reserve.</p>                                   | <p><b>⑧ Power Lamp</b><br/>To indicate power mode.</p>                        |
| <p><b>⑨ Power ON/OFF</b><br/>To switch power on and off.</p>                                      | <p><b>⑩ Video Input Terminal</b><br/>To input video from external source.</p> |
| <p><b>⑪ S-Video Input Terminal</b><br/>To input S-Video.</p>                                      | <p><b>⑫ Battery Detach Button</b><br/>To detach rechargeable battery.</p>     |
| <p><b>⑬ Audio Input Terminal</b><br/>To input Audio from external source.</p>                     |   |

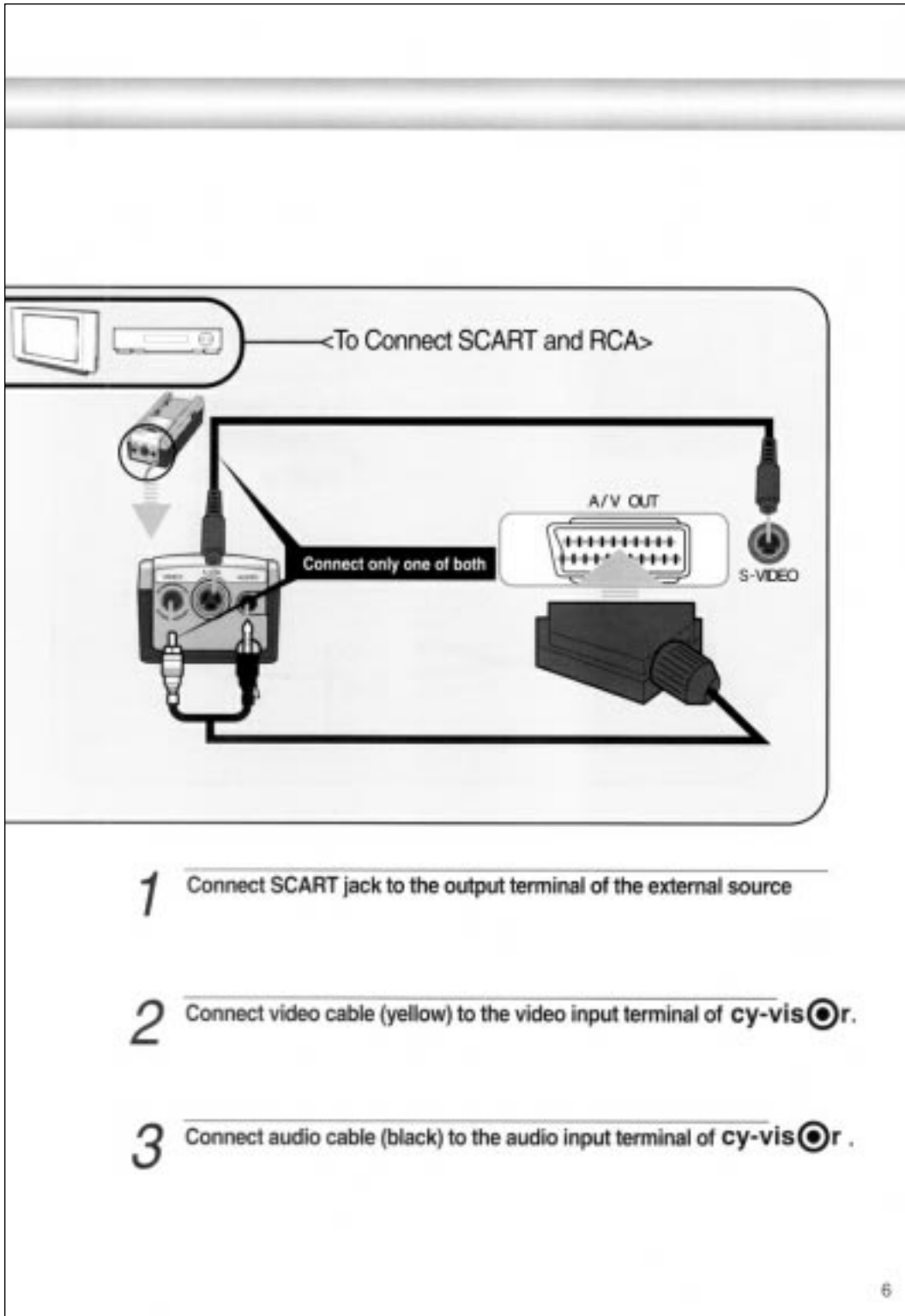
## How to Connect

Connect VCR, DVD Player, LD Player, Camcorder, Game Console and other external video devices as shown in the following diagram.

