JVC COLOUR TELEVISION

AV-21MS30



EQUALIZER • CINEMA SURROUND • COMPONENT INPUT

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INSTRUCTIONS

Thank you for buying this JVC colour television.

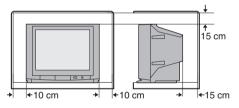
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. CAUTION: TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

- 1 Operate only from the power source indicated on the rear of the TV.
- 2 Avoid damaging the power cord and mains plug. When unplugging the TV, grasp the mains plug. Do not pull on the power cord.
- 3 Never block or cover the ventilation openings.

Never install the TV where good ventilation is unattainable.

When installing this TV, leave spaces for ventilation around the TV of more than the minimum distances as shown.

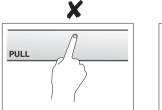


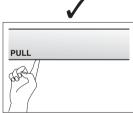
- 4 Do not allow objects or liquid into the cabinet openings.
- 5 In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.
- 6 The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

- 7 If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.
- 8 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: <AV-21M Series>

YOU CAN DETACH THE PROTECT SHEET ON THE TOP AND BOTTOM OF FRONT FRAME IF YOU NEEDED. THE FRONT BUTTON DOOR OF THE TV SHOULD BE PULLED OUT FROM ITS BOTTOM. DO NOT PRESS THE UPPER PART, OR YOUR FINGER MAY BE PINCHED.







Main features

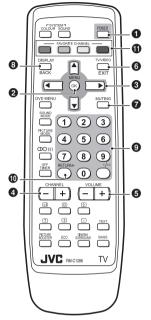
Main leatures			
DVD FUNCTION	Just connect DVD player to the television. The television will detect DVD signal and display picture on the screen automatically and you can adjust pictures and sound while you are watching DVD as your desire.		
A2/NICAM (STEREO / I=II)	You can listen to the stereo sound or bilingual sound from TV programme broadcasting by A2 or NICAM Sound-multiplex system.		
FAVORITE CH (Channel)	You can register up to four favorite channels for quick recall with one press.		
AI ECO	TV detects the brightness of your room and automatically adjust the picture brightness to a suitable level for a better eye care.		
AI VOLUME	TV adjusts the volume automatically to the same level for all TV channels to avoid sudden change of the volume when selecting different TV channel or selecting Video Mode.		
TELETEXT	You can view teletext programmes which are broadcasted by some TV channels. Teletext programme is an information in text form.		
WHITE BALANCE	You can choose one of three tones of white to match to the video source such as movie, sport, etc. Changing White balance affects the appearance of all other colours on the screen.		

Confirm your TV's functions

AV-21MS30 doesn't have PICTURE BOOSTER function and SUPER BASS function. So when you press a button concerned to a function that is not available for your TV, it does not work and the logo " \emptyset " appears on the screen.

Remote control buttons and basic functions

No.	Press	То
0	POWER	Turn on or off the TV from standby mode.
0	MENU/OK	Display menu and confirm selected function.
8	$\blacktriangle / \checkmark / \checkmark / \checkmark / \blacktriangleright$	Select and adjust menu function.
4	CHANNEL -/+	Select the desired channel number.
6	VOLUME -/+	Adjust the volume level.
6	TV/VIDEO	Select TV or video terminal input.
	EXIT	On the other hand, you can use this button to EXIT from the menu.
0	MUTING	Turn off the volume. Press this button again to resume the volume.
8	DISPLAY /BACK	 Display the programme number or video terminal number, stereo/bilingual broadcast system and PR list (channel list) on the screen. You can select the channel using the PR list. 1 Press the DISPLAY button once to display the PR list. 2 Press ▲ / ▼ / ◄ / ► buttons to choose a channel, then press the MENU/OK button. You can confirm the favorite channels in the PR list. The channels set to favorite channels are indicated with coloured mark.
		On the other hand, you can use this button to return to the previous menu.
9	0~9, -/	Select the programme number. For two digits programme number, press -/, then press the number button.
10	RETURN+	 a) Return to the frequently view channel with one touch. 1 Choose the channel you want to register. 2 Press and hold RETURN+ button until "RETURN PLUS PROGRAMMED!" appears. To cancel, press and hold RETURN+ button until "RETURN PLUS CANCELED!" appears. b) Return to the previously viewed channel, if you have not set or have cancelled the Return channel as above.
0	FAVORITE CHANNEL (colour buttons: red, green, yellow, blue)	 Register and recall 4 favorite channels. 1. Choose the TV channel you want to register then press and hold a colour button until "FAVORITE CHANNEL ■ PROGRAMMED!" appears. 2. To register other favorite channels, repeat step 1. To recall the favorite channel, press the colour button. When the TV is in Text function or menu mode, the favorite channel function is not available.



