

Trinitron Color TV

Operating Instructions	GB
Before operating the unit, please read this manual thorough future reference.	lly and retain it for
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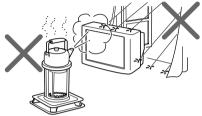
KV-EF34

WARNING

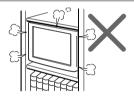
- · Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 240 V AC.



Do not open the cabinet or the rear cover of the TV. Refer servicing to qualified personnel.



To prevent fire or shock hazard, do not expose the TV to rain or moisture.

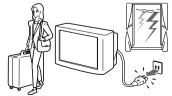


Do not install the TV in a confined space, such as a bookcase or built-in cabinet.

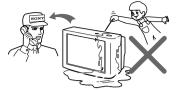
Do not block the ventilation openings of the TV.



Do not pull the power cord to disconnect the TV. Pull it out by the plug.



Disconnect the power cord during lightning storms or if you are not going to use the TV for several days.



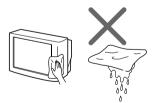
Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.



Do not install the TV in hot, humid or excessively dusty places.



Install the TV in a stable position. Do not allow children to climb onto it.



Clean the TV with a dry soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.



Do not plug too many appliances into the same power socket. Do not damage the power cord.

Using Your New TV

CD

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The features you will enjoy include:

- FAVORITE CH for quick and easy program selection (page 14)
- PIP & TWIN for viewing two programs (page 15)
- PROGRAM INDEX for displaying multiple programs (page 17)
- PICTURE/SOUND/SURROUND modes for customizing your TV

Your TV also offers the following setup features:

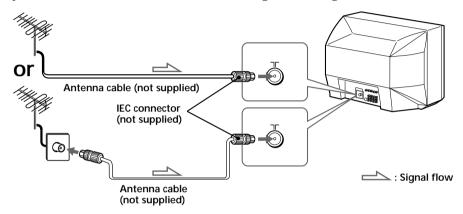
- Menu language options—English/Chinese (page 11)
- CHILD LOCK for locking out specific channels (page 32)
- INTELLIGENT VOL for automatic volume adjustment (page 31)
- FINE tuning feature (page 36)

Getting Started

Step 1

Connect the antenna

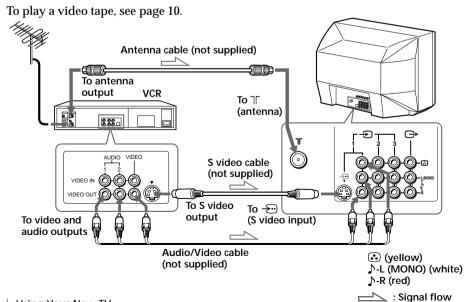
If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



CAUTION

Do not connect the power cord until all other connections are complete; otherwise, a minimal current leakage through the antenna and/or other terminals to the ground could occur.

Connecting a VCR



Notes

- Do not have concurrent connections of video equipment to the

 3 (video input) jacks at the front and the
 3 (video input) jacks at the rear of your TV; otherwise, the picture will not be displayed properly on the screen.
- When both the ⊕ (S video input) and ⊕ 1 (video input) are connected, the ⊕ (S video input) is automatically selected. To view the video input to ⊕ 1 (video input), disconnect the S video cable.

Step 2

Insert the batteries into the remote

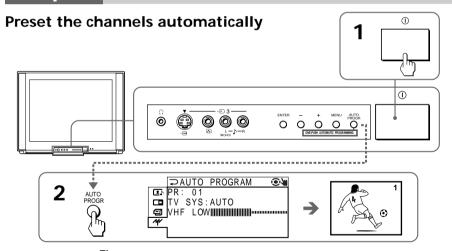




Note

• Do not use old batteries or different types of batteries together.

Step 3



Tip

To stop the automatic channel presetting, press MENU twice.

Now You Are Ready. . .

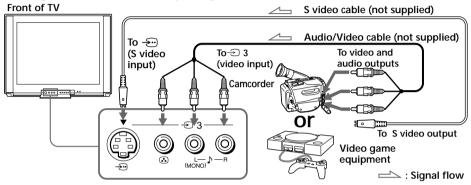
The channels are now automatically preset in your TV. To preset the channels manually, see page 35.



Connecting optional components

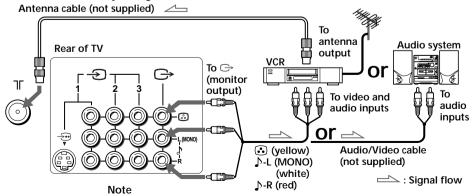
You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game, or stereo system. For operations of the connected equipment, see pages 10 and 23.

Connecting a camcorder/video game equipment using the € (video input) jacks



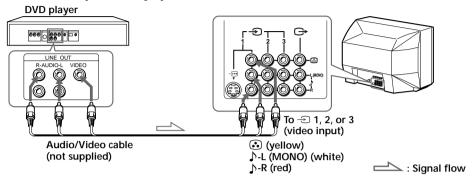
Notes

- You can also connect video equipment to the € 1, 2, or 3 (video input) jacks at the rear of your TV.
- Do not have concurrent connections of video equipment to the € 3 (video input) jacks at the front and the € 3 (video input) jacks at the rear of your TV; otherwise, the picture will not be displayed properly on the screen.
- When both the ⊕ (S video input) and ⊕ 3 (video input) are connected, the ⊕ (S video input) is automatically selected. To view the video input to ⊕ 3 (video input), disconnect the S video cable.



