3) CH MEMORY

- Move cursor to "CH MEMORY" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, make present channel numbber remained or erased at AUTO CH SELECT {Refer to 5) CH. SELECT}

> * Note : Added channel number will be shown on the screen with GREEN COLOR whenever you chanege the channel manually, while the erased channel number shown with WHITE COLOR.
> You can use hot key of Remote Control for ADD / ERASE.

4) CH BAND

- Move cursor to "CH BAND" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, select one between Air TV and Cable TV.

> * Note : You can use hot key of Remote Control.

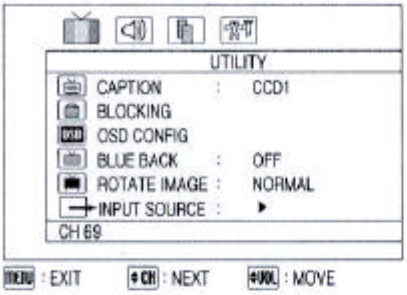
5) CH SELECT

- Move cursor to "CH SELECT" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, decide the preferable way for channel selection between AUTO and MANUAL.

> * If you select AUTO, the only channels set through AUTO SEARCH will appear when you change the channel by using "CH(▲)" and "CH(▼)" button.
> If you have erased some channels through CH MEMORY function, erased channels will be skipped.
>
> So as to recall the skipped channels, you can retry with AUTO SEARCH function or select MANUAL of CH SELECT.
>
> If you select MANUAL, all the channels will appear in sequence.
> In this case, memorized channel number will be shown on the screen with GREEN COLOR, while the erased one shown with WHITE COLOR.

5. UTILITY

- Move cursor to "UTILITY" by using "Vol+" or "Vol-" button.



1) CAPTION

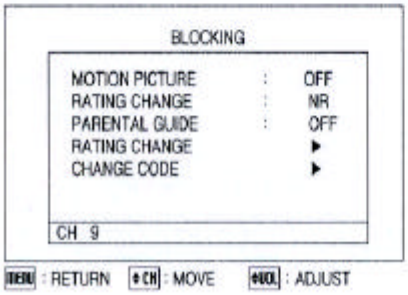
- Move cursor to "CAPTION" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, decide CAPTION ON or OFF.
- When the CAPTION is ON, 4 choices of CAPTION mode(CCD1, CCD2, TEXT1, TEXT2,) will be shown on the screen.
- By using "Vol+" or "Vol-" button, selet one of 4 modes.

2) BLOCKING

- Move cursor to "BLOCKING" by using "CH(▼)" button.
- Press "Vol+" or "Vol-" button, and ACCESS CODE will be required. Initial access code is 8806.

> * Note : You can change the ACCESS CODE later, through the function of "CHANGE CODE".
> But because the initial code is still working for emergency, please be careful that it will not be opened to children.

- Put 4 digits ACCESS CODE and following box will appear on the screen.



MOTION PICTURE By using "Vol" button, decide "MOTION PICTURE" ON or OFF

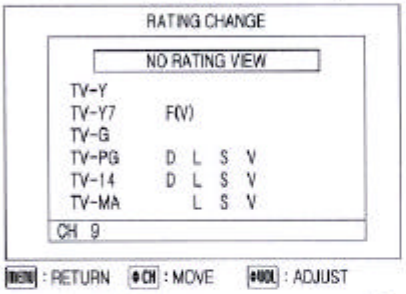
RATING CHANGE By using "Vol" button, decide NR, G, PG, PG-13 for present channel.

NR	: No Rating View
G	: General Audience
PG	: Parental Guidance
PG-13	: Parental Guidance to 13 years and older

PARENTAL GUIDE By using "Vol" button, decide "PARENTAL GUIDE" ON or OFF

RATING CHANGE

- Press "Vol" button, and following Control Box will appear on the screen.