Remote control buttons and basic functions (continued)

То	Operation	Note
Display the MENU	Press the MENU/OK button 2.	To exit the MENU, press the DISPLAY/ BACK button ③ or choose EXIT menu or TV/VIDEO/EXIT button ⑤.
Display the top menu	Press ▲/▼ buttons ③ to choose a menu title. Then press MENU/OK button ②.	
Display the 2nd menu	Press ▲/▼ buttons to choose a menu title. Then press MENU/OK button ②.	
Display the 3rd menu	Press ▲/▼ buttons to choose a menu title. Then press MENU/OK button ②.	
Return to the previous menu	Press the DISPLAY/BACK button 3.	_
Choose the setting of a function	Press ▲/▼ buttons ③ to choose a function. Then press the ◄/► buttons ④ to change the setting.	Press the TV/VIDEO/ EXIT button (b) to exit from the menu.
Adjust the effect level of a function	Press ▲/▼ buttons ③ to choose a function. Then press the ◄/► buttons ④ to adjust the effect level.	
Display the sub menu of a function.	Press the ▲/▼ buttons ③ to choose a function. Then press MENU/OK button ② to display the sub menu.	_

How to operate menus and menus locations

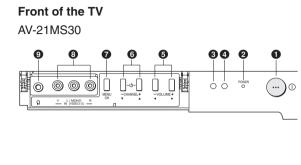
The following chart shows locations of functions in menus. In this manual, location of a function is described as follows:



Note: Some functions have the 4th menus as the sub-menus.

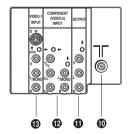
	Top menu	2nd menu	Location	3rd menu	Location
MENU	PICTURE	PICTURE MODE	P.9	-	-
		PICTURE SETTING	P.10	CONTRAST	P.10
				BRIGHT	P.10
				SHARP	P.10
				COLOUR	P.10
				TINT	P.10
		WHITE BALANCE	P.10	-	-
		VNR	P.16	_	-
	SOUND	STEREO/I·II	P.14	-	-
		AI VOLUME	P.14	-	_
		SOUND MODE	P.13	_	-
		EQUALIZER	P.14	-	-
		BALANCE	P.13	-	-
		CINEMA SURROUND	P.14	-	-
	FEATURES	DVD MENU	P.15	AUTO SIGNAL DETECT	P.15
				DVD PICTURE MODE	P.15
				TINT COLOUR	P.15
				WHITE BALANCE	P.15
				SOUND MODE	P.15
				CINEMA SURROUND	P.15
		OFF TIMER	P.16	_	-
		CHILD LOCK	P.16	_	-
		COMPRESS (16:9)	P.11	-	-
		AI ECO SENSOR	P.11	-	-
	INSTALL	SETUP TOUR	P.17	-	-
		AUTO PROGRAM	P.18	-	-
		EDIT/MANUAL	P.18	DELETE, MOVE, MANUAL, INSERT	P.18- P.19
		COLOUR SYSTEM	P.9	-	-
		LANGUAGE	P.16	LANGUAGE	P.16
		TEXT LANGUAGE	P.12	TEXT LANGUAGE	P.12
		VIDEO-2 SETTING	P.17	-	-
		BLUE BACK	P.11	-	-
	EXIT	-	-	-	-

TV buttons and functions



Rear of the TV

AV-21MS30

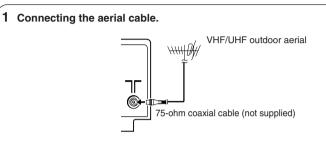


No. Button/terminal		Description	Page
0	① (main power)	Press to turn on or turn off the TV's main power.	-
2	POWER lamp	Indicate the TV is being turned on or off.	-
		No colour : TV's main power is being turned off.	
		Red : TV's main power is being turned on.	
		Note: When you turn off the power switch while TV is in	
		mode, the light of power lamp will be off in 10 -15 seco	nds.
<u> </u>	ECO sensor		-
4	Remote control se	nsor	-
6	VOLUME -/+	Press to adjust the volume level.	-
6	CHANNEL -/+	Press to select the desired channel.	-
0	MENU	Press to display the menu.	-
8	IN (VIDEO-3)	Video and audio input jacks for VIDEO-3 mode.	21
9	ត	Headphone jack.	
0		Aerial socket.	7
0	OUTPUT	Video and audio output jacks. (The component video	21
		signal cannot be output.)	
Ð	COMPONENT	Video or component video, and audio input jacks for	21
	(VIDEO-2) INPUT	VIDEO-2 mode. You can select the input signal by setti	ng
		the "VIDEO-2 SETTING" function (see page 17).	
ß	VIDEO-1 INPUT	Video or S-VIDEO, and audio input jacks for VIDEO-1	7
		mode	
How	to operate the me	enus with the TV button	
TV b	utton Work as	s same as the button on the Note	
		control unit	
MEN	U MENU/	OK button To display main menu	
		menu after finish settir	
	NNEL -/+ ▼/▲ but		
VOL	UME -/+ ⊲/ ► bu	tton To adjust the desired f	unction.

