Channel memory (NTSC model)

Your TV can memorize and store all of the channels available. Once the channels are memorized, you can use the CH▼ or CH▲ buttons to scan through the available channels.

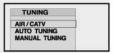
Selecting the broadcast source

Before memorizing available channels, you must select what broadcast source your TV is connected to either an antenna or a cable system.

FUNCTION
TRACKING INFORMATION TUNING

- Press the MENU button.
 Result: The : PICTURE menu is displayed.
- Press the CH▼ or CH▲ button to select the TUNING then press the SEL button.

 Result: The TUNING menu is displayed.



- AIR / CATV AIR ◀ ▶: SELECT
- 4 Use the CH▼ or CH▲ buttons to select AIR/CATV then press the SEL button.
- 5 If antenna is connected, leave it as AIR displayed. If cable connected, press the VOL

 or VOL

 buttons to select STD or HRC.

Channel memory (NTSC model)

Storing channels in memory automatically

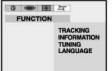
AUTO TUNING AIR 30 MENU : STOP First, select the broadcast source as described on the previous page. With the TUNING menu on screen, move the CH▼ button down to select AUTO TUNING.

AIR 30

2 Press the SEL button. The TV will begin memorizing all of the available stations.

Adding and erasing channels

1 Use the numeric buttons to select the channel you want to add or erase.



- 2 To add a channel or erase channel, press the MENU button.



- 4 Use the CH▼ or CH▲ buttons to select TUNING then press SEL button.

 Result: The TUNING menu is displayed.
- 5 Use the CH▼ or CH▲ buttons to select MANUAL TUNING then press the SEL button.

MANUAL TUNING AIR 11 ERASED ◀:ERASE ▶: ADD

- 7 Press the menu button repeatedly until the menus disappear.

Teletext (Option)

Teletext Decoder

A B C

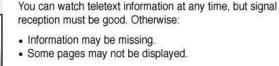
Most television channels carry "teletext", pages of written information that provide information such as :

- Television programme tables
- News bulletins
- · Weather forecasts
- · Sports results
- · Subtitles for the hard of hearing

The teletext pages are organized according to six categories:

Part	contents
Α	Selected page number.
В	Broadcasting station identity.
C	Current page number or search status
D	Date and time.
E	Text.
F	Status information.

Displaying Teletext Information



To activate the teletext mode and display the contents page :

- 1 Using the ▲ (□) or ▼ (□) button, select the channel providing the teletext service.
- 2 Press the TTX/MIX () button to activate the teletext mode.

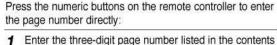
 Result: The contents page is displayed. It can be

Result: The contents page is displayed. It can be redisplayed at any time by pressing the INDEX (ョ) button.

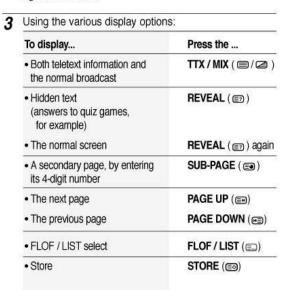
- **3** To display the actual broadcast simultaneously with the teletext page, press the TTX/MIX(⊜ / ๔) button.
- 4 To return to normal viewing, press the TV() button.

Teletext (Option)

Using the Teletext functions



- 1 Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.
 Result: The current page counter is incremented and the page is then displayed.
- 2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the HOLD (
) button. Press the HOLD (
) button again to resume.







Caption (Option)

Viewig closed captions

Your TV decodes and displays the closed caption that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television program, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packing: CC

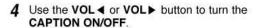
Note!: The Caption feature dose not work with PC signals.



Press the MENU button.
Result: The PICTURE menu is displayed.

- Juse the CH▼ button to move the CAPTION and then press the SEL button.

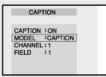
 Result: The CAPTION menu is displayed.





Note!: Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

Caption (Option)



5 Use the CH▼ or CH▲ button to move MODE. Use the VOL ◀ or VOL▶ button to select CAPTION or TEXT.

Note!: In CAPTION mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In TEXT mode, information is not related to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

6 Depending on the particular broadcast, it might be necessary to make changes to CHANNEL and FIELD.

Use the CH▼, CH▲, VOL◀ and VOL▶ buttons to make the changes. (Follow the same procedure as in steps 4~5

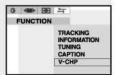
Press the MENU button to exit.

above.)

Note!: Different CHANNEL and FIELD display different information: FIELD 2 carries additional information that supplements the information in FIELD 1 (For example, CHANNEL 1 may have subtitles in English, while CHANNEL 2 has subtitles in Spanish.)

