

Trinitron Color TV

Operating Instructions






GB

- Before operating the unit, please read this manual thoroughly and retain it for future reference.

WEGA

KV-FA21





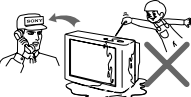

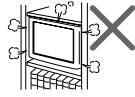

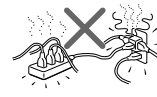
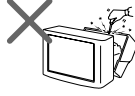
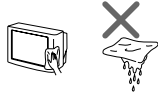
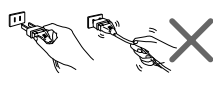
A Specifications

	KV-FA21N63	Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	NTSC3.58, PAL*, PAL 60*, SECAM*, NTSC4.43*	* AV IN only
Stereo/Bilingual system	MTS	
Channel coverage	VHF : 2 to 13 /UHF : 14 to 69 /CATV : 1 to 125	
⌚ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	5 W + 5 W + 5 W	
3D Woofer	15 W	
Number of terminal		
 (Video)	Input: 2 Output: 1 Phono jacks; 1 Vp-p, 75 ohms	
 (Audio)	Input: 3 Output: 1 Phono jacks; 500 mVrms	
 (S Video)	Input: 1 Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms	
 (Component Video)	Input: 1 Phono jacks; Y: 1 Vp-p, 75 ohms, sync negative C _B : 0.7 Vp-p, 75 ohms C _R : 0.7 Vp-p, 75 ohms	
 (Headphone)	Output: 1 Stereo minijack	
FM Radio		
Tuning Range	87.5 - 108.0 MHz	
Intermediate Frequency	7.9 MHz	
Picture tube	21 in.	
Tube size	545 mm	Measured diagonally
Viewing screen size	507 mm	Measured diagonally
Dimensions (w/h/d)	641 × 594 × 507 mm	
Mass	29 kg	

Design and specifications are subject to change without notice.

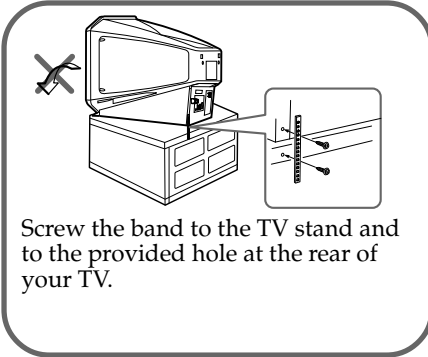
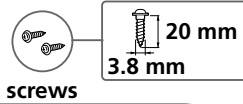
B WARNING

- Dangerously high voltages are present inside the TV.
- TV operating voltage: 110 – 240 V AC.
- Do not plug in the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.
- To avoid battery leakage and damage to the remote, remove the batteries from the remote if you are not going to use it for several days. If any liquid leaks from the batteries and touches your skin, immediately wash it away with water.

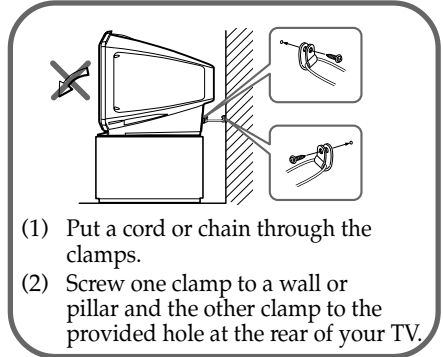
 <p>For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.</p>	 <p>For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.</p>	 <p>To prevent fire or shock hazard, do not expose the TV to rain or moisture.</p>
 <p>Do not place any objects on the TV. 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.</p>	 <p>Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.</p>	 <p>Install the TV on a stable TV stand and floor which can support the TV set weight. Ensure that the TV stand surface is flat and its area is larger than the bottom area of the TV.</p>
 <p>Do not block the ventilation openings of the TV. Do not install the TV in a confined space, such as a bookcase or built-in cabinet.</p>	 <p>Your TV is recommended for home use only. Do not use the TV in any vehicle or where it may be subject to excessive dust, heat, moisture or vibrations.</p>	 <p>Do not plug in too many appliances to the same power socket. Do not damage the power cord.</p>
 <p>Do not open the cabinet and the rear cover of the TV as high voltages and other hazards are present inside the TV. Refer servicing and disposal of the TV to qualified personnel.</p>	 <p>Clean the TV with a dry and soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not attach anything (e.g., adhesive tape, cellophane tape, glue) on the painted cabinet of the TV. Do not scratch the picture tube.</p>	 <p>Pull the power cord out by the plug. Do not pull the power cord itself. Even if your TV is turned off, it is still connected to the AC power source (mains) as long as the power cord is plugged in. Unplug the TV before moving it or if you are not going to use it for several days.</p>