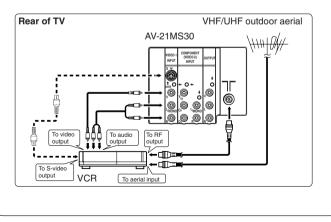
Setting up your TV

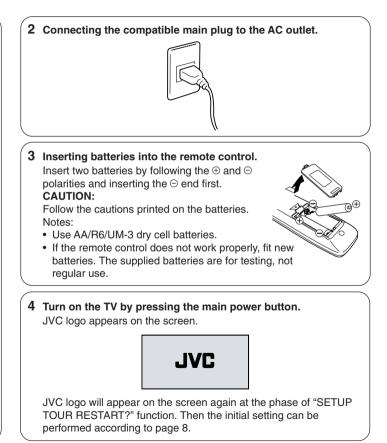
CAUTION

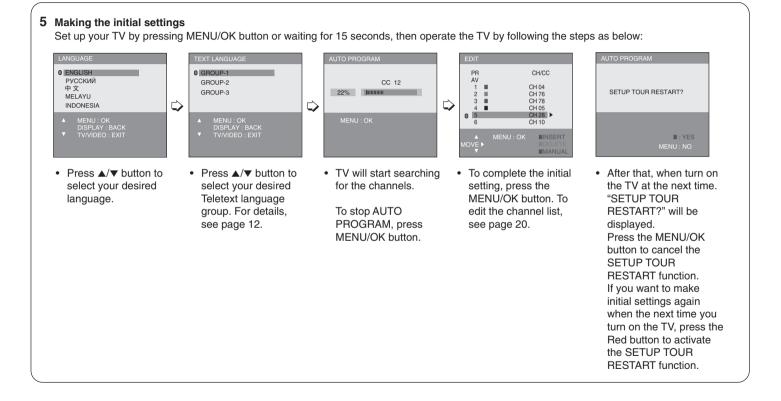
• Turn off the equipment including the TV before connecting.



If you connect a VCR, connect the aerial output jack of your VCR and the aerial jack on the TV with aerial cable. Then connect the output jacks of your VCR and the VIDEO-1 input jacks of the TV with the video cable (or S-VIDEO cable if available) and audio cables. For details, see the manual of your VCR.







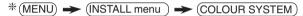
COLOUR SYSTEM

You can select the appropriate colour system when the picture is not clear or no colour appears.

Press the COLOUR SYSTEM button to select a setting.



To operate this function with a menu:



For the colour system in each country or region, see the table below:

Area	Country or Region	System
	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	PAL
Asia, Middle	China, Vietnam, etc.	PAL
East	Hong Kong, etc.	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc.	NTSC
	Russia, etc.	SECAM
Europe	Czech Republic, Poland, etc.	PAL
	Germany, Holland, Belgium, etc.	PAL
	UK, etc.	PAL
Oceania	Australia, New Zealand, etc.	PAL
	Republic of South Africa, etc.	PAL
Africa	Nigeria, etc.	PAL
	Egypt, Morocco, etc.	SECAM

PICTURE MODE

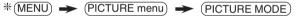
You can choose the desired picture setting with one-touch. Press the PICTURE MODE button to select a setting.

SOFT	Softens contrast and sharpness.
BRIGHT	Heightens contrast and sharpness.
STANDARD	Standard picture setting.
USER	You can change this picture setting as you like. Select USER and adjust following items in the PICTURE SETTING menu. (CONTRAST, BRIGHT, SHARP, COLOUR, TINT*)

When you select to VIDEO-2 Mode. You cannot adjust SHARP and TINT.

*TINT can only be adjusted in NTSC system.

To operate this function with a menu:



To return the USER setting to the default, press the blue button when the PICTURE SETTING menu appears.

PICTURE SETTING

You can adjust the desired picture setting when selecting USER in PICTURE MODE.

1 Select the USER in PICTURE MODE under PICTURE menu.

★ (MENU) → (PICTURE menu) → (PICTURE MODE)
→ (USER)

2 Select the PICTURE SETTING in PICTURE menu, then adjust the setting.

* (MENU) 🔶	(PICTURE menu) -	(PICTURE SETTING)
CONTRAST	 Lower contrast 	► : Higher contrast
BRIGHT	 Darker 	► : Brighter
SHARP	 Softer 	► : Higher
COLOUR	 Lighter 	► : Deeper
TINT*	 Reddish 	► : Greenish

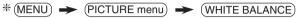
When you select to VIDEO-2 Mode. You cannot adjust SHARP and TINT.

* TINT can only be adjusted in NTSC system.

WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed.

Select the WHITE BALANCE in the PICTURE menu, then choose the desired setting.



NORMAL	Normal white balance.
COOL	Bluish white.
WARM	Reddish white.

When you select to VIDEO-2. You cannot adjust WHITE BALANCE. You can adjust it in DVD Menu.

AI ECO SENSOR (ECO)

You can adjust TV screen contrast according to the brightness of your room.

Press the ECO button to select the desired mode.

OFF	Cancel the function.		
MODE-1	Mild contrast (recommended).		
MODE-2	Even contrast.		
DISPLAY	Display the graphic of the function.		
To operate this function with a manue			

To operate this function with a menu:

*(MENU) -	(FEATURES menu)	\rightarrow	(AI ECO SENSOR)
-----------	-----------------	---------------	-----------------

BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an antenna.

Select the BLUE BACK in the INSTALL menu, then choose ON or OFF.

* (MENU) → (INSTALL menu) → (BLUE BACK)

If you wish to continue viewing the poor picture, cancel the BLUE BACK function.