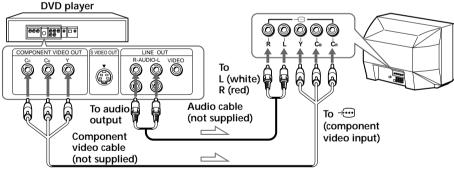
Connecting a DVD player

Connect \bigcirc 1, 2, or 3 (video input) \nearrow (audio/video) connectors on your TV to LINE OUT on your DVD player.



Connecting a DVD player with component video output connectors

- 1 Connect R and L under ← (component video input) on your TV to the LINE OUT, AUDIO R and L output connectors on your DVD player.
- 2 Using a component video cable, connect Y, CB, and CR under ← (component video input) on your TV to the COMPONENT VIDEO OUT Y, CB, and CR output connectors on your DVD player.



To component video output

Notes

: Signal flow

• Some DVD player terminals may be labeled differently:

Connect	To (on the DVD player)
Y (green)	Y
C _B (blue)	Cb, B-Y or PB
C _R (red)	Cr, R-Y or Pr

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness ("SHARP") in the PERSONAL ADJUST menu of the PICTURE MODE menu (see page 28).
- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.

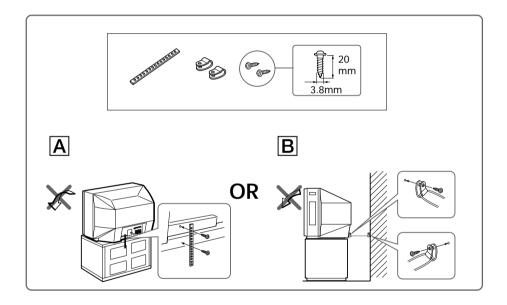
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

Mith the supplied screws, attach the stabilizer band to the TV stand and to the rear of the TV using the provided hole.

OR

Pass a cord or chain through the clamps and secure them to the rear of the TV and a wall or pillar.

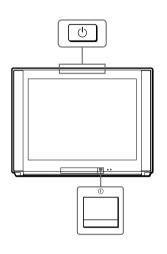


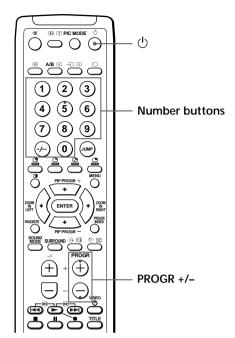
Note

• Use only the supplied screws. Use of other screws may damage the TV.

Watching the TV

This section explains various functions and operations used while watching the TV. Most operations can be done using the remote.





1 Press ① to turn on the TV.

When the TV is in standby mode (the $\bigcirc/\bigcirc/\bigcirc$) indicator on the TV is lit red), press \bigcirc on the remote or on the TV.

The PROGR +/-, $\triangle +/-$, and \bigcirc indicators on the TV light up.



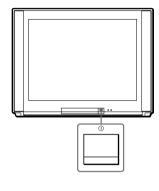
Press PROGR +/- or the number buttons to select the TV channel.

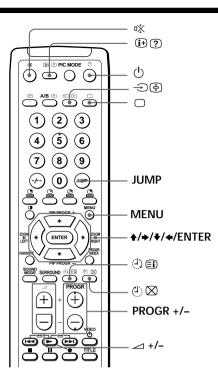
For double digit numbers, press -/--, then the number (e.g., for 25, press -/--, then 2 and 5).





Watching the TV (continued)





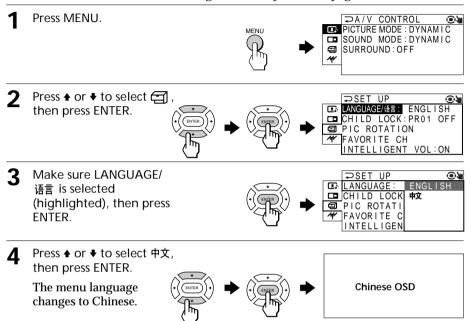
Additional tasks

То	Press
Turn off temporarily	\bigcirc . The $\bigcirc/\bigcirc/\bigcirc$ indicator on the TV lights up red.
Turn off completely	① on the TV.
Adjust the volume	∠ +/
Mute the sound	以 .
Watch the video input (VCR, camcorder, etc.)	⊕ (or ⊕ on the TV) to select "VIDEO 1," "VIDEO 2," "VIDEO 3," or "DVD." To return to the TV screen, press □ (or ⊕ on the TV).
Jump back to the previous channel	JUMP.
Display the on-screen information*	i + ?.

The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see "Introducing the menu system" on page 25.



To return to the normal screen
Press MENU.

Watching the TV (continued)

Selecting the picture mode

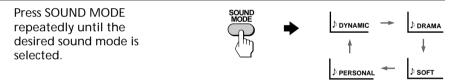
Press PIC MODE PIC MODE STANDARD DYNAMIC repeatedly until the desired picture mode is selected. PERSONAL Select To DYNAMIC receive high contrast pictures. **STANDARD** receive normal contrast pictures. SOFT receive mild contrast pictures.

A/V CONTROL menu (see page 27).

receive the last adjusted picture setting from the ADJUST option in the

Selecting the sound mode

PERSONAL



Select	То	
DYNAMIC	listen to dynamic and clear sound that emphasizes both the low and high tones.	
DRAMA	listen to sound that emphasizes voice and high tones.	
SOFT	receive soft sound.	
PERSONAL	receive the last adjusted sound setting from the ADJUST option in the A/V CONTROL menu (see page 27).	

Tip

 You can also set the picture and sound modes using the menu (see "Changing the A/V CONTROL setting" on page 27).

Setting the Wake Up timer

1 Press (1) (2) until the desired period of time appears.



- 2 Select the TV channel or video mode you want to wake up to.
- **3** Press (b), or set the Sleep timer if you want the TV to turn off automatically.