- By using "Vol" button, move cursor in sequence like DOWN and RIGHT.
- If you press "CH(▼)" or "CH(▲)" button on the RATING where the cursor place, the RATING has been chosen and the Color of it changes to GREEN from WHITE.
- Refer to following table for your choice of RATING

Description and Content Themes for Age-Based Ratings

TV -Y	**All children.** Themes and elements in this program are designed for a young audience, including children from ages 2~6. It is not expected to frighten younger children.
TV -Y7	**Directed to children 7 years and older.** Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violance(FV) or Comedic violance, or may frighten children under the age of 7.

TV – G	General Audience. Most parents would find this program suitable for all ages. It contains little or no sexual dialogue(D), or situations(S), no strong language(L), and little or no vilolance(V)
TV – PG	Parental Guidance Suggested. Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes – Some suggestive dialogue (D) – Infrequent coarse language (L) – Some sexual situations (S) – Moderate violance (V)
TV – 14	Parents Strongly Cautioned. Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes. – Intensely suggestive dialogue (D) – Strong coarse language (L) – Intense sexual situations (S) – Intense violance (V)
TV – MA	Mature Audience Only Specifically designed to be viewed by adults and may be unsuitable for children under 17. It containes one or more of the following cnontent themes. – Crude indecent language (L) – Explicit sexual activity (S) – Graphic violance (V)

CHANGE CODE

- Move cursor to "CHANGE CODE"
- Press "Vol" button and following Box will appear on the screen.

CHANGE CODE
— — — —

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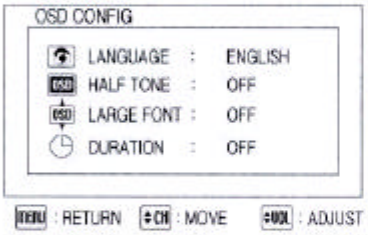
- Input your own code of 4 digits, and the "CHANGE CODE" will change to "CONFIRM CODE".
- If you input your own code once again, the "CONFIRM CODE" will change to "CHARGED PASSWORD" and new code has been reserved.

* Note : Even the new code has been reserved, the initial code is still working for emergency.
And so please be careful that the initial code will not be disclosed to children.

3) OSD CONFIG

- Move cursor to "OSD CONFIG" by using "CH(▼)" button, and following box will appear on the screen,



A. LANGUAGE : By using "Vol+" or "Vol−" button, select one LANGUAGE among ENGLISH, KOREAN and JAPANESE.

B. HALF TONE : By using "Vol+" or "Vol−" button, decide "HALF TONE" ON or OFF.

C. LARGE FONT : By using "Vol+" or "Vol−" button, decide the size of FONT(ON or OFF).

D. DURATION : By using "Vol+" or "Vol−" button, decide the time how long OSD FONT remaining on the SCREEN.
There are 5 choices for the time of remaining like OFF, 10sec, 20sec, 30sec, 60sec.

* OFF : OSD Font will not disappear until you exit from OSD MENU.
10 sec : If you do not work in the OSD MENU for 10seconds, it will disappear from the screen.
20 sec : If you do not work in the OSD MENU for 20seconds, it will disappear from the screen.
30 sec : If you do not work in the OSD MENU for 30seconds, it will disappear from the screen.
60 sec : If you do not work in the OSD MENU for 60seconds, it will disappear from the screen.

4) BLUE BACK

* This function is to decide the color for Back Ground of the picture.

- Move cursor to "BLUE BACK" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, decide "BLUE BACK" ON or OFF.

* When the BLUE BACK is ON, the Back Ground color of the screen will be Blue whenever no signals are input to the unit.
At the BLUE BACK is OFF, there will be no color on the Back Ground of the screen.

5) ROTATE IMAGE

* This function is to make the picture UP SIDE DOWN or LEFT SIDE TO RIGHT.