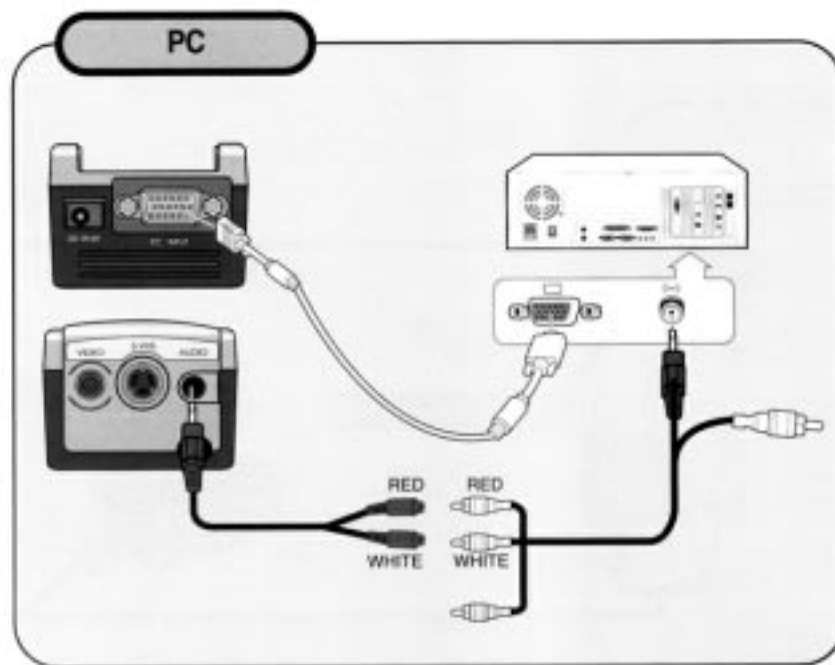


- 1 Connect video and audio cable (included) according to the shape and color of the video/audio output terminal of the external source.
  - 2 Connect video cable (yellow) to video input terminal of **cy-vis** .
  - 3 Connect audio cable (black) to audio input terminal of **cy-vis** .
- For optimal visual image, use S-video connector instead of video connector.
  - When an external device is in MONO, the audio connection cable can be connected to either the left side or right side.





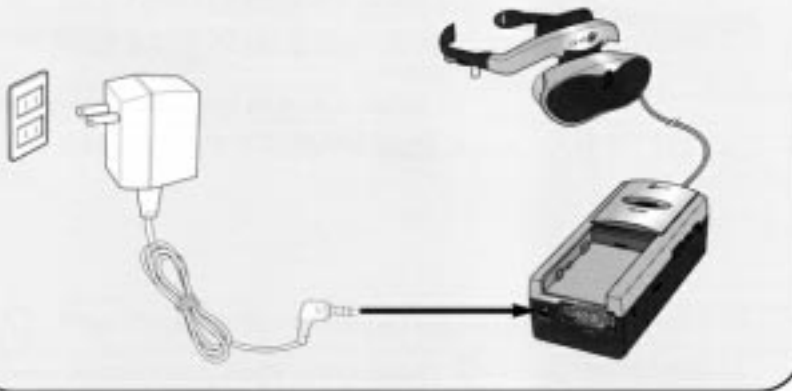
## How to Connect



- 1 Connect D-Sub cable for PC to the PC input terminal of **cy-vis** and the output terminal of the PC.
- 2 Connect the audio connection cable of **cy-vis** as shown in the figure above.

### Connecting Electric Power

Connect power **ONLY** after connecting all other lines.  
Use AC power adapter or rechargeable batteries.



#### 1 To Use AC Power Adapter

Connect the power input terminal of the AC adapter to the DC power input terminal of the control box.

Plug the AC power adaptor to the power outlet on the wall.

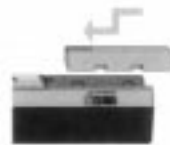
Turn on the power with the power button and the power lamp will be lit.

#### 2 To Use Rechargeable Battery MODEL:NP-F550/F750/F950 (not included)

Click on the battery in the battery slot on the control box.

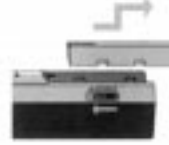
The battery lamp will be lit.

Press the power button to turn on and the power lamp will be lit.



<To attach battery>

Attach the battery pack as shown.



<To detach battery>

Press the detach button as shown and detach battery.

※ Battery charger is available in the electronic products shop.

8

## How to Use



**WARNING:**  
It can cause fatigue in the eye or blurred vision if not worn correctly.



**1**

### Put on the headset.

Hold the headset for the forehead and pull the headset down.

Be sure to place the back of the headset securely on the back part of your head.



**2**

### Fasten right the adhesive part for control on the the rear.

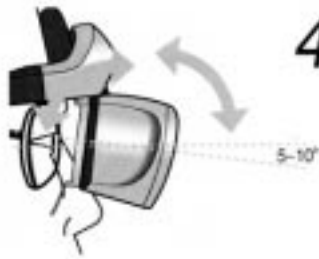


**3**

### Adjust the length of the strap.

Make sure the strap is not too tight.

If you use with the strap too tight, it can cause a headache.



#### 4 Adjust the angle of the headset.

Place the headset as close to the eyes and 5 to 10 degree below the horizontal angle.

With eyeglasses, place the display section as close to the glass lenses as possible.



#### 5 Adjust the placement of the stereo earphones.

Take out the earphones and plug them in both ears.

When not in use, place them on the holder.



#### To Use Light Shield



- Default is set for person who wears glasses.
- In order to shield ambient light, the person who doesn't wear glasses shall replace longer light shield which is included and wear it.



**WARNING:**

Depending on the eyesight of the user, the degree of focus may differ and can be adjusted by using the IPD dial in the center of the headset.

## HOW TO USE

Once all the external devices are connected and the headset correctly placed, plug in the power and follow the direction below.

- 1** Turn on the power switch of the external device and press the Play button.



- 2** Switch ON the power button on cy-vis and the power lamp will be lit.