 \ast About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

COMPRESS (16:9)

You can convert a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).

Select the COMPRESS (16:9) in the FEATURES menu, then choose ON or OFF.

*(MENU) → (FEATURES menu) → (COMPRESS (16:9))

TELETEXT

You can watch the Teletext broadcast channel with TEXT function.

1 Press the TEXT button to select the desired mode as follows:

--> TV mode ----> TEXT twin mode ---> TEXT mode --->

- 2 Press the CHANNEL -/+ buttons, number buttons or colour buttons to select other Teletext pages.
- **3** Press TEXT or TV/VIDEO button to return to TV mode.

You can also operate the teletext using the following buttons:

(Hold)	Hold a teletext page.	
_	The $(=)$ (Hold) are displayed at the top left of the screen.	
	To cancel, press 🔄 (Hold) button again.	
(Reveal)	Display the hidden text (e.g. answers to a quiz).	
	To cancel, press 🕐 (Reveal) button again.	
🗘 (Size)	Enlarge the teletext display.	
∃i (Index)	Return to the index page instantly.	
(Cancel)	Watch TV programme while waiting for a teletext page.	
0	When the teletext page is found, a page number	
	appears at the upper left of the screen.	
	Press $igodot$ (Cancel) to view the teletext page.	
(Sub-page)	Operate the 🕘 (Sub-page) function.	
-	Sub-page numbers are displayed at the left of the	
	screen.	
	To cancel sub-page function, press 🕑 (Sub-page)	
	button again.	

TEXT LANGUAGE

You can set the Teletext language group that corresponds to the programmes.

Select TEXT LANGUAGE in the INSTALL menu, then choose the desired language group.

*(MENU) →	► (INSTALL menu) → (TEXT LANGUAGE)
GROUP-1	English, German, Swedish / Finnish / Danish / Hungarian, Italian, French, Spanish / Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech / Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian
Depending or	the broadcast, the language set may not display

Depending on the broadcast, the language set may not display properly. For details, see in page 8.

SOUND SYSTEM

You can select an appropriate sound system when abnormal sound occurs even when the picture appears normally. Press the SOUND SYSTEM button to select a setting.

 $B/G \twoheadrightarrow I \twoheadrightarrow D/K \twoheadrightarrow M$

This function is not available in video mode.

For the sound system in each country or region, see the table below:

Area	Country or Region	System
	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	B/G
Asia, Middle	China, Vietnam, etc.	D/K
East	Hong Kong, etc.	1
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	B/G
	Philippines, Taiwan, Myanmar, etc.	Μ
Europe	Russia, etc.	D/K
	Czech Republic, Poland, etc.	D/K
	Germany, Holland, Belgium, etc.	B/G
	UK, etc.	1
Oceania	Australia, New Zealand, etc.	B/G
	Republic of South Africa, etc.	1
Africa	Nigeria, etc.	B/G
	Egypt, Morocco, etc.	B/G

SOUND MODE

You can choose the desired sound setting.

Select the SOUND MODE in SOUND menu, then choose the setting.

* (MENU) →	(SOUND menu) → (SOUND MODE)	
USER	You can change this sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (100, 300, 1K, 3K, 8K Hz). For details, see "EQUALIZER" on page 14.	
SOUND TURBO	Emphasize on low and high frequency levels.	
THEATER	Emphasize on movie sound.	
MUSIC	Emphasize on music effect.	
NEWS	Emphasize on vocal sound.	

When you select to VIDEO-2. You cannot adjust SOUND MODE function. You can adjust it in DVD Menu.

BALANCE

You can adjust the volume balance between the left and right speakers.

Select the BALANCE in SOUND menu, then adjust the setting.

 $*(MENU) \rightarrow (SOUND menu) \rightarrow (BALANCE)$

CINEMA SURROUND

You can enjoy an enhanced sound for wider audience. Press the CINEMA SURROUND button to select a setting.

OFF	Cancel the function.
ON	Listen to sound with wider audience effect.

This function is not available when the SOUND MODE is set to SOUND TURBO.

To operate this function with a menu:

*(MENU) → (SOUND menu) → (CINEMA SURROUND)

When you select to VIDEO-2. You cannot adjust CINEMA SURROUND function. You can adjust it in DVD Menu.

STEREO / I-II (OOI/II)

You can enjoy the stereo and bilingual broadcasted programmes.

Press the OOI/II button to select the desired mode.

0	Select stereo sound.	
0	Select monaural sound.	
I	Select bilingual I (sub I).	
Π	Select bilingual II (sub II).	

This function is not available in video mode. To operate this function with a menu:

*(MENU) -(SOUND menu) (STEREO / I-II) \rightarrow

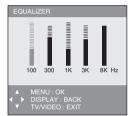
EQUALIZER

You can adjust the sound level of each frequencies when selecting USER mode in SOUND MODE.

- 1 Select the USER in SOUND MODE under SOUND menu.
 - * (MENU) → (SOUND menu) → (SOUND MODE) → (USER)
- **2** Select the EQUALIZER in SOUND menu.

* (MENU) → (SOUND menu) → (EQUALIZER)

The following display appears.