The $\bigcirc/\bigcirc/\bigcirc$ indicator on the TV lights up orange.

To cancel the Wake Up timer

Press \bigoplus **(a)** until "WAKE UP TIMER: OFF" appears, or turn off the TV's main power.

Notes

- The Wake Up timer starts immediately after the on-screen display disappears.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into standby mode. To resume watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press $\textcircled{-} \boxtimes$ until the desired period of time appears.



To cancel the Sleep timer

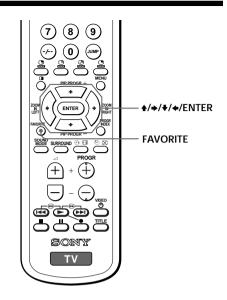
Press 4 \boxtimes until "SLEEP TIMER: OFF" appears, or turn the TV off.

Viewing your favorite channels

—FAVORITE CHANNEL

You can display seven "FAVORITE" channels for quick and easy selection.

The last seven channels selected with the number buttons are displayed in AUTO mode. You can set up your own "FAVORITE" channels in MANUAL mode (see "Changing the favorite channel setting" on page 33).



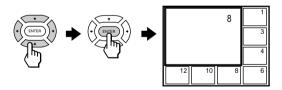
Selecting a favorite channel

1 Press FAVORITE.

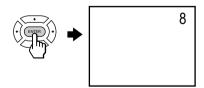
The last seven channels selected with the number buttons appear.



Press either ♠, ♠, , ♠, or ♠ to select the desired channel, then press ENTER.



3 Press ENTER again.



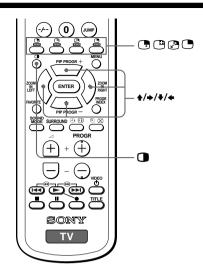
Note

 When you use your TV for the first time, seven factory set, random channels appear.

Watching two programs at the same time

—PIP, TWIN

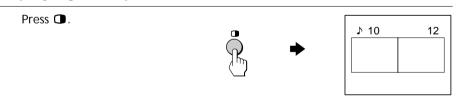
With the Picture-in-Picture (PIP) or TWIN pictures features, you can display a different TV program or video within or beside the main picture.



Displaying the PIP screen



Displaying TWIN pictures



To return to the normal screen

Press (when in the PIP screen) or (when in the TWIN picture screen).

Tips

- You can also display the PIP screen or TWIN pictures using the menu (see "Changing the MULTI PICTURE setting" on page 29).
- You can change the position of the PIP screen (see "Changing the MULTI PICTURE setting" on page 29).

continued

Watching two programs at the same time—PIP, TWIN (continued)

Additional PIP/TWIN pictures tasks

То	Press
change a TV program in the PIP screen or in the right TWIN picture	♠ or ♣. For a video input, press 🕦.
swap pictures between the main and PIP screens	
freeze the PIP screen	To unfreeze the screen, press the button again.
swap the right and left pictures of the TWIN pictures	
change the screen size of the TWIN pictures	ZOOM IN LEFT ← to increase the left screen size. ZOOM IN RIGHT → to increase the right screen size.
	ZOGN CENTER OF ENTER OF RESERVE AND A STOCK RE

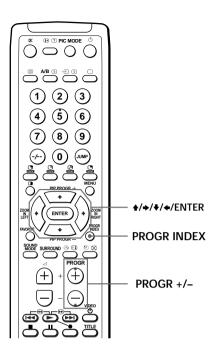
Notes

- The 🖰 button does not function in the TWIN pictures mode.
- When you display a video input on the PIP screen at a faster/slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the TV.
- In the TWIN picture screen, you can only operate and hear the sound of the main left screen (\(\Delta \) appears on the screen).
- When the button is pressed, the TV screen flickers or goes blank for about one second before the TWIN pictures appear. This does not indicate a malfunction of the TV.

Displaying multiple programs

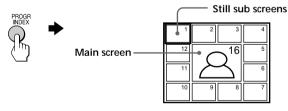
—PROGRAM INDEX

The PROGRAM INDEX feature displays all of the preset TV programs and the video inputs on twelve or seven subscreens for direct selection.

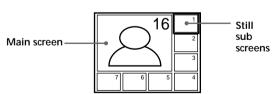


Press PROGR INDEX.

The first twelve preset programs appear one by one, clockwise from the upper left corner.



When the number of the preset TV programs is less than seven, the first seven preset programs appear one by one, clockwise from the upper right corner.



Tip

 When you press the PROGR INDEX button in the TWIN pictures mode, the left picture appears as the main screen of the PROGRAM INDEX mode.

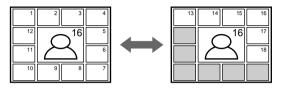
continued

Displaying multiple programs—PROGRAM INDEX (continued)

To view the next or the previous twelve preset programs

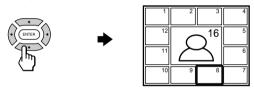
This works only when the number of the preset TV programs is more than twelve.

Press PROGR +/- on the remote or the TV.

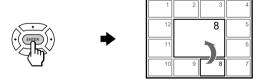


To select the desired program directly from the sub screens

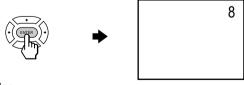
1 Press either ♠, ◆, ▼, or ◆ to move the frame to the screen of the program you want to watch.



2 Press ENTER.



3 Press ENTER again.



Tips

- You can also move the frame by pressing the +/- buttons on the TV. Press + to move the frame clockwise; press to move the frame counterclockwise.
- Pressing the number buttons directly displays the program.

To return to the normal screen

Press PROGR INDEX again, or:

- 1 Select "PROGR INDEX" from the MULTI PICTURE menu.
- 2 Press ENTER.