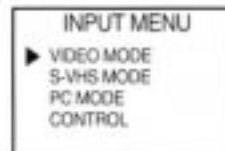


- 3** For clear view, adjust with the IPD dial until you can see the screen clearly.



- 4** Change the mode button to correct setting for the external device.

(For more information on changing mode, turn to page 15)





**WARNING:**

- This product has a small LCD on each right and left part of the display section. When viewing, the image on both LCDs will be seen as one image. Depending on the users, the image may be out of focus. When using the product, check to see if the images on the right and left LCDs are out of focus. Whenever the image is out of focus, adjust it using the IPD dial. Continued viewing without correction may cause fatigue in the eyes.

.....

- **ABOUT THE LCD**

Although the LCD is designed for high precision, sometimes there are traces of red and blue-green dots. This does not mean that the product is defective.

.....

- **ABOUT EXTENDED USE**

Do not use the product for more than 2 hours at a time.

When over two hours elapses, the message

"DO NOT USE OVER 2 HOURS" appears.

Stop using when you feel tired.

Stop using immediately when you feel fatigue in the eyes.

Continuing to use the product in these cases may be harmful to your health.

**To View Outside**



Push up the headset with the head strap on to view outside.



## Operating

### Basic Control

To Change Display Mode

To Avoid Screen Flicker

Controlling Audio Sound

Forced changing to Mono mode

To Change the Brightness of the Display

H-Position (Horizontal Position) Adjustment

V-Position (Vertical Position) Adjustment

R/G/B COLOR Adjustment

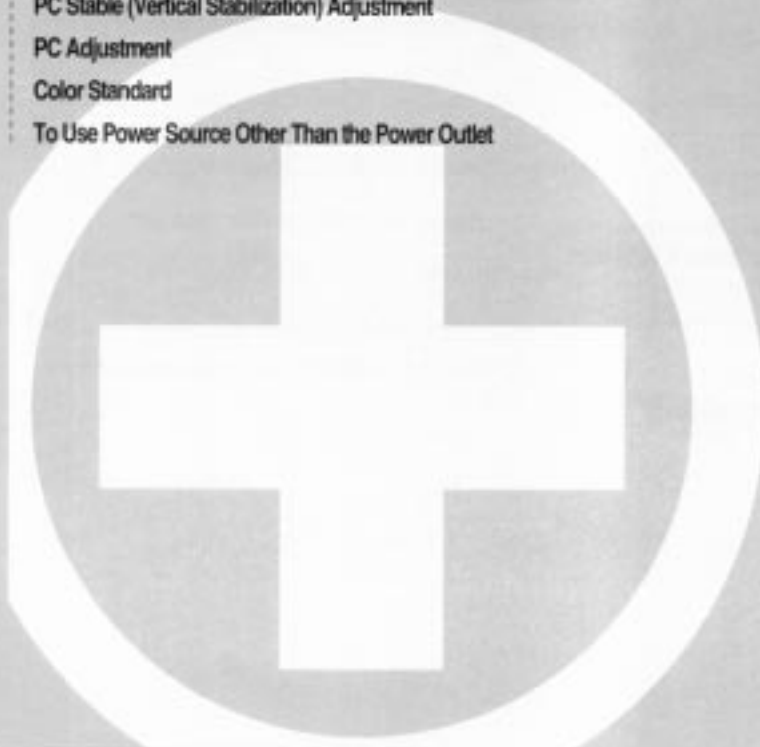
To change the V-COLOR of the Display

PC Stable (Vertical Stabilization) Adjustment

PC Adjustment





Color Standard

To Use Power Source Other Than the Power Outlet






## Basic Control

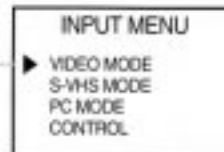
You can control cy-vis<sup>®</sup> using , , ,  buttons




- To See the Main Menu

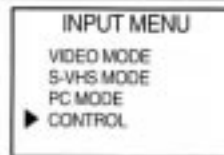
**1** Press the  button.


Indicates the menu selected.

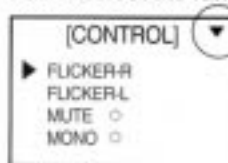


- To Scroll Up and Down the Menu

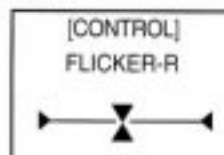
**2** Press the  button.  
Use to move ► up, down and go to the position you want.



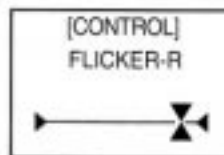
**3** Press the  button.  
Use to select the function of where ► is located.




Scroll down to see more selections.



**4** Press the  button to adjust.



**5** To delete the menu screen, press the  button until the menu screen disappears.


**Note** If you choose the Reset menu, Current mode will be changed to default mode.




## To change Display Mode

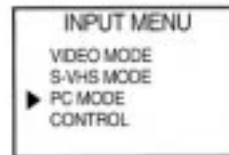
*You can select the video of your choice by changing the mode.*

- To View PC - Finish connecting PC and cy-vis<sup>®</sup> first and adjust the headset for comfortable fit.

**1** Turn on the power for PC and cy-vis<sup>®</sup>.

**2** Press the  button.

Use the   buttons to move ► to the PC MODE. And then press the  button.