3 Select and adjust the desired frequencies.

4 Press the MENU/OK button to exit the menu.

Adjust high frequency will affect higher pitch sound and vice versa.

AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically depends on the strength of signal of the sources.

Select the AI VOLUME in SOUND menu, then choose ON or OFF.

*(MENU) → (SOUND menu) → (AI VOLUME)

AUTO SIGNAL DETECT

When the DVD input signal is detected. The input mode will be changed to VIDEO-2 automatically.

For The DVD player, press the "POWER ON" button of the machine so that the signal can be detected.

For the VCR, press the "POWER ON" button of the machine, and then press the "PLAY" button, so that the signal can be detected and display DVD menu.

Select the AUTO SIGNAL DETECT in DVD MENU under FEATURES menu then choose ON or OFF (Factory setting is ON).

★(MENU) → (FEATURES menu) → (DVD MENU)

→ (AUTO SIGNAL DETECT)

DVD PICTURE MODE

You can enhance the picture quality of the DVD or VIDEO-2. Select the DVD PICTURE MODE in DVD MENU under FEATURES menu, then choose the desired setting.

★(MENU) → (FEATURES menu) → (DVD MENU) (DVD PICTURE MODE)

OFF	Cancel the function.		
	Coloct when the disc is with lo		

- Select when the disc is with lots of noise (To soften the picture). CLEAR-1
- CLEAR-2 Select when the disc is with less noise (To sharpen the picture).

TINT COLOUR

You can adjust the picture colour tone of the DVD.

Select the TINT COLOUR in DVD MENU under FEATURES menu, then adjust the level.

*(MENU) → (FEATURES menu) → (DVD MENU)

WHITE BALANCE

You can change the white balance of the DVD picture. Select the WHITE BALANCE in DVD MENU under FEATURES menu. then choose the desired setting.

*(MENU) → (FEATURES menu)

DVD MENU

→ (WHITE BALANCE)

For details, see "WHITE BALANCE" on page 10.

SOUND MODE

You can choose the desired sound setting for the DVD. Select the SOUND MODE in DVD MENU under FEATURES menu. then choose the desired setting.

★(MENU) → (FEATURES menu)

→ (DVD MENU)

→ (SOUND MODE)

For details, see "SOUND MODE" on page 13.

CINEMA SURROUND

You can enjoy an enhanced sound for the DVD.

Select the CINEMA SURROUND in DVD MENU under FEATURES menu, then choose the desired setting.

★(MENU) → (FEATURES menu) → (DVD MENU)

→ (CINEMA SURROUND)

For details, see "CINEMA SURROUND" on page 14. This function is not available when the SOUND MODE is set to SOUND TURBO.

- ** When you use VIDEO-2 to display the DVD signal or Video signal then WHITE BALANCE, VNR function in PICTURE menu/SHARP, TINT function in PICTURE SETTING menu/ SOUND MODE, CINEMA SURROUND function in SOUND menu cannot operate.
- * About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5. 15

Customized setting

VNR

You can reduce the picture noise.

Select the VNR in the PICTURE menu, then choose a setting of VNR function.

* MENU	\rightarrow	(PICTURE menu)	→	(VNR)
--------	---------------	----------------	---	-------

OFF	VNR is turned off.	
AUTO	Effect of VNR is automatically controlled.	
MIN	Effect of VNR becomes minimum level.	
MAX	Effect of VNR becomes maximum level.	

If you select MAX, the picture becomes softer even if the original picture is sharp.

When you select to VIDEO-2. You cannot adjust VNR function.

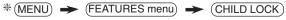
LANGUAGE

You can choose your desired on screen display language. Select the LANGUAGE in the INSTALL menu, then choose a language.

* (MENU) → (INSTALL menu) → (LANGUAGE)

CHILD LOCK

You can disable the front control buttons of the TV. Select the CHILD LOCK in the FEATURES menu, then choose ON or OFF.



OFF TIMER

You can set the TV to turn off automatically to standby mode after a set time.

Press the OFF TIMER button to select a desired period of time.



You can set the period of time to a maximum of 120 minutes in 10 minutes step.

To operate this function with a menu:

* (MENU) → (FEATURES menu) → (OFF TIMER)

When the elapsed of time left one minute, "GOOD NIGHT!" appears on the screen.

You can display the OFF TIMER menu again to confirm or change the remaining time.

VIDEO-2 SETTING

You can set the VIDEO-2 SETTING according to the video signal output from the external devices connected to the VIDEO-2 terminal.

Select the VIDEO-2 SETTING in INSTALL menu, then choose a setting (Factory setting is COMPONENT).

* (MENU) → (INSTALL menu) → (VIDEO-2 SETTING)

VIDEO	If a normal video signal (composite video signal) is input.
COMPONENT	If a component video signal (Y/CB/CR) is input.

You must choose a setting follow as signal that you input to VIDEO-2. (If you input the VIDEO Signal or VCR Signal to VIDEO-2, you must choose VIDEO-2 SETTING to VIDEO.)

For connecting methods, see "Additional Preparation" on page 21.