- Move cursor to "ROTATE IMAGE" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, select the Viewing of the picture among NORMAL, MIRROR (Left side to Right), and REVERSAL (Up side Down)

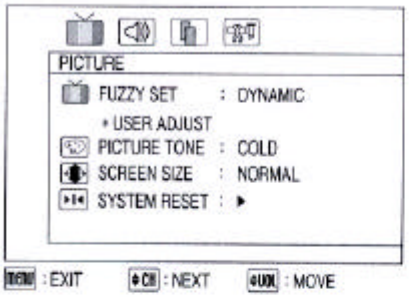
6) INPUT SOURCE

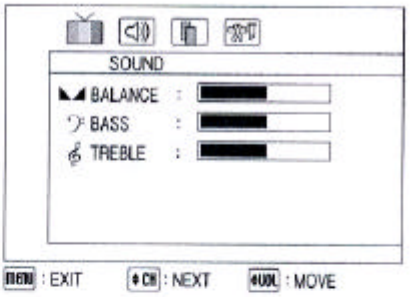
- Move cursor to "INPUT SOURCE" by using "CH(▼)" button.
- By using "Vol+" or "Vol-" button, decide the mode you want to enter, among PC Monitor, Video, S-Video, DVD and TV.

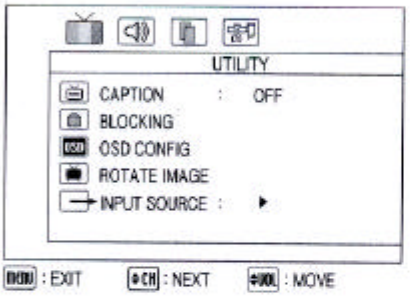
* You can use Hot key, "TV / Video" of Remote Control and enter the mode you want directly.

B. At Video(S-Video) and DVD mode

1. OSD FORMAT







There are 3 OSD Formats at VIDEO Mode, as above illustrations show.

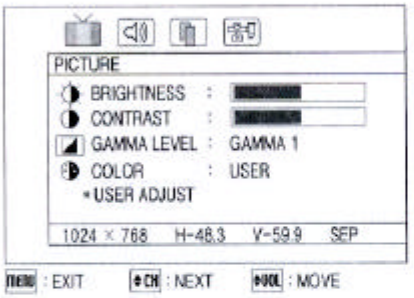
* When you press "MENU" button, the first format, "PICTURE" will appear on the screen.
  And "SOUND", "UTILTY" will appear by turn when you move cursor to right hand side by using "Vol+" key.

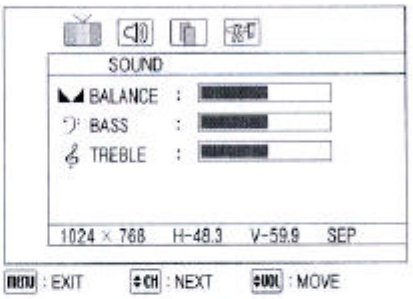
2. PICTURE, SOUND, UTILITY

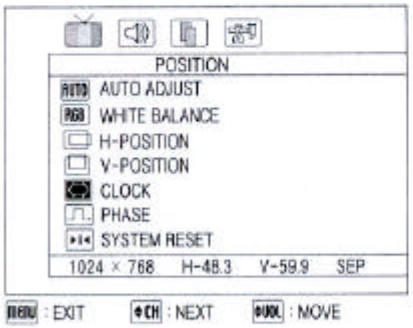
* Because the manual for these functions are quite same as those AT TV Mode, you can refer to PICTURE, SOUND and UTILITY at TV MODE.

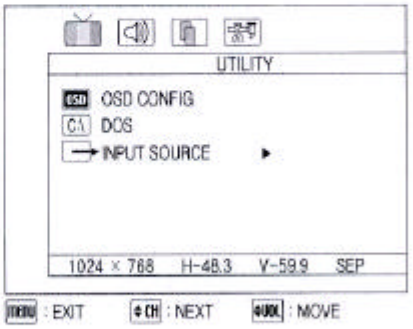
C. At PC Monitor mode

1. OSD FORMAT







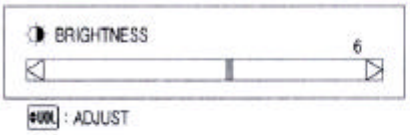


ETL Inc.
#584 Sangwhal-ri, Kanam-myon,
Yoju-kun, Kyounggi-do,
469-885, Korea

2. PICTURE

BRIGHTNESS, CONTRAST

- Move cursor to a data among BRIGHTNESS,CONTRAST by using "Vol+" or "Vol-" button
- And following Control Box will appear on the screen.