**3** The PC MODE has been switched.


**Note** In the PC MODE, when the current input mode is unsupported, the picture might not be shown.


At this time after setting to the correct PC mode, re-switch to the PC MODE.

Modes Supported: VGA(up to 85Hz), SVGA(up to 75Hz)

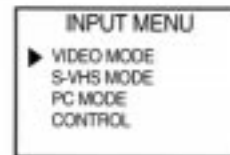
- To View Video / To view S-VHS

**1** Turn on the power for VCR and cy-vis .

**2** Press the  button.

Using the  button, go to VIDEO MODE.

Press the  button.



**3** The VIDEO MODE has been switched.








**Note:** To Switch the S-VHS MODE, adjust in the same way as above.

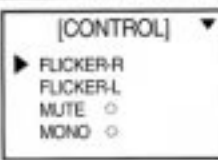

## To Avoid Screen Flicker

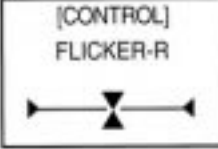

*This is to get rid of screen flickers displayed.*

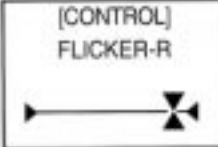
- Example : If screen flickers appear on the right side of the screen

- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.


- 2 Go to FLICKER-R using the  button.


- 3 Press the  button to enter the Adjustment mode.

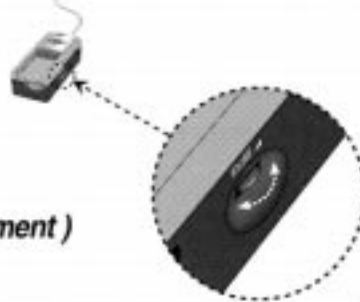

- 4 Press the  button until the screen flickers are disappeared.






**Note:** Take the same procedure using FLICKER-L for controlling the flickers on the left side of the screen.

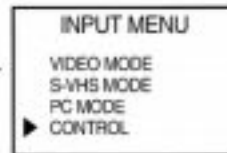
## Controlling Audio Sound

If you want to adjust volume level, turn the volume dial at a side of the main system.

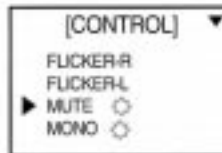






If you mute (turn off sound for a moment )

- 1** Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.



- 2** Press the  button to move ► to the mute.



- 3** Press the  button. Then, the  on the screen will be changed to .  
Then, the sound will muted.  
To cancel mute, press the  button once again.






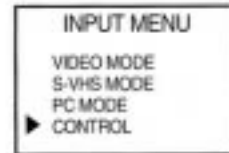
 : MUTE ON


 : MUTE OFF

## Forced changing to Mono mode




If you want to listen to mono sound or cannot tune the station channels due to radio disturbance, you may switch to mono mode for better sound.

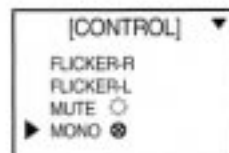
- 1** Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.



- 2** Press the  button to move ▶ to the mono.



- 3** Press the  button. Then, the screen state will be changed from  to .  
Then, the sound will be changed to mono mode.






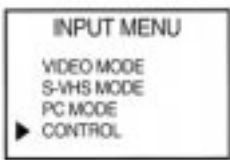
⊗ : MUTE ON


○ : MUTE OFF


## To Change the Brightness of the Display


- Example : To make the whole screen brighter(Brightness Change)

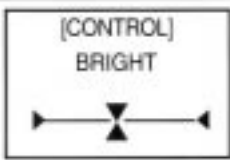
- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.




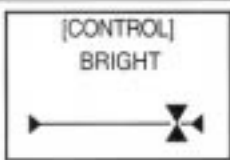
INPUT MENU  
VIDEO MODE  
S-VHS MODE  
PC MODE  
▶ CONTROL
- 2 Go to BRIGHT using the  button.




[CONTROL] ▼  
▶ BRIGHT  
CONTRAST  
H-POSITION  
V-POSITION
- 3 Press the  button to enter the Adjustment mode.



[CONTROL]  
BRIGHT  
◀────────▶
- 4 Adjust the brightness using the  button.






[CONTROL]  
BRIGHT  
────────▶
- 5 To delete the menu screen, press the  button until the menu screen disappears.

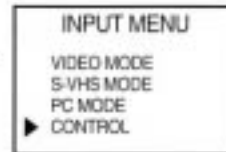
**Note:** To adjust the shading(Contrast Adjustment), adjust in the same way as above. Contrast Adjustment is defined as the adjustment of the brightness and darkness between the displayed image and background.


## H-Position (Horizontal Position) Adjustment

When the picture is not centered, select  
H-POSITION to center by moving left and right.




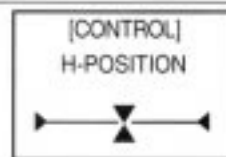
- 1** Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.




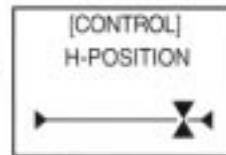
- 2** Go to H-POSITION using the  button.




- 3** Press the  button to change H-POSITION.



- 4** Use the  button to center the desktop picture.  
Up Button: Moves the picture right



Down Button: Moves the picture left

- 5** To delete the menu screen, press the  button until the menu screen disappears.