SETUP TOUR

You may use the SETUP TOUR function to perform the initial setting. When selecting SETUP TOUR, the LANGUAGE menu, TEXT LANGUAGE menu, AUTO PROGRAM menu, and EDIT menu will be displayed as shown on page 8. But "SETUP TOUR RESTART?" will not be displayed.

Select SETUP TOUR in the INSTALL menu.

* (MENU) → (INSTALL menu) → (SETUP TOUR)

DISPLAY

You can display the programme number, video terminal number and PR list on the screen.

Press the DISPLAY button to select the desired mode:

→ ON → OFF → PR LIST →

Choose a TV channel or a VIDEO terminal.

- **1** Press the DISPLAY button to display the PR LIST.
- 2 Select a programme number or video terminal by pressing the ▲/▼ button to move up/down on the programme number or press the </>
 </>

 → button to skip for each 7 programme numbers, then press MENU/OK button.

PR LIST		
PR	CH/CC	
V1		
V2		
V3		
AV		
0 1	CH 09	
2 🔳	CC 76	
3 🔳	CC 78	
▲ ME	NU : OK	
-7 () +7		
▼		

To register the TV channels automatically (AUTO PROGRAM)

You can register the TV channels into the TV's channel list automatically.

1 Display the INSTALL menu.

* (MENU) → (INSTALL menu)

2 Choose AUTO PROGRAM, then press the MENU/OK button. AUTO PROGRAM function starts, and the channels received are registered in the channel list (PR LIST) automatically.

3 The EDIT menu appears.

To edit the channel list	Proceed to the Step 3 of "To edit the channel list (PR LIST)" on page 19.
If a channel is not registered	Proceed to the Step 3 of "To register the TV channels manually" on this page.
To exit the menu	Press the MENU/OK button.

To register the TV channels manually (MANUAL in the EDIT menu)

You can register the TV channels into the TV's channel list manually.

1 Display the INSTALL menu.

* (MENU) - (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button. EDIT menu appears.



- **3** Choose the channel which you want to register.
- **4** Press the blue button to activate the MANUAL function. The sound system of the channel appears at the right of the CH/CC number.
- 5 Press the ► button to choose an appropriate sound system. For details, see "SOUND SYSTEM" on page 13.
- **6** Press the green or red button to search for the TV channel. Searching stops when a channel is found and displayed.
- 7 Repeat step 5 until your desired TV channel appears.

If the reception is poor	Press the blue or yellow button to fine tune the TV channel.
If noisy sound is heard	Press the ► button to choose an appropriate sound system.

- **8** Press the MENU/OK button to exit the menu.
- * About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

To edit the channel list (PR LIST) (MOVE and DELETE in the EDIT menu)

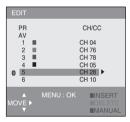
You can edit the TV channel list as you like.

Note: After this operation, other channel's PR numbers will be changed.

1 Display the INSTALL menu.

* (MENU) 🔶 (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button. EDIT menu appears.



- **3** Choose the channel which you want to change PR number, or delete.
- 4 Do the following action:

To change the PR number (MOVE)	Press the ► button. Then move it to the PR number you want to use it for the channel. Finally press the ◄ button.
To delete the channel (DELETE)	Press the yellow button.

5 Press the MENU/OK button to exit the menu.

To add in the new channel (INSERT in the EDIT menu)

You can add in the new channel in the TV channel list as you like. You need to find the "CH/CC" number for the TV channel. Find the "CH/CC" number corresponding to the channel number of the TV channel from the attached sheet "CH/CC number list" on page 20.

1 Display the INSTALL menu.

* (MENU) → (INSTALL menu)

- **2** Choose EDIT/MANUAL, then press the MENU/OK button. EDIT menu appears.
- **3** Choose the PR number for which you will register a new TV channel. When you add a new TV channel of NTSC-M system, press the SOUND SYSTEM button to change the sound system to M. Then proceed to the next step.
- 4 Press the green button, then press ► buttons to choose "CC" or "CH".
- **5** Press the number button to enter the remaining CH/CC number.

The TV starts to search the TV channel, and the picture of the TV channel appears. If the TV finds no TV channel, a noisy picture appears.

When a TV channel has already been registered in PR99, using the INSERT function deletes that TV channel.

TV channel presetting (continued)

CH/CC number

When you want to use the INSERT function on page 19, find the CH/CC number corresponding to the channel number of the TV channel from this table.

Channel No.	Country
US	United States, Philippines, etc
CCIR	Middle East, Southeast Asia,
	etc
OIRT	Eastern Europe, Russia,
	Vietnam, etc
AUSTRALIA	Australia, etc