- By using "Vol+" or "Vol-" button, adjust the picture state.

GAMMA LEVEL

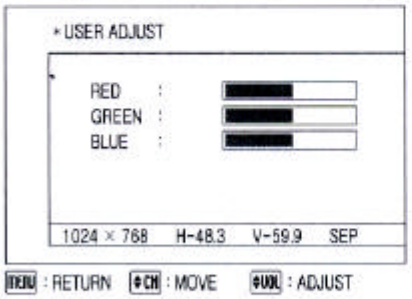
- There are 3 choices for Picture Level like GAMMA 1, GAMMA 2, and GAMMA 0.
- By using "Vol+" or "Vol-" button, select one of Level.

COLOR

- There are 4 choices for COLOR state like 9300K, 6500K, 5500K and USER.
- By using "Vol+" or "Vol-" button, select one of COLOR state.

* USER ADJUST

- When you select "USER", following Control Box will appear on the screen.



- Move cursor to one of the COLOR which you want to adjust.
- Adjust the COLOR state by using "Vol+" or "Vol-" button.

3. SOUND

- Same as that at TV Mode.

4. POSITION

AUTO ADJUST	The location and quality of the picture will be adjusted to the most desirable state automatically.
WHITE BALANCE	The COLOR balance will be to the most desirable state automatically.
H. POSITION	The picture can be moved to Left or Right hand side.
V. POSITION	The picture can be moved Up or Down.
CLOCK	This function is to minimize the Vertical bars or stripes visible on the screen back ground. And you can expand or shrink the screen size horizontally, too.
PHASE	This function is to minimize Horizontal bars or stripes visible on the screen back ground. And you can clear or sharpen the image of characters.
SYSTEM RESET	All adjustments will be back to factory settings.

5. UTILITY

OSD CONFIG	Same as that at TV Mode.
DOS	By using "Vol+" or "Vol-" button, decide your Monitor compatible for DOS mode 640 Horizontal Lines(GPX) or DOS mode 720 Hotizontal Lines(TEXT).
INPUT SOURCE	Same as that at TV Mode.

How to install monitor driver

When the monitor driver is installed, the resolution and frequency of your monitor is automatically set to the most suitable mode for users and it provides the clearest picture. The monitor driver is included in the box.

<The Program for installation of WINDOWS Software>
This section shows how to install the monitor driver for Windows software (WINDOWS 95/98/2000).
Refer to the following procedures.

Caution : Check if your monitor is compatible type to the driver before you install it.
(If the Driver is not proper for your monitor, there can be the abnormal fluctuation of the frequency or bad resolution)

1) Automatic Installation

Put the diskette in the deck, and click "install exe".
(By using "Search" function)

Click the model no. of your product and then click "OK".

When "insert disk" appears on the screen, click "OK".
When the words "monitor is successfully installed" appears on the screen, click "Ok".

When "Restart the system" is shown on the screen, click "Yes" for completion of whole process.

2) Manual Installation

- On the screen of WINDOWS Software, put the Mouse point somewhere on the screen, and then click "registration information" by using right side button of your Mouse.

- Click "monitor" and then click "change".
- Click "next" in the updated master Window.
- After making a driver list, select the desired driver and click "next".
- After inserting the diskette, set the directory and click "ok".
  (If you are not sure of the driver route location, click "find")
- When the words "select model" appears on the screen, select the model no. of your product and click "next".
- When the words "completed installation of selected driver" appears on the screen, click "finish", "close", "yes" by turn and then exit.

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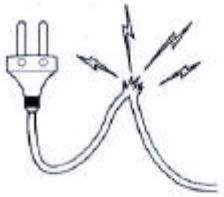
Standard signal timing chart for PC monitor

If the signals released from the computer are same as following matrix, "Standard Pattern of Signals", the picture is automatically set to the best condition. If the released signals are not same, the picture will not appear on the screen but only the power indicator will work. Thus it is important that you set the signals same as following matrix at first by refering to the Video Card Guide.