Tip

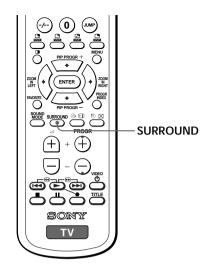
• You can also display multiple programs using the menu (see "Changing the MULTI PICTURE setting" on page 29).

Note

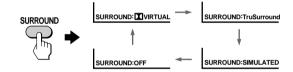
 When displaying multiple programs, only the sound of the main screen is heard.

Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.

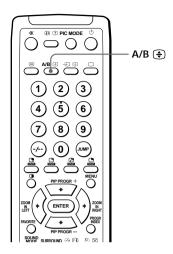


Select	То	
DID VIRTUAL	listen to Dolby* Surround encoded sound.	
TruSurround	listen to the surround sound that spreads out to the rear of a room.	
SIMULATED	ED listen to monaural sound with a stereo-like effect.	
OFF	turn off the surround sound.	

- The Virtual Dolby Surround of this model consists of Dolby Pro Logic and TruSurround.
- SIMULATED uses SRS (MONO).
- * Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol DD and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.
- "**TruSurround**" is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos.4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents."

Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.

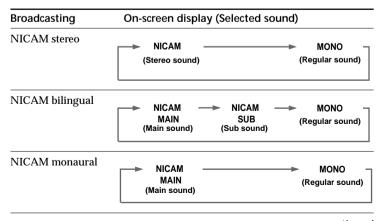


Press A/B ① repeatedly until you receive the sound mode you want.

The on-screen display changes to show the selected sound mode and the $\circlearrowleft/\circlearrowleft/\circlearrowleft$ indicator on the TV lights up red.

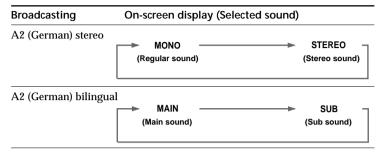


When receiving a NICAM program



Selecting a stereo or bilingual program (continued)

When receiving an A2 (German) program



Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German) Australia, Malaysia, Thailand, etc.	

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO." The sound becomes monaural, but the noise is reduced.

Press A/B \$ repeatedly until "MONO" appears on the screen.

To cancel the monaural sound setting, press $A/B \ \ \textcircled{\$}$ again until "AUTO" appears on the screen.

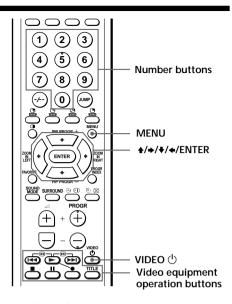


Notes

- The "MONO" or "AUTO" setting is memorized for each program position.
- You cannot receive a stereo broadcast signal when the TV is in the "MONO" setting. Normally, set the TV to "AUTO."

Operating optional components

You can use the supplied remote to operate Sony video equipment such as Beta, 8mm, VHS, MDP, CD, or DVD.



Setting up the remote to work with other connected equipment

While holding down VIDEO (b), press the following number combinations to enter the equipment's code number (see the chart below).

For example, to operate a Sony 8 mm VCR:



Code numbers for Sony video equipment

To control	Hold down VIDEO (1) and press
DVD	00
VTR1 (Beta)	01
VTR2 (8mm)	02
VTR3 (VHS)	03
MDP	04
CD	06
MD	07

Notes

- If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the setting code.
- If the equipment does not have a certain function, the corresponding button on the remote will not operate.
- When you remove the batteries, the code number may revert to the factory setting.

 continued

Operating optional components (continued)

Operating a VCR using the remote

То	Press
turn on/off	VIDEO 🖰
record	➤ while pressing ●.
play	>
stop	
fast forward (►►)	▶
rewind the tape (◀◀)	H44
pause	Press again to resume normal playback.
search the picture forward (►►) or backward (◄◄)	▶►I or I◀◀ during playback. Release to resume normal playback.

Operating a DVD player using the remote

То	Press
turn on/off	VIDEO 🖰
play	>
stop	
pause	Press again to resume normal playback.
step through different tracks of an audio disc	▶► to step forward or ► to step backward.
display the Title menu	TITLE
display the menu	MENU while holding down ●.
select the menu item	♦/♦/♦ while holding down ● .

Operating an MDP using the remote

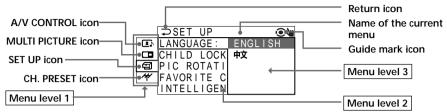
То	Press
turn on/off	VIDEO ()
play	>
stop	
pause	Press again to resume normal playback.
step through different tracks of a disc	▶► to step forward or ► to step backward.

Operating a CD/MD using the remote

То	Press
turn on/off	VIDEO 🖰
play	>
stop	
pause	Press again to resume normal playback.
go to the next/previous tracks	▶►I or I ◀◀
go forward (►►)/backward (◀◀) quickly in a track	▶►I or I while holding down ► .

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. The following is an overview of the menu system.