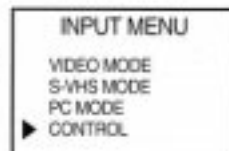



## V-Position (Vertical Position) Adjustment

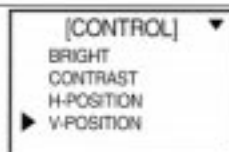
When the picture is not centered, select V-POSITION to center by moving up and down.




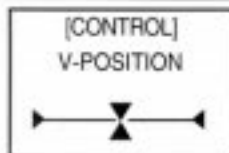
- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.




- 2 Go to V-POSITION using the  button.



- 3 Press the  button to change V-POSITION.



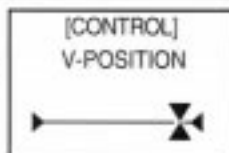
- 4 Use the  button to center the desktop picture.


Up button:

Moves the picture UP

Down button:

Moves the picture DOWN








- 5 To delete the menu screen, press the  button until the menu screen disappears.



## R/G/B-COLOR Adjustment

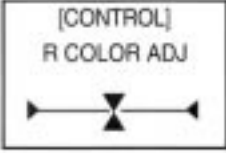

*Initial color tone from factory is optimized, but you can change Red, Green or Blue COLOR tone according to your preference.*

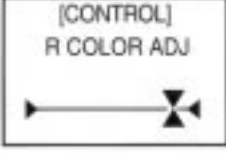

● example : If you want to adjust Red Color gain on the picture.

- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.


- 2 Go to R COLOR ADJ using the  button.





- 3 Press the  button to enter the Adjustment mode.

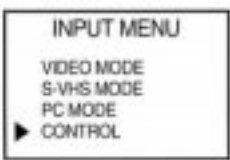

- 4 Using the  button to adjust the gain of the color meeting the user's taste.  
Left : The gain of the Red color gets lighter.  
Right : The gain of the Red color gets thicker.



- 5 To delete the menu screen, press the  button until the menu screen disappears.


## To Change the V-COLOR of the Display


*Initial color tone from factory is optimized, but you can change color tone according to your preference.*

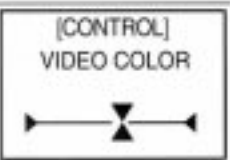
- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.




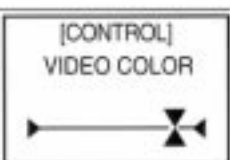
INPUT MENU  
VIDEO MODE  
S-VHS MODE  
PC MODE  
▶ CONTROL
- 2 Press the  button to move ▶ to the V COLOR ADJ.




[CONTROL] ▼  
▶ R COLOR ADJ  
G COLOR ADJ  
B COLOR ADJ  
V COLOR ADJ
- 3 Press the  button to enter the adjustment mode.






[CONTROL]  
VIDEO COLOR  
◀────────▶
- 4 Use the  buttons to adjust the gain of the color meeting the user's taste.  
Left : The gain of the color gets lighter  
Right : The gain of the color gets thicker

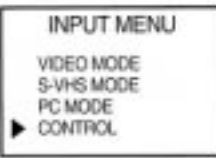





[CONTROL]  
VIDEO COLOR  
────────▶
- 5 To delete the menu screen, press the  button until the menu screen disappears.

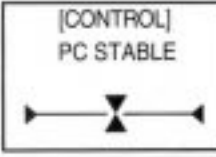

## PC Stable (Vertical Stabilization) Adjustment

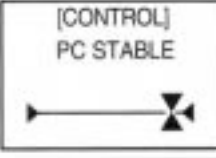

*This feature works only in the PC. This feature works for stabilization when any instability happens in a vertical direction on the PC screen. Depending on the characteristics of the VGA card in the PC, a perfectly stabilized point might not be present.*

- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.


- 2 Go to PC STABLE using the  button.





- 3 Press the  button to change PC STABLE.



- 4 Use the  buttons to adjust the stabilization of the screen.



- 5 To delete the menu screen, press the  button until the menu screen disappears.

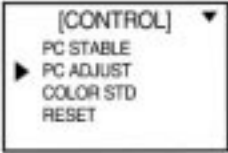
## PC Adjustment (To stabilize the PC screen: Only necessary in the PC mode)


*As each PC has to some extent timing error in its VGA card, the crossing on the screen might happen. In this case, adjust the value of VGA for identical match.*

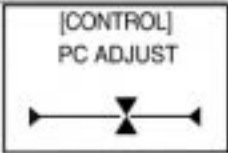
- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.




INPUT MENU  
VIDEO MODE  
S-VHS MODE  
PC MODE  
▶ CONTROL
- 2 Go to PC ADJUST using the  button.

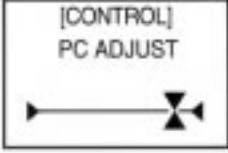


[CONTROL] ▼  
PC STABLE  
▶ PC ADJUST  
COLOR STD  
RESET
- 3 Press the  button to change PC ADJUST.




[CONTROL]  
PC ADJUST

◀────────▶
- 4 Use the  buttons to adjust the stabilization of the screen.







[CONTROL]  
PC ADJUST


────────▶
- 5 To delete the menu screen, press the  button until the menu screen disappears.


## Color Standard


*You may adjust the color standard of video and S-VHS.  
Set the color standard properly meeting your own color standard.  
The two items shown on the screen will automatically be alternated.*

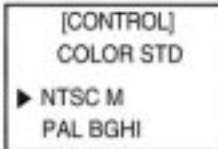
- 1 Press the  button.  
Go to CONTROL using the  button.  
Press the  button to enter the CONTROL mode.