Using the V-CHIP

The V-CHIP feature automatically locks out programming that is deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-CHIP restrictions can be up or changed.



- Press the **MENU** button. Result: The PICTURE menu is displayed.
- Use the VOL ✓ or VOL ▶ button to move the **FUNCTION** menu.
- Press the CH▼ to move V-CHIP and then press the SEL button. Result: The ENTER PIN screen is displayed.



4 Enter 4-Digit PIN number

Note!: The default PIN number for a new TV set is "0-0-0-0".



After entering a valid PIN number, the V-CHIP menu screen will appear.

Press the CH▼ button to move the CHANGE PIN.



Press the SEL button.

Result: The CHANGE PIN screen will appear. Choose any 4-digits for your PIN and enter numbers. As soon as the 4-digits entered, the CONFIRM PIN screen will appear. Enter once again the same 4-digits. When the CONFIRM PIN screen disappears, your PIN has been memorized.

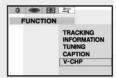
Press the MENU button to exit.

Note!: If you forgot the PIN, press the remote control keys in the following sequence, which resets the PIN to "0-0-0-0":

POWER OFF→MUTE→4→5→8→2→ POWER ON

V-CHIP (Option)

How to enable/disable the V-CHIP

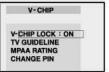


- Press the MENU button. Result: The PICTURE menu is displayed.
- Use the VOL ◀ or VOL ▶ button to move the **FUNCTION** menu.
- Press the CH▼ button to move V-CHIP and then press the SEL button.

Result: The ENTER PIN screen is displayed.



4 Enter your 4-Digit PIN number

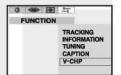


5 After entering a valid PIN number, the V-CHIP menu screen will appear and the V-CHIP LOCK will be highlighted.

To enable or disable the V-CHIP feature, press the VOL or VOL ▶ buttons to turn V-CHIP LOCK ON/OFF.

How to setup restriction using the "TV GUIDELINE"

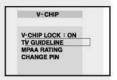
First, set up a personal identification number(PIN), and enable the **V-CHIP**. (See previous section.) Parental restrictions can be set up using either of two methods: The TV **GUIDELINES** or **MPAA RATING**.

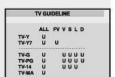


- 1 Press the MENU button.
 Result: The PICTURE menu is displayed.
- 2 Use the VOL ✓ or VOL ▶ buttons to move the FUNCTION menu.
- 3 Press the CH▼ to move the V-CHIP and then Press the SEL button.
 Result: The ENTER PIN screen is displayed.



4 Enter your 4-Digit PIN number





- After entering a valid PIN number, the V-CHIP menu screen will appear.
 Press the CH▼ button to select the TV GUIDE-LINE.
 Press the SEL button.
 - Result:The TV GUILDELINE screen is displayed.
- 6 Press the CH▼ or CH▲ button to select one of the six age-based categories :

TV-Y	Young children				
TV-Y7	Children 7 and Over				

TV-G General audience
TV-PG Parental guidance
TV-14 Viewers 14 and Over
TV-MA Mature audience

V-CHIP (Option)

Note!: These categories consist of two separate groups: TV-Y and TV-Y7(young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

7 At this point, one of the TV-Ratings is selected. Press the VOL▼ button: Depending on your existing setup, a letter "U" or "B" will be highlighted. (U = Unblocked, B = Blocked) While the "U" or "B" is highlighted, Press the CH▼ or CH▲ button to block or unblock the category.

To select a different TV-Rating, press the **VOL** ◀ or **VOL** ▶ button not to be highlighted any of the letter "U" or "B" and repeat the process.

Note 1 : The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change.

FV: Fantasy Violence

V : Violence

S : Sexual Situation L : Adult Language

D : Sexual Suggestive Dialog

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Note 2: The V-CHIP will automatically block certain categories that are "more restrictive". For example, if you block TV-Y category, then TV-Y7 will be automatically blocked.

Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings(FV, D, L, S, V) work together similarly.(See next Section.)

How to set the FV, D, L, S and V sub-ratings. First, select one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA. (See step 6.) Next, while the TV-Rating is hilighted, repeatedly press the VOL ▶ button. This will cycle through the available sub-ratings (FV, L, S, D or V). A hilighted letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is highlighted, Press the CH▼ or CH▲ button to change the sub-rating.

To select a different TV-Rating, press the **VOL**

or **VOL** ▶ button not to be highlighted any of the letter "U" or "B" and repeat the process.

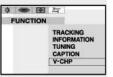
Note!: The V-CHIP will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-raiting in TV-14 and TV-MA will be automatically blocked.

Press the MENU button to exit.