Channel

СН	US	CCIR	OIRT	AUSTRALIA
CH 02	US-2	E2	R1	AU-0
CH 03	US-3	E3		AU-1
CH 04	US-4	E4	R2	AU-2
CH 05	US-5	E5	R6	AU-6
CH 06	US-6	E6	B7	AU-7
CH 07	US-7	E7	R8	AU-8
CH 08	US-8	E8	R9	AU-9
CH 09	US-9	E9		
CH 10	US-10	E10	R10	AU-10
CH 11	US-11	E11	R11	AU-11
CH 12	US-12	E12	R12	
CH 13	US-13			
CH 14	US-14, W+29			
CH 15	US-15, W+30			
CH 16	US-16, W+31			
CH 17	US-17, W+32			
CH 18	US-18, W+33			
CH 19	US-19, W+34			
CH 20	US-20, W+35			
CH 21	US-21, W+36	E21		
CH 22	US-22, W+37	E22		
CH 23	US-23, W+38	E23		
CH 24	US-24, W+39	E24		
CH 25	US-25, W+40	E25		
CH 26	US-26, W+41	E26		
CH 27	US-27, W+42	E27		
CH 28	US-28, W+43	E28		AU-28
CH 29	US-29, W+44	E29		AU-29
CH 30	US-30, W+45	E30		AU-30
CH 31	US-31, W+46	E31		AU-31/AU-32
CH 32	US-32, W+47	E32		AU-33

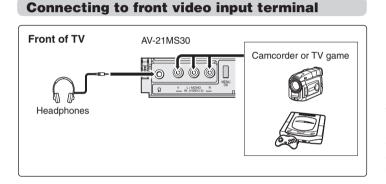
CH	US	CCIR	OIRT	AUSTRALIA
CH 33	US-33, W+48	E33		AU-34
CH 34	US-34, W+49	E34		AU-35
CH 35	US-35, W+50	E35		AU-36
CH 36	US-36, W+51	E36		AU-37
CH 37	US-37, W+52	E37		AU-38
CH 38	US-38, W+53	E38		AU-39/AU-40
CH 39	US-39, W+54	E39		AU-41
CH 40	US-40, W+55	E40		AU-42
CH 41	US-41, W+56	E41		AU-43
CH 42	US-42, W+57	E42		AU-44
CH 43	US-43, W+58	E43		AU-45
CH 44	US-44, W+59	E44		AU-46
CH 45	US-45, W+60	E45		AU-47/AU-48
CH 46	US-46, W+61	E46		AU-49
CH 47	US-47, W+62	E47		AU-50
CH 48	US-48, W+63	E48		AU-51
CH 49	US-49, W+64	E49		AU-52
CH 50	US-50, W+65	E50		AU-53
CH 51	US-51, W+66	E51		AU-54
CH 52	US-52, W+67	E52		AU-55/AU-56
CH 53	US-53, W+68	E53		AU-57
CH 54	US-54, W+69	E54		AU-58
CH 55	US-55, W+70	E55		AU-59
CH 56	US-56, W+71	E56		AU-60
CH 57	US-57, W+72	E57		AU-61
CH 58	US-58, W+73	E58		AU-62
CH 59	US-59, W+74	E59		AU-63/AU-64
CH 60	US-60, W+75	E60		AU-65
CH 61	US-61, W+76	E61		AU-66
CH 62	US-62, W+77	E62		AU-67
CH 63	US-63, W+78	E63		AU-68
CH 64	US-64, W+79	E64		AU-69
CH 65	US-65, W+80	E65		
CH 66	US-66, W+81	E66		
CH 67	US-67, W+82	E67		
CH 68	US-68, W+83	E68		
CH 69	US-69, W+84	E69		

CC	US	CCIR	OIRT	AUSTRALIA
CC 01		S-1		AU-5
CC 02		S-2		
CC 03		S-3		
CC 04		S-4		
CC 05		S-5		
CC 06		S-6		AU-5A
CC 07		S-7		
CC 08		S-8		
CC 09		S-9		
CC 10		S-10		
CC 11		S-11		
CC 12		S-12		
CC 13		S-13		
CC 14	A	S-14		
CC 15	В	S-15		
CC 16	C	S-16		
CC 17	D	S-17		

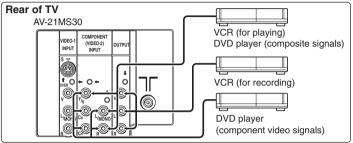
CC	US	CCIR	OIRT	AUSTRALIA
CC 18	E	S-18		
CC 19	F	S-19		
CC 20	G	S-20		
CC 21	Н	S-21		
CC 22		S-22		
CC 23	J	S-23		
CC 24	ĸ	S-24		
CC 25	1	S-25	-	-
CC 26	M	S-26		
CC 27	N	S-27		-
CC 28	0	S-28		
CC 29	P	S-29		-
CC 30	Q	S-30		
CC 31	R	S-31		
CC 32	S	S-32		
CC 33		S-33	-	-
CC 33	U	S-34	1	-
CC 35	V V	S-35	1	-
CC 35	Ŵ	S-36	1	+
CC 37	W+1	S-37	-	-
CC 38	W+2	S-38		-
CC 39	W+2 W+3	S-39	-	-
CC 40	W+3 W+4	S-40		-
CC 40	W+5	S-41		
CC 42	W+6	0.41		
CC 43	W+7			
CC 43	W+8			
CC 45	W+9			
CC 46	W+10		-	-
CC 40 CC 47	W+10 W+11			-
CC 48	W+12			-
CC 49	W+12 W+13			
CC 50	W+13 W+14			
CC 50 CC 51	W+14 W+15			_
CC 51 CC 52	W+15 W+16			
CC 52	W+16 W+17			
CC 53	W+17 W+18			-
CC 54 CC 55	W+18 W+19			_
CC 55 CC 56	W+19 W+20			
CC 56 CC 57	W+20 W+21			-
CC 58	W+21 W+22			
CC 58 CC 59	W+22 W+23		-	-
			-	
CC 60 CC 61	W+24 W+25	-	+	+
				-
CC 62	W+26		-	+
CC 63	W+27			
CC 64	W+28			
CC 75		X	- D0	
CC 76		Y	R3	411.0
CC 77		Z	R4 85	AU-3
CC 78		Z+1	H5	ALL :
CC 79		Z+2		AU-4
CC 95	A-5			
CC 96	A-4			
CC 97	A-3			
CC 98	A-2			
CC 99	A-1	1	1	1