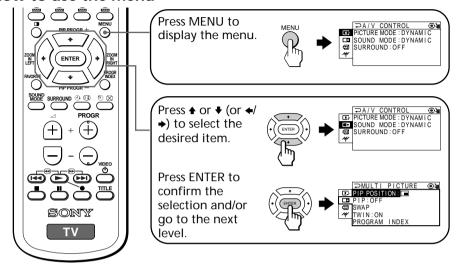


Level 1	Level 2	Level 3/Function	
A/V CONTROL	PICTURE MODE	Select the picture mode: DYNAMIC \rightarrow STANDARD \rightarrow SOFT \rightarrow PERSONAL \rightarrow ADJUST	
	ADJUST	Adjust the PERSONAL option: PICTURE \rightarrow COLOR \rightarrow BRIGHT \rightarrow HUE \rightarrow SHARP	
2	SOUND MODE	Select the sound mode: DYNAMIC \rightarrow DRAMA \rightarrow SOFT \rightarrow PERSONAL \rightarrow ADJUST	
⊆ •′	ADJUST	Adjust the PERSONAL option: BASS \rightarrow TREBLE \rightarrow BALANCE \rightarrow BBE*	
	SURROUND	Select the surround mode: $\square\square$ VIRTUAL \rightarrow TruSurround \rightarrow SIMULATED \rightarrow OFF	
MULTI	PIP POSITION	Change the position of the sub screen.	
PICTURE	PIP	Activate or deactivate the PIP feature.	
	SWAP	Swap the pictures between the main and sub screens.	
	TWIN	Display a TV program or video beside the main screen.	
	PROGRAM INDEX	Display all the preset TV programs at the same time.	
SET UP	LANGUAGE/语言	Change the menu language: ENGLISH ↔ 中文 (CHINESE)	
	CHILD LOCK	Lock out specific channels.	
	PIC ROTATION	Rotate the picture.	
Ð	FAVORITE CH	Set favorite channels.	
	INTELLIGENT VOL	Adjust the volume automatically.	
CH. PRESET	AUTO PROGRAM	Preset channels automatically.	
	MANUAL PROGRAM	Preset channels manually.	
4	SKIP	Skip unwanted or unused program numbers.	
	TV SYS	Select the TV system: $B/G \rightarrow I \rightarrow D/K \rightarrow M$	
	COL SYS	Select the color system: AUTO \rightarrow PAL \rightarrow SECAM \rightarrow NTSC3.58 \rightarrow NTSC4.43	

^{*} The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

Introducing the menu system (continued)

How to use the menu



Other menu operations

То	Press
Adjust the setting value	1 / 4 or 1 / →
Move to the next/previous menu level	→ or ←
Cancel the menu	MENU

Tips

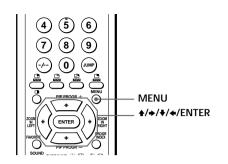
- If you want to exit from Menu level 2 to Menu level 1, press ★ or ▼ until the return icon (\square) is highlighted, then press ENTER.
- The MENU, ENTER, and +/- buttons on the TV can also be used for the operations above.

Note

• If more than 60 seconds elapse between entries, the menu screen automatically disappears.

Changing the A/V CONTROL setting

The A/V CONTROL menu allows you to adjust the picture and sound settings.

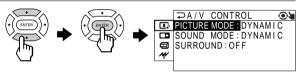


1 Press MENU.

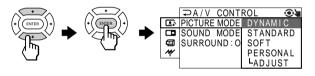


Press ★ or ★ to select

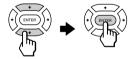
the press ENTER.



Press ♠ or ♥ to select either PICTURE MODE, SOUND MODE, or SURROUND, then press ENTER.



Press ♠ or ♦ to select the desired option, then press ENTER.



For	Select
PICTURE MODE	either DYNAMIC, STANDARD, SOFT, PERSONAL*, or ADJUST.
SOUND MODE	either DYNAMIC, DRAMA, SOFT, PERSONAL*, or ADJUST.
SURROUND	either 🕮 VIRTUAL, TruSurround, SIMULATED, or OFF.

* When the PERSONAL mode is selected, the last adjusted picture/sound settings from the ADJUST option are received (see next page).

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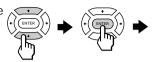
 For details on the options under the PICTURE/SOUND MODE and SURROUND modes, see pages 12 and 20 respectively.

To return to the normal screen Press MENU.

Changing the A/V CONTROL setting (continued)

Adjusting the ADJUST options under PICTURE MODE

Press ♠ or ♥ to select the desired item (e.g., COLOR), then press ENTER.



COLOR IIIIIIIIIIIIIIIIIII 80

9 Adjust the value according to the following table, then press ENTER.

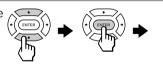
For	Press ♦/ ♦ to	Press ♦ / > to
PICTURE	decrease picture contrast	increase picture contrast
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
HUE*	increase red picture tones increase green picture tones	
SHARP	soften the picture sharpen the picture	
	* You can adjust HUE for the N	NTSC color system only.

Repeat the above steps to adjust other items.

The adjusted settings will be received when you select PERSONAL.

Adjusting the ADJUST options under SOUND MODE

Press ★ or ★ to select the desired item (e.g., BALANCE), then press ENTER.





2 Adjust the value according to the following table, then press ENTER.

For	Press	
BASS	◆/◆ to decrease the bass, ◆/→ to increase the bass	
TREBLE	♦/♦ to decrease the treble, ♦/♦ to increase the treble	
BALANCE		
BBE ♠/♦ to select HIGH, LOW, or OFF. BBE can produce clear sound emphasizing both low and high tones.		

3 Repeat the above steps to adjust other items.

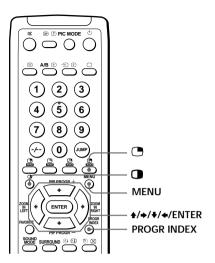
The adjusted settings will be received when you select PERSONAL.

Tip

• For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 25.

Changing the MULTI PICTURE setting

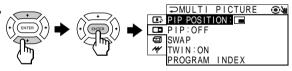
The MULTI PICTURE menu allows you to use the Picture-in-Picture (PIP), TWIN pictures, or PROGRAM INDEX features.



1 Press MENU.



Press ♠ or ♦ to select □, then press ENTER.



Changing the MULTI PICTURE setting (continued)

Press ♠ or ♥ to select the desired option (see the table below), then press ENTER.