V-CHIP (Option)

How to setup restriction using the MPAA RATING

The MPAA RATING system uses the Motion Picture Association of America(MPAA) system, and its main application is for movies. (Eventually, movie videocassette will be encoded with MPAA RATINGS.) When the V-CHIP LOCK is on, the TV will automatically block any programs that are with objectionable ratings. (either MPAA of TV-RATINGS)



- 1 Press the MENU button.
 Result: The PICTURE menu is displayed.
- Press the CH▼ button to move V-CHIP and then press the SEL button.

 Resulit: The ENTER PIN screen is displayed.



4 Enter your 4-Digit PIN number



After entering a valid PIN number, the V-CHIP menu screen will appear.
Press CH▼ button to move the MPAA RATING.
Press the SEL button.

Result: The MPAA RATING screen is displayed.



6 Press the CH▼ or CH▲ button to select paticular MPAA category.

The CH▼ button will cycle through the MPAA categories.

G : General audience (no restrictions).
PG : Parental guidance suggested.
PG-13 : Parents strongly cautioned.

R : Restricted. Children under 17 should

be accompanied by an adult.

NC-17: No children under age 17.

X : Adults only

NR : Not rated.

7 While a particular category is selected, press VOL▶ button to active it.

A highlited letter ("U" or "B") will be displayed.

Press the CH▼ or CH▲ button to change the "U" or "B".

Note!: The V-CHIP will automatically block any category that is "more restrictive".

For example, if you block the PG-13 category, then R, NC-17, and X will be automatically blocked also.

V-CHIP (Option)

How to reset the TV after the V-CHIP blocks a channel ("Emergency escape")

If the TV is turned to a restricted channel, the V-CHIP will block it.

The screen will go blank, the sound will be muted and following message will appear: "EXCESSIVE RATING"

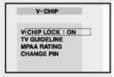
To resume normal viewing, turn to a different channel by using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-CHIP might lock out all the channels. In this case, you can turn V-CHP feature off by following sequence.



- 1 Press the MENU button.
 Result: The PICTURE menu is displayed.
- 2 Use the VOL ◆ or VOL ➤ buttons to move the FUNCTION menu.
- Press the CH▼ button to move the V-CHIP and then press the SEL button.
 Result: The ENTER PIN screen is displayed.



4 Enter your 4-Digit PIN number



After entering a valid PIN number, the V-CHIP menu screen will appear and V-CHIP LOCK will be highlighted.

Press the VOL ◀ or VOL ▶ button to temporarily disable the V-CHIP LOCK feature.

APPENDIX A: Power Saver

This monitor has a built-in power management system called Power saver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep" and "Deep Sleep". Power Saver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See below table for details.

	Normal	Power-Saving Function mode (EPA / ENERGY 2000)			
State	Operation	Standby Mode	Sleep Mode Position A1	Deep Sleep Mode Position A2	
Horizontal Sync Vertical Sync Video	Active Active Active	Inactive Active Blanked	Active Inactive Blanked	inactive Inactive Blanked	
Power Indicator	Green	Amber	Amber Blinking (0.5 sec interval)	Amber Blinking (1 sec. interval)	
Power Consumption	30W (Max.)	Less than 3W	Less than 3W	Less than 3W	

WOTE: This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.

APPENDIX B: Troubleshooting

If you have a problem setting up or using your LCD monitor, you may be able to solve it yourself. Before contacting customer service, try the suggested actions that are appropriate to your problem.

What you see	Suggested Actions	Reference
Screen is blank and power indicator is off	 Ensure that the power cord is firmly connected and the LCD monitor is on. 	Connecting a PC, page 14.
"CHECK CABLE OR SIGNAL" message	 Ensure that the signal cable is firmly connected to the PC or video sources. Ensure that the PC or video sources are turned on. 	Connecting a PC, TV or VCR Page 14, 20.
"INVALID MODE" message	Check the maximum resolution and the frequency of the video adaptor. Compare these values with the data in the Display Modes Timing Chart.	PC Stable Adjustment, page 19. APPENDIX D:Display Modes page 47.
The image is too light or too dark	 Adjust the Brightness and Contrast. 	BRIGHTNESS, page 16, 21. CONTRAST, page 16, 21.
Horizontal bars appear to flicker, jitter or shimmer on the image	Adjust the Clock function. Auto Tracking will clear it automatically.	PC Stale Adjustment. page 19.
Vertical bars appear to flicker, jitter or shimmer on the image.	Adjust the Phase function and then adjust the Clock function. Auto Tracking will clear it automatically.	
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds	The monitor is using its power management system. Move the computer's mouse or press a key on the keyboard	APPENDIX A : Power Saver, page 43.
Image is not stable and may appear to vibrate	 Auto tracking will clear it automatically Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check: Control Panel, Display, Settings 	PC Stable Adjustment, page 19.
	Horizontal frequency Vertical frequency Maximum refresh rate	31 KHz - 69KHz 56Hz - 85Hz 1024 * 768 @85Hz
Image is not centered on the screen.	Auto Position will set the best position automatically Adjust the horizontal and vertical position.	AUTO POSITION, page 18 H-POSITION, page 18 V-POSITION, page 18.