	Resolution	Frequency			Polarity	
		Horizontal (KHz)	Vertical (Hz)	Transmissin speed (Mb)	H	V
1	640×350	31.5	70	25.2	+	−
2	720×400	31.5	70.1	28.3	−	+
3	640×480M	31.5	59.9	25.2	−	−
4	640×480	31.5	59.9	25.2	−	−
5	640×480M	35	66.7	30.2	−	−
6	640×480	37.9	72.8	31.5	−	−
7	640×480	37.5	75	31.5	−	−
8	800×600	35.2	56.3	36	+	+
9	800×600	37.9	60.3	40	+	+
10	800×600	48.1	72.2	50	+	−
11	800×600	46.9	75	49.5	+	+
12	832×624M	49.7	74.5	57.3	−	−
13	1024×768	48.4	60	65	−	−
14	1024×768M	48.8	60	64	−	−
15	1024×768	56.5	70.1	75	−	−
16	1024×768M	60.2	74.9	80	−	−
17	1024×768	60	75	78.8	+	+
18	1152×864	63.85	70	80	+	+
19	1152×864	67.5	75	108	−	−
20	1152×870	68.681	74.98	100	+	+
21	1152×900	61.795	65.95	94.5	+	+
22	1152×900	71.809	76.15	105.6	+	+
23	1152×960	60	60	108	+	+
24	1280×1024	63.98	60	108	+	+
25	1280×1024	74.88	69.9	125	+	+
26	1280×1024	79.98	75	135	+	+

Precaution

Please pay attention to the precautions and follow them for the safety of users and to maintain the best condition of the product.



Do not use damaged plugs or worn out outlets
(Danger of electrification)

Be careful that the product is not impacted critically

Under bad weather or when you are not using the product for a long period of time, take the plug out of the outlet to prevent danger of eletrification

Do not try to disassemble, repair and / or renovate the product by yourself.
Consult a qualified service technician.

Be careful that the cord is not bended or put under heavy objects to prevent danger of electrification or fire.

Do not leave the product in humid and watery places to prevent danger of electrification

Cleaning

When you want to clean the product, take the plug out of the outlet at first Polish it with soft and clean cloth and then with damp cloth. Do not use chemical cleaners, like benzene, alcohol or others.

Specifications

LCD (panel)	Screen Size			17 Inch (Diagonal Length)
	Visible Screen Size			337.92(H)×270.336(V)mm
	Pixel Range			0.264(H)×0.264(V)mm
	Number of Pixel			1280×1024 Pixels
	Luminance of White			270 cd / m2
	Type			a-si TFT-LCD(Liquid Crystal Display)
	Viewing Angle	Hor.	θ L	70
			θ R	70
		Ver.	Φ H	60
			Φ L	60
Sync	Horizontal Frequency			30~79.98 KHz (Auto Set)
	Vertical Frequency			56~75 Hz (Auto Set)
Color Display	Displayable colour			16.2 M Colour
Input Signal	Input Signal			Analog 0.7Vpp Positive (75Ω)
Video	Video Signal			NTSC, PAL/SECAM
	Audio Signal			MONO
	Video Type			CVBS, S-VHS, COMPOSITE VIDEO
Sync Signal	Seperate Sync Signal			TTL Level Positive or Negative
	Composite Sync Signal			TTL Level Positive or Negative
	Green Video + Composite			Composite sync : Vp-p Negative (Video 0.7Vp-p positive)
Power/Voltage	Voltage Use			Flow 100-240V,60Hz/50Hz DC 12V/3.5A
Power Consumption	On working regularity			Maximum 45W
	At Safe Mode			Under 3W
Working Condition	Temperature			-20℃~40℃
	Humidity			10%~95%
Size	Unit Size			473(W)×405(H)×200(D)mm
	Box Size			525(W)×440(H)×245(D)mm
Weight	Net (Unit only)			6.3kg
	Gross (After packing)			7.9 kg

The above specifications can be changed for quality improvement at manufacturer's discretion.

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FCC Information

FCC Part 15.105

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential Installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions. May cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experience radio / TV technician for help

FCC Part 15.21

Changes or modifications not expressly approved by the party responsible for compliance Could void the user`s authority to operate the equipment