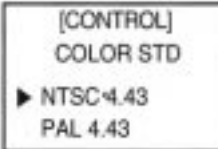
INPUT MENU  
VIDEO MODE  
S-VHS MODE  
PC MODE  
▶ CONTROL
- 2 Go to COLOR STD using the  button.



[CONTROL] ▼  
PC STABLE  
PC ADJUST  
▶ COLOR STD  
RESET
- 3 Press the  button to select COLOR STD.



[CONTROL]  
COLOR STD  
▶ NTSC M  
PAL BGHI
- 4 Use the  button to select the COLOR STD.  
Once broadcasting system has been properly set, you can receive the best color display on your screen.



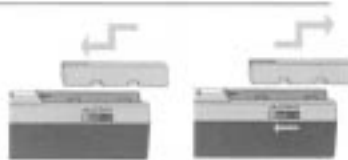
[CONTROL]  
COLOR STD  
▶ NTSC 4.43  
PAL 4.43

## To Use Power Source Other Than the Power Outlet

You can purchase a battery pack (Model: NP-F550, F750, or F950) in place of power outlet.

- To recharge battery, use battery charger which is available in the market.

- 1** Level the battery on top of the control box and slide it on.  
To detach, press the detach button and slide it out.

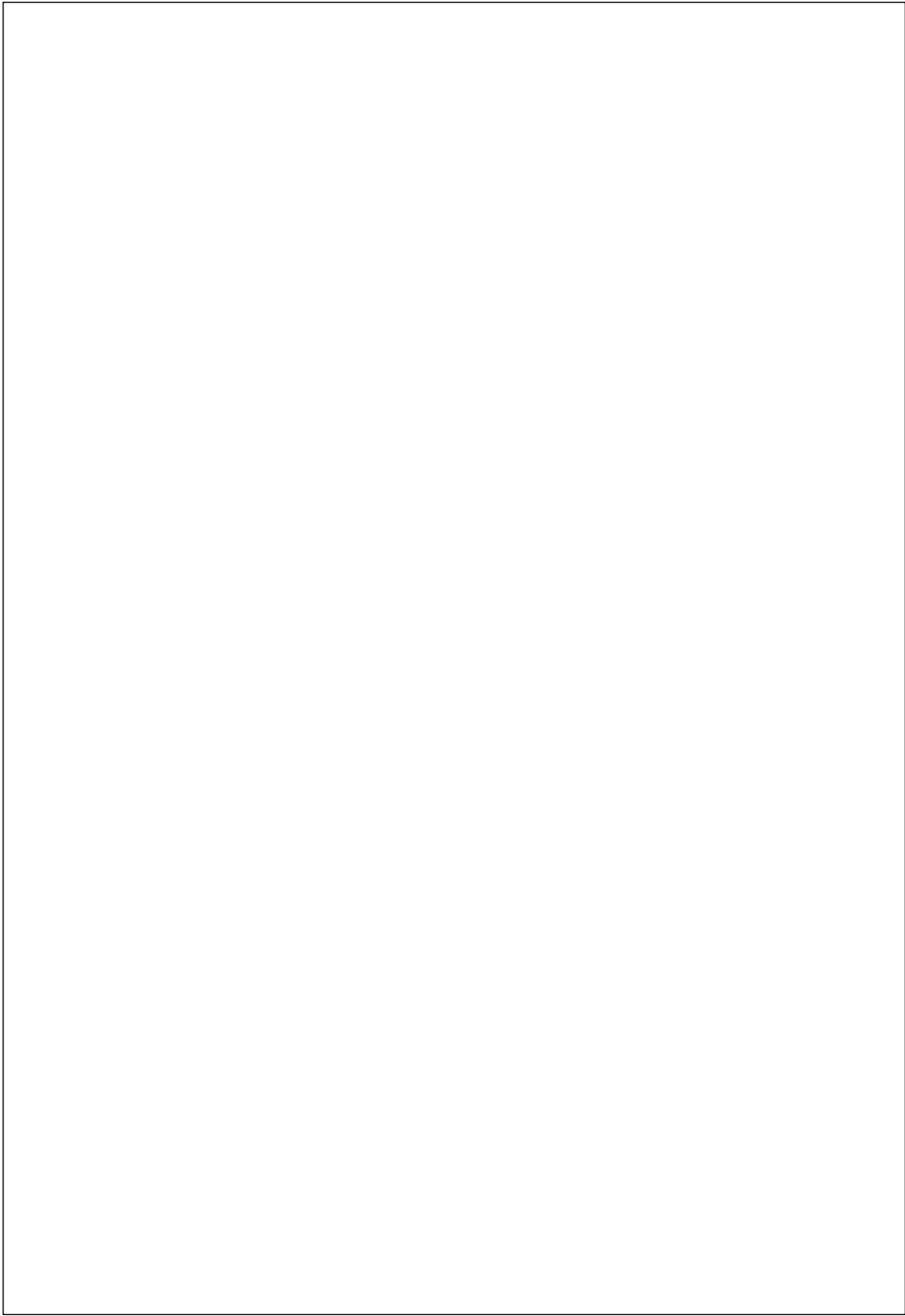


- 2** When battery is applied, battery lamp will be lit.