Select	То	
PIP POSITION	change the position of the PIP screen. Press ♠ or ♦ to select the desired position, then press ENTER.	
PIP	display the PIP screen within the main picture.	
	Press ♠ or ♦ to select "ON," then press ENTER. To cancel, press o or select "OFF," then press ENTER.	
SWAP	swap the main and PIP screens, or right and left pictures of the TWIN pictures.	
TWIN	display a different TV program or video beside the main picture. Press ♠ or ♦ to select "ON," then press ENTER. To cancel, press or select "OFF," then press ENTER.	
PROGRAM INDEX	view multiple programs on the sub-screens. To cancel, press PROGR INDEX.	

To return to the normal screen

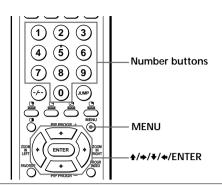
Press MENU.

Tip

· For details on the menu system and how to use the menu, see "Introducing the menu system" on page 25.

Changing the SET UP setting

The SET UP menu allows you to: change the menu language (see page 11), block channels, adjust the picture position, program your favorite channels, and adjust the volume automatically.



1 Press MENU.

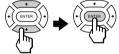


Press ♠ or ♦ to select then press ENTER.

Press ♠ or ♦ to select then press ENTER.

ANGUAGE/### ENGLISH CHILD LOCK: PR01 OFF PIC ROTATION FAVORITE CHILD LIGHT VOL: ON

Press ★ or ▼ to select the desired option, then press ENTER.



Select	То		
LANGUAGE/ 语言	change the menu language (see page 11).		
CHILD LOCK	block channels (see page 32).		
PIC ROTATION	adjust the picture position when it is not aligned with the TV screen. Press ♣ or ♣ to adjust the position clockwise, then press ENTER. Press ♣ or ♣ to adjust the position counterclockwise, then press ENTER. PIC ROTATION □4□1□1□1□1□1□1□1□1□1□1□1□1□1□1□1□1□1□1□		
FAVORITE CH	select your favorite channels (see page 33).		
INTELLIGENT VOL	adjust the volume of each TV program automatically. Press ♠ or ♥ to select "ON," then press ENTER. To cancel, select "OFF," then press ENTER.		

To return to the normal screen

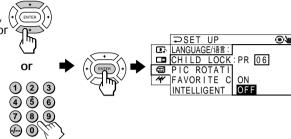
Press MENU.

continued

Changing the SET UP setting (continued)

Blocking the channels (CHILD LOCK)

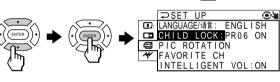
After selecting CHILD LOCK, press either ♠ or ♣, or the number buttons (or PROGR +/-) to select the desired channel, then press ENTER.



Press ♠ or ♥ to select ON, then press ENTER. To unlock the channel. select OFF.

> The lock symbol (\mathbf{A}) appears on the screen when ON is selected.

If a locked channel is selected, the lock symbol appears on the screen.





Repeat steps 1 and 2 to lock other channels.

To return to the normal screen

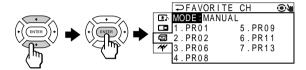
Press MENU.

Changing the favorite channel setting

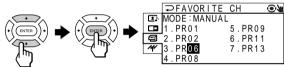
After selecting FAVORITE CH, make sure MODE is selected, then press ENTER.



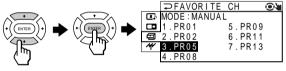
Press ♠ or ♥ to select MANUAL, then press ENTER.



Press ★ or ▼ to select the program you want to change, then press ENTER.



Press ◆ or ◆ to change the number, then press ENTER.



Repeat steps 3 and 4 to set other channels.

To return to the normal screen

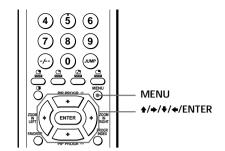
Press MENU.

Note

 If you press the PROGR +/- buttons or number buttons in step 4 above, the TV will tune into the channel.

Changing the CH. **PRESET setting**

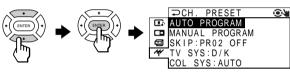
The CH. PRESET menu allows you to adjust the setup of your TV. For example, you can manually tune in a channel with a weak signal that fails to be tuned in by automatic presetting.



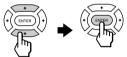
Press MENU.



Press ♠ or ♥ to select #/, then press ENTER.



Press ♠ or ♥ to select the desired option, then press ENTER.



Select	То	
AUTO PROGRAM	preset channels automatically.	
MANUAL PROGRAM	preset channels manually. See "Presetting channels manually" on page 35.	
SKIP	skip unwanted or unused channel. 1 Press either ♠ or ♠, or the number buttons (or PROGR +/-) until the unused or unwanted channel number appears, then press ENTER. 2 Select "ON," then press ENTER. 3 To disable other channels, repeat steps 1 and 2. To restore the skipped channel, select "OFF" in step 2.	
TV SYS	select the TV system.	
COL SYS	select the color system. Normally, set this to "AUTO."	

To return to the normal screen

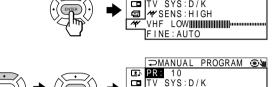
Press MENU.

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• For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 25.

Presetting channels manually

- 1 After selecting MANUAL PROGRAM, select the program number to which you want to preset a channel.
 - (1) Make sure "PR" is selected, then press ENTER.
 - (2) Press ★ or ▼ until the program number you want to preset (e.g., program number 10) appears on the menu, then press ENTER.