Before connecting

- Read the manuals provided with the devices for the proper connection.
- Turn off all the devices including the TV.
- Note that connecting cables are not supplied.



Connecting to rear component/video input terminal and output terminal



When you use VIDEO-1 INPUT, you should choose to connect S-VIDEO or video input. If S-VIDEO connector and video input are connected at the same time, no picture displays on the screen and the message "PLEASE DISCONNECT VIDEO-1 CABLE!" appears. In this case, you should disconnect either S-VIDEO or video input.

When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (see page 17). If a problem occurs when you are using the TV, check the below troubleshooting guide before calling for repair.

No picture, no sound	 Deactivate the BLUE BACK function if it is turned on. Choose the appropriate sound system. Refer to "SOUND SYSTEM" on page 13. 	 Colour patches appear at the corner of the screen 	This may due to the magnetized device such as a speaker near to your TV. Keep the device apart from your TV. Alternately, you can also use the magnetic-shielded speaker.	
Snowy picture	Check the aerial cable and its connection with the TV.	 Image takes a short period to be displayed 	Image required time to stabilize before display. This is not a malfunction.	
 Stripes appear on the picture 	 Interference occurs caused by other devices such as an amplifier, personal computer, or a hair drier. Move such devices away from your TV. 	• TV may emitted crackling sound	This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.	
 Double-pictures (ghosting) occur 	Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial's direction or use a better directionality antenna.	Feel a slight electric shock when touching the TV screen	This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.	
Poor picture	 Choose the appropriate colour system. Refer to "COLOUR SYSTEM" on page 9. Adjust the COLOUR or BRIGHT setting. Refer to "PICTURE SETTING" on page 10. 	signal to VIDEO-2 and	Please check that the AUTO SIGNAL DETECT function is on or off. Press button (VCR or DVD Player) to turn the machine off and turn it on again; do not turn the	
• White and bright still image look as if it were coloured	Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.	does not work.	machine off and on suddenly.Inspect the video cable connection on VIDEO-2 that they are connected properly.	
 Top of the image from software products or video tape is distorted 	whereby the image was not recorded properly. This	another channel that is not VIDEO-2, AUTO	Inspect the video cable connection on VIDEO-2 that they are connected properly. In a certain VCR or DVD Player, the function might	
 Poor sound 	Adjust the sound frequency properly. Refer to "EQUALIZER" on page 14.	SIGNAL DETECT works while VCR or DVD Player was on.	operate by the discontinuity of the signal.	
 Stereo or bilingual sound is unclear 	• TV channel reception is poor. Change the stereo/ bilingual mode to mono sound (see page 14).		In a certain VCR or DVD Player, the function might operate by the discontinuity of the signal.	
Cannot operate the remote control	 The batteries may be exhausted. Replace with new batteries (see page 7). Ensure that you are operating the remote less than seven meters from the front of your TV. 	channels, AUTO SIGNAL DETECT works when you press ◄◄, ■, ►, ►► or u on the front panel of	operate by the discontinuity of the signal.	
 Cannot operate the menus 	 Press TV/VIDEO button to return to TV mode and try operating the menus. 	VCR or DVD Player.	Video signal from VCR or DVD Player cause the	
Cannot operate the front control buttons	• Deactivate the CHILD LOCK function if it is turned on (see page 16).	SIGNAL DETECT works.	function runs properly to indicate that there are video signal on VIDEO-2 channel.	

Specifications

TV RF systems

B, G, I, D, K, M

Colour systems

PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz

Receiving channels

VHF low channel (VL), VHF high channel (VH), UHF channel (U) Receives cable channels in mid band, super band and hyper band.

Power requirements

AC 110 to 240 V, 50 Hz / 60 Hz

External input / output

VIDEO-1:	S-video input, VIDEO input, AUDIO L/R input
VIDEO-2/COMPONENT:	VIDEO input, AUDIO L/R input, COMPONENT VIDEO (Y/CB/CR) input
VIDEO-3:	VIDEO input, AUDIO L/R input
OUTPUT:	VIDEO output, AUDIO L/R output
Headphone jack:	Stereo mini jack (3.5 mm diameter)

Sound-multiplex systems

A2 (B/G) or NICAM (B/G, I, D/K)

Teletext system

FLOF (Fastext), WST (World Standard Text)

Language displayed by teletext

Please see the table in the description "TEXT LANGUAGE" on page 12.

Design and specifications subject to change without notice.

JVC