	Running Time (when fully recharged)	Recharging Time
NP-F550	2 hour	Approx. 8 hours
NP-F750	4 hour	Approx. 16 hours
NP-F950	6 hour	Approx. 24 hours

**WARNING:**  
The running time and recharging time may vary depending on the battery capacity and condition. If the battery lamp goes off during use, recharge the battery. At low temperature, the running time for the battery may be shorter than usual.







## Appendix

Safety Cautions

Troubleshooting

Specifications

Product Warrantee



## Safety Cautions

*Please read carefully for your safety and to prevent any damage.*

### About Power

Please unplug the power line when not in use.

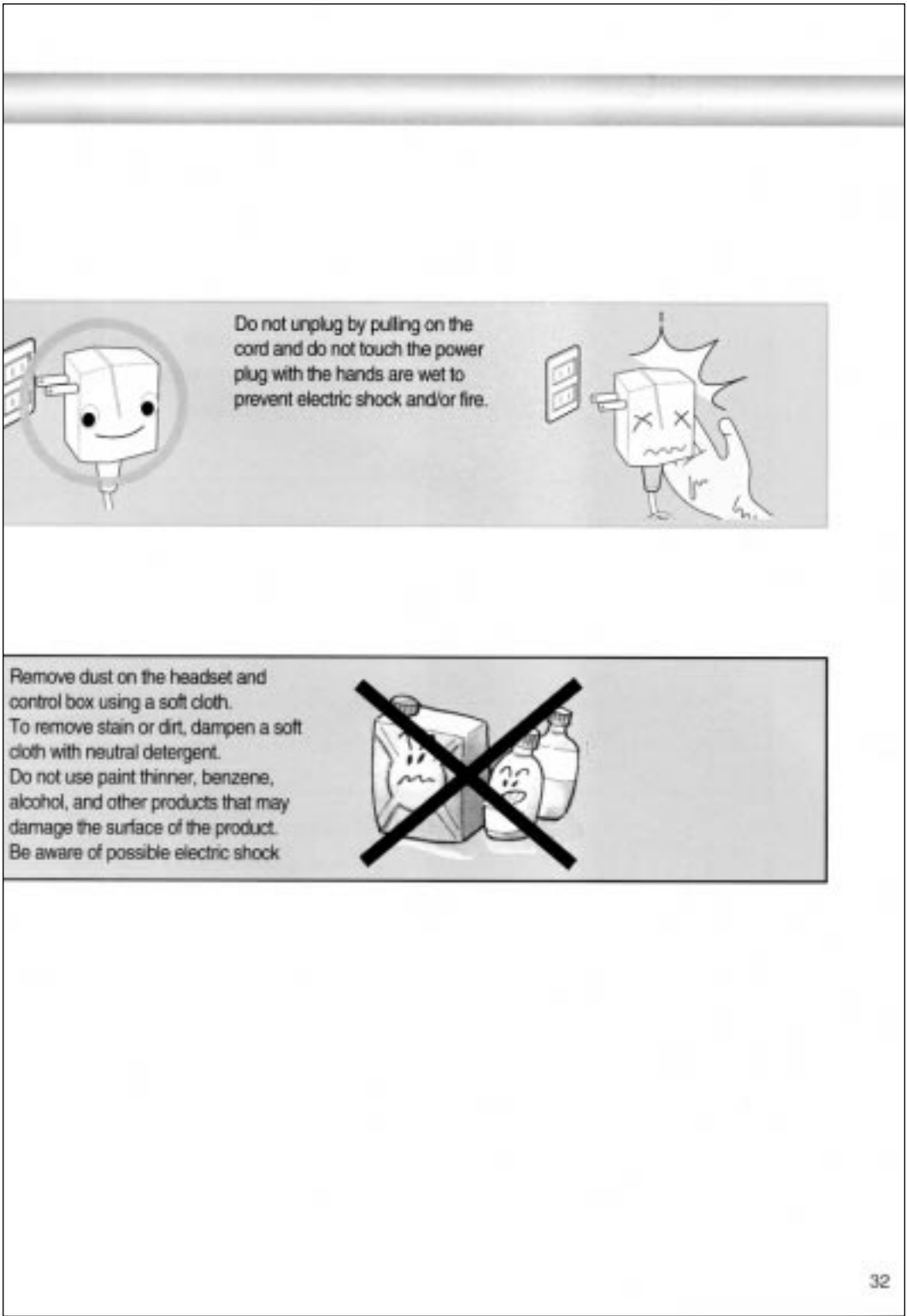


Always use the designated AC power adapter (included with the product). Using other AC power adapter may cause damage or fire.

### About Cleaning

Always unplug the power adapter before cleaning the product to prevent electric shock and/or fire.