⊋MANUAL PROGRAM 🏵 🐿

OMANUAL PROGRAM 💿 🐿

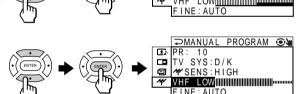
10 SYS:D/K

⊋MANUAL

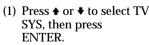
10

Tip

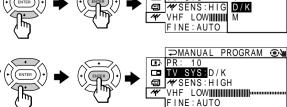
- You can also select the program number with the PROGR +/- or number buttons.
- 2 Select the desired channel.
 - Press ♠ or ♥ to select either VHF LOW, VHF HIGH, or UHF, then press ENTER.
 - (2) Press ★ or ▼ until the desired channel's broadcast appears on the TV screen, then press ENTER.



3 If the sound of the desired channel is abnormal, select the appropriate TV system.



(2) Press ♠ or ♥ until the sound becomes normal, then press ENTER.

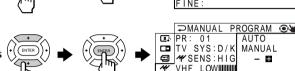


continued

PROGRAM 🗪

Changing the CH. PRESET setting (continued)

- 4 If you are not satisfied with the picture and sound quality, you may be able to improve them by using the FINE tuning feature.
 - (1) Press ★ or ▼ to select FINE, then press ENTER.



PROGRAM 🗪

AUTO SYS: D/K MANUAL

→MANUAL

FINE:

→MANUAL

INE: AUTO

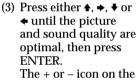
<u>o</u> PR: 10 PROGRAM 🖎

HIGH

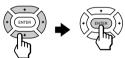
0 1

SENS: HIG

(2) Press ★ or ▼ to select MANUAL, then press (* ENTER.



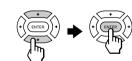
menu flashes while

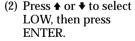


If the TV signal is too strong and the picture is distorted, you can adjust the TV reception sensitivity.

tuning.

(1) Press ♠ or ♥ to select ₩ SENS, then press ENTER.





To return to the normal screen

Press MENU.

Notes

- The TV system (TV SYS) and the TV reception sensitivity (# SENS) settings are memorized for each program number.
- If you preset a locked channel, that channel will be unlocked.

Troubleshooting

If you have any problem while viewing your TV, please check the following troubleshooting guide. If the problem persists, contact your Sony dealer.

		-
Symptom	Solutions	Possible cause
Snowy picture	Check the antenna cable and connection on the TV, VCR, and at the wall. (page 4)	The connection is loose or the cable is damaged.
	Display the CH. PRESET menu and select "MANUAL PROGRAM" to preset the channel again. (page 35)	The channel presetting is inappropriate or incomplete.
Noisy sound	Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.	The antenna type is inappropriate.
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction needs adjustment.
	Try using a booster.	Signal transmission is low.
Distorted picture Noisy sound	Display the CH. PRESET menu and select "MANUAL PROGRAM." Then, select " SENS: LOW." (page 36) Turn off or disconnect the booster if it is in use.	Broadcast signals are too strong.
Roisy sound	 If the sound of all the channels is noisy, display the CH. PRESET menu and select "AUTO PROGRAM" to preset the channels again. (page 34) If the sound of some channels is noisy, select the channel, then display the CH. PRESET menu and select the appropriate TV system (TV SYS). (page 35) 	The TV system setting is inappropriate.
No picture	Check the power cord, antenna, and the VCR connections.	• The power cord, antenna, or VCR is not connected.
No sound	 Press () (power). Press () (main power) on the TV to turn off the TV for about five seconds, then turn it on again. 	• The TV is not turned on.

Troubleshooting (continued)

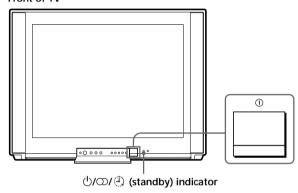
Symptom	Solutions	Possible cause	
Good picture	• Press → + to increase the volume level.	The volume level is too low.	
	• Press on to cancel the muting.	• The sound is muted.	
No sound	Press A/B until better sound is heard.	The broadcast signal has a transmission problem.	
Dotted lines or stripes	 Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	• There is local interference from cars, neon signs, hair dryers, power generators, etc.	
Double images or "ghosts"	Use a highly directional antenna. Use the FINE tuning feature. (page 36)	Broadcast signals are reflected by nearby mountains or buildings.	
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction needs adjustment.	
	• Turn off or disconnect the booster if it is in use.	Use of a booster is inappropriate.	
No color	• Display the A/V CONTROL menu and select "ADJUST" in PICTURE MODE, then adjust the COLOR level. (page 28)	The color level setting is too low.	
	Display the CH. PRESET menu and check the color system (COL SYS) setting (usually set this to AUTO). (page 34)	The color system setting is inappropriate.	
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction needs adjustment.	
Abnormal color patches	Locate external speakers or other equipment away from the TV. Press ① (main power) on the TV to turn off the TV for about five minutes, then turn it on again.	There is magnetic disturbance from external speakers or other equipment.	
TV cannot receive stereo broadcast signal.	• Press A/B 😩 until "AUTO" appears on the screen.	• The stereo reception setting is inappropriate.	

Symptom	Solutions	Possible cause	
Stereo broadcast sound switches on and off or is	Check the antenna cable and connection on the TV, VCR, and on the wall.	The connection is loose or the cable is damaged.	
distorted.	Adjust the antenna direction. Contact a Sony dealer for advice.	• The antenna direction needs adjustment.	
or	• Press A/B 🕏 until better sound is heard. (page 21)	The broadcast signal has a transmission problem.	
The sound switches between stereo and monaural frequently.			
Picture slant	Display the SET UP menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen. (page 31)	Terrestrial magnetism is affecting your TV set.	
Lines moving across the TV screen.	Use the FINE tuning feature. (page 36)	There is interference from external sources (e.g., heavy machinery or a nearby broadcast station, etc.).	
TV cabinet creaks.	_	Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction.	
A small "boom" sound is heard when the TV is turned on.	_	The TV's demagnetizing function is working. This does not indicate a malfunction.	