APPENDIX B: Troubleshooting

Problem	Suggested Actions	Reference	
No sound	Ensure that the audio cable is firmly connected to both the audio-in jack on your monitor and the audio-out jack on your sound card.	Connecting a PC, TV or VCF page 14,20.	
	Check the volume level	Adjusting the Sound settings,	
Sound level is too low	Check the volume level	page 17, 22.	
	 If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program. 	Refer to your computer, sound card or software documentation.	
Sound is too high pitched or too low pitched	 Adjust the Treble and Bass to appropriate level. 	Adjusting the Sound Settings, page 17, 22.	
TV signal is not received	 Ensure that the antenna cable is firmly connected to the VHF/UHF jack. 	Connecting to watch TV or VCR, page 20.	
	 Check "Channel Memory" and make sure you choose the correct channel system. (PAL Model) 	Channel Memory, page 23~24	
	 Select "Auto Tuning" to configure the channel system automatically.(PAL Model) 	or 30	
	 Check AIR/CATV is correctly selected on screen display menu. (NTSC Model) 	Selecting Broadcast Source, page 29.	

APPENDIX C : Specification

FUNCTION		SPEC			
Туре			15.1 "TFT AM LCD		
LCD Panel	Display Area		15.1 inches (307.2mm × 230.4mm) diagonal		
	Display Color		16,777,216		
	Pixel Pitch		0.3mm × 0.3mm		
	Recommended Resoution		1024 × 768 @85Hz		
	Contrast Ratio		300 : 1(Typical)		
LCD Fallel	Brightness		250cd/m²		
	Viewing Angle(L/R, U/D)		75° / 75° , 55° / 60°		
	Horizontal Frequency		31 ~ 69KHz		
	Vertical Frequency		56 ~ 85Hz		
	Outline Dimension		352.0(H) × 263.5(V) × 16.0(D)		
	Tilt Angle(up)		20 *		
	Video Input		PC Analog RGB, 15Pin D-Sub		
			Composite Video		
			S-Video		
nput / Output			SCART (PAL MOdel)		
iiput/ Output			PC Audio		
	Audio Input		Audio(L, R)		
			SCART (PAL MOdel)		
	Audio Output		Head Phone		
	Speaker Output		1.5W × 2EA		
	Antenna Input		75. Coaxial Cable		
	Color System		PAL/SECAM (EU)		
	Color System		NTSC (USA, JAPAN, KOREA)		
	Sound System		B/G, D/k, I, L/L' (EU)		
1107 ES	Sound System		M (USA, JAPAN, KOREA)		
TV Signal	Stereo Type		NICAM, A2 (EU)		
			SAP, MTS (USA)		
			EIA-J (Japan)		
	Text Option		TELETEXT (EU)		
			Cation (USA)		
	Certification		UL, FCC, CE, VCCI, MIC		
	Power Supply	AC	100~240V, 50/60Hz		
	100	DC	DC 12V, 3.3A		
	Power consumption	101	Stand-by: 3Watt / Working: 30Watt		
Others	FUSE		125V, 10A		
	Plug & Play		DDC 1/2B		
	Screen Control		On Screen Display Menu		
	Weight		NET 4.6Kg / Gross 5.5Kg		
	Remote Controller		Yes		
Size	With Stand		387mm(W) × 365mm(H) × 160mm(D)		
	Without Stand		387mm(W) × 331mm(H) × 66mm(D)		

Specification can be changed without prior notice.

APPENDIX D : Display Modes

If the signal from the system equals to the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal to the standard signal mode, adjust the mode with referring to the Videocard user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
VGA	720 * 400	31,469	70,087	28,322	-/+
	640 * 480	31,469	59,940	25,175	-1-
	640 * 480	37,500	75,000	31,500	-1-
	640 * 480	43,269	85,008	36,000	-1-
SVGA	800 * 600	46,875	75,000	49,500	+/+
	800 * 600	53,674	85,061	56,250	+/+
XGA	1024 * 768	48,363	60.004	65,000	-1-
	1024 * 768	60,023	75,029	78,750	+/+
	1024 * 768	68.677	84 997	94 500	+/+

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