## Troubleshooting

*Try following the direction below and if the problem continues, then turn off the power and consult the nearest service center.*

Problem	Check list
No video	<ul style="list-style-type: none"><li>- Is the power plug in place?</li><li>- Is rechargeable battery working properly?</li><li>- Is the power switch on?</li></ul>
Dark and fuzzy picture	<ul style="list-style-type: none"><li>- Is the external device in place?</li><li>- Have you try to adjust the brightness in the menu screen?</li><li>- Does the internal side of the display need cleaning?</li></ul>
Screen goes off suddenly	<ul style="list-style-type: none"><li>- Did you use up all the battery?</li></ul>
No sound	<ul style="list-style-type: none"><li>- Is the volume set at zero?</li><li>- Is the mute in selected?</li></ul>
Short battery running time	<ul style="list-style-type: none"><li>- Is the battery fully recharged?</li><li>- Is the battery old?</li></ul>
Abnormal color	<ul style="list-style-type: none"><li>- Check the color control.</li></ul>

Possible Solution
<ul style="list-style-type: none"><li>- Plug in the power adapter.</li><li>- Change the battery.</li><li>- Turn on the power switch.</li></ul>
<ul style="list-style-type: none"><li>- Connect the external device.</li><li>- Adjust the brightness.</li><li>- Clean with a soft cloth.</li></ul>
<ul style="list-style-type: none"><li>- Recharge or replace the battery.</li></ul>
<ul style="list-style-type: none"><li>- Turn up the volume control.</li><li>- Cancel the mute.</li></ul>
<ul style="list-style-type: none"><li>- Recharge fully.</li><li>- Replace with new battery.</li></ul>
<ul style="list-style-type: none"><li>- Adjust color by selecting COLOR in the MENU screen.</li></ul>

## Specifications

<b>MODEL</b>	DH - 4400VP
<b>Signal System</b>	VGA/SVGA/NTSC/PAL/SVHS
<b>LCD</b>	0.49 - inch 1.44 million dot MicroDisplay
<b>Dot Number/panel</b>	800(H)×600(V)×RGB
<b>Virtual Image Size</b>	44-inch at 2m
<b>Viewing Angle</b>	31° degree diagonal
<b>Video Input</b>	Y/C, Composite
<b>PC Input</b>	RGB
<b>Control Function</b>	BRIGHTNESS, CONTRAST, COLOR, VOLUME, FLICKER, POSITION
<b>Connectors PC input</b>	PC input D-sub 15PiN
<b>A/V input</b>	Stereo Mini Jack
<b>Power consumption</b>	Approx. 3.3W(PC mode) Approx. 3.0W(AV mode)
<b>Operating Temperature</b>	10-50 °C
<b>Storage Temperature</b>	0-60 °C
<b>Dimensions</b>	Headset 175(W)×225(D)×100(H) Control Box 58(W)×140(D)×45(H)
<b>Weight</b>	Headset 155g(160g) Control Box 175g(180g)

# Product Warrantee

## On our services under warrantee

- Following is regulation on compensation for damages incurred on consumers. **DAEYANG E&C** guarantees the following in terms of this product.
- When malfunction occurs, please contact the vendor or our service center.
- From the date compensation is requested, our decision on whether the request is legal will be notified within 7 days and compensation will be made within 14 days.

Product name		Model name	
Purchase date	Day/Month/Year ( / / )	Serial number	
Vendor		Price	

## Free Services

Free services are applicable within one year since the date of purchase (product warrantee period).  
(Three months in the case of keyboard or remote controller.)

- If the product is used for business purposes, the warrantee period is shortened to 6 months.

Types of damages to consumers	Types of compensation		
	Within warrantee period	After warrantee period	
When important repair is necessary due to defects in product performance and function under normal usage of the product within 10 days of the product purchase	Exchange or refund		
When important repair is necessary due to defects in product performance and function under normal usage of the product	Free repair or exchange		
Repair is possible	Up to three occurrences of malfunction due to the same problem	Free repair	Repair with fee
	Fourth occurrence of malfunction due to the same problem	Free repair	Repair with fee
Repair is impossible	Repair parts are available but repair is impossible (Within repair part storage period)	Exchange or refund	Exchange after a reduction of a fixed amount of money.
	Repair is impossible because repair parts are not available (After repair part storage period)	Exchange or refund	Refund after a reduction of a fixed amount of money and a 10% markup.

## Services with a fee

### (1) Non-repair cases

If customers request services regarding non-repair cases, repair fee is charged. Therefore, please read the user's manual carefully. (If servicing is impossible, separate criteria are applied.)

<ul style="list-style-type: none"> <li>• Simple services that do not require disassembling of the product such as explanations on product functions.</li> <li>• When the vendor did not install the product properly and the product has to be reinstalled.</li> <li>• Dust and other materials that got into the product have to be cleaned and removed.</li> </ul>	<p>Service fee is charged from the second</p> <p>One free service</p>
<ul style="list-style-type: none"> <li>• Installation is not done properly due to moving, etc.</li> <li>• Purchasing condition is such that the customer can request reinstallation.</li> <li>• Reinstallation is necessary because of the consumer's improper installation.</li> <li>• Explorations on the network and product usage.</li> </ul>	<p>Service fee is charged from the beginning</p>

### (2) Malfunctions due to customers

- Malfunction occurred because the consumer mishandled the product or attempted improper repair or conversion.
  - Malfunction occurred because someone from the vendor or the service center who is not an engineer attempted repair.
  - Malfunction caused by the use of wrong voltage.
  - After installation, malfunction or damage occurred due to dropping the product while moving, etc.
  - Malfunction occurred because components or options that are not authorized by our company were used.
- ### (3) Other cases
- Malfunctions caused by natural calamities (fire, damage from sea wind, flood, etc.).
  - Components have reached their normal product life.

**DAEYANG E&C**

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[www.personaldisplay.com](http://www.personaldisplay.com)

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