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the 0/00/3 (standby) indicator flashes red. The number of times the $\bigcirc/\bigcirc/\bigcirc$ indicator flashes indicates the possible causes.

Front of TV

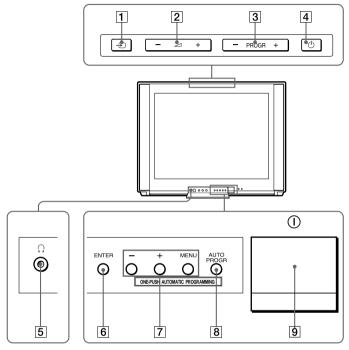


- Check that the red flashes of the 0/00/0 indicator are about 3 seconds per interval.
- Count the number of times the 0/00/0 indicator flashes.
- Press ① (main power) to turn off your TV.
- Inform your nearest Sony service center about the number of times the (¹)/∅/♠ indicator flashed. Be sure to note the model name and serial number located on the rear of your TV.

Identifying parts and controls

Refer to the pages indicated in parentheses () for details.

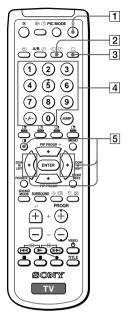
Front panel



- 1 → (TV/video) button (10)
- 2 \(\triangle +/- \) (volume) buttons (10)
- 3 PROGR +/- (program) buttons (9)
- 4 (power) button (9)
- 6 ENTER button (26)
- **7** MENU +/- buttons (26)
- 8 AUTO PROGR (program) button (5)
- 9 (main power) button (9)

Identifying parts and controls (continued)

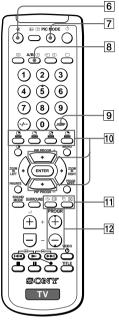
Remote control



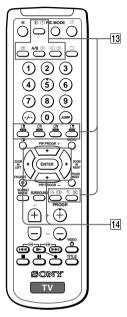
- 1 (power) button (9)
- **2** → (video) button (10)
- **3** □ (TV) button (10)
- 4 Number buttons (9)
- 5 TWIN pictures operation buttons (15 - 16)
 - (TWIN)
 - ZOOM IN LEFT +
 - ZOOM IN RIGHT →

The names/symbols of buttons on the remote are indicated in different colors to represent the available functions

Tunetions.	
Label color	Button function
White	For general TV and PROGRAM INDEX operations
Yellow	For PIP operations



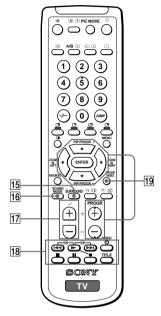
- **6 □** ⟨muting⟩ button (10)
- 7 PIC MODE button (12)
- 8 A/B button (21)
- 9 JUMP button (10)
- 10 PIP operation buttons (15 16)
 - (TV/video)
 - (freeze)
 - (swap)
 - (PIP)
 - **♦/♦**—for changing PIP PROGR
- 11 Timer setting buttons (13)
 - (4) (wake up timer)
 - (4) (sleep timer)
- 12 PROGR +/- (program) buttons (9)



- 13 Teletext operation buttons Not available on this model.
 - (text)
 - (enlarge)
 - ? (reveal)
 - (hold)
 - □ Red
 - ☐ Green
 - ☐ Yellow
 - ☐ Blue
 - (index)

14 FAVORITE button (14)

♦/♦/♦/ENTER



- 15 SURROUND button (20)
- 16 SOUND MODE button (12)
- 17 \(\text{volume} \) +/- buttons (10)
- DVD, VCR, MDP, CD, MD operation buttons (24)
 - ►►I/⊕ (fastforward/search forward)
 - ► (play)
 - Idd /⊕ (rewind/search backward)
 - (record)
 - **■** (stop)
 - **II** (pause)

VIDEO (bower)

TITLE

PROGRAM INDEX operation buttons (17 – 19)

PROGR INDEX

PROGR +/-

Specifications

	KV-EF34M90	Note	
Power requirements	110-240 V AC, 50/60		
Power consumption (W)	Indicated on the rear		
Television system	B/G, I, D/K, M		
Color system	PAL, PAL 60, SECAN		
Stereo system	NICAM Stereo B/G,		
Channel coverage B/G	VHF : E2 to E12 / UHF : E21 to E69 / CATV : S01 to S03, S1 to S41		
1	UHF: B21 to B68 / C		
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 / CATV: S01 to S03, S1 to S41, Z1 to Z39		
М	VHF : A2 to A13 / UHF : A14 to A79/ CATV : A-8 to A-2, A to W+4, W+6 to W+84		
□ Γ(Antenna)	75-ohm external terminal		
Audio output (Speaker)	15W + 15W*		
Number of terminal			
(Video)	Input: 4 Output: 1	phono jacks; 1 Vp-p, 75 ohms	
♪ (Audio)	Input: 4 Output: 1	phono jacks; 500 mVrms	
⊕ (S Video)	Input: 2	Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms	
→ (Component Video)	Input: 1	phono jacks Y: 1.0 Vp-p, 75 ohms, sync negative C _B : 0.7 Vp-p, 75 ohms C _R : 0.7 Vp-p, 75 ohms Audio: 500 mVrms,	
	Output: 1	Stereo minijack	
Picture tube	34 in.		
Tube size (cm)	86		Measured diagonally
Screen size (cm)	80		Measured diagonally
Dimensions (w/h/d, mm)	$859 \times 661 \times 574$		
Mass (kg)	83		

^{* 10%} distortion

Design and specifications are subject to change without notice.