C Securing the TV

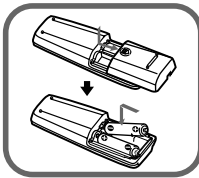
To prevent the TV from falling, use the supplied screws, clamps and band to secure the TV. Use only the supplied screws. Use of other screws may damage the TV.



or

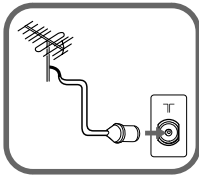


D Getting Started



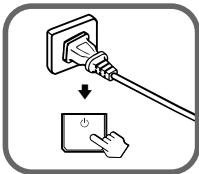
Insert the batteries (supplied) into the remote.

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



Connect the antenna cable (not supplied) to Υ (antenna input) at the rear of the TV.

- ⚠: • Your TV can receive both TV and FM radio signals from the appropriate connections through the Υ (antenna input) terminal (see **G**).
- You can also connect your TV to other optional components (see **G**).



Plug in the power cord, then press ⏻ on the TV to turn it on.

⚠: • The ⏻ (standby) indicator flashes green for a few seconds when turning on the TV. This does not indicate a malfunction.



Set up the TV by following the instructions of the “Initial Setup” menu (see **E**).

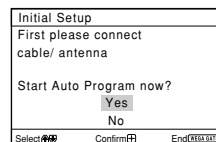
Setting up your TV (“Initial Setup”)

When you turn on your TV for the first time, the “Initial Setup” menu will appear. You can adjust settings below using the buttons on the remote control or TV front panel. Press **↑**, **↓**, **←** or **→** to select or adjust items, then press **↵**.

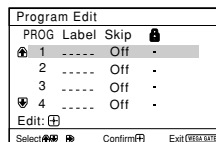
- 1 Select the desired menu language.



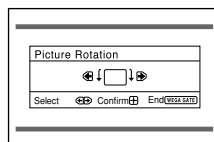
- 2 Select “Yes” to preset the channels automatically.
To skip automatic channel presetting, select “No”.



- 3 The “Program Edit” menu enables you to edit the channels (see **N**).

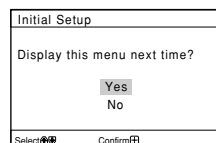



- 4 Adjust the bars on the top and bottom of the menu if they are slanted.



- 5 To prevent this “Initial Setup” menu from appearing again when you turn on the TV by pressing **⏻**, select “No”.

To allow this menu to appear again, select “Yes”.

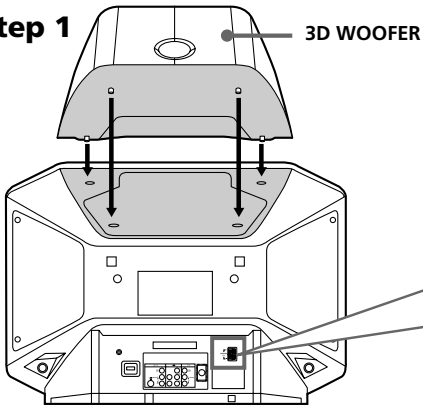


-  You can immediately go to the end of the “Initial Setup” menu by pressing WEGA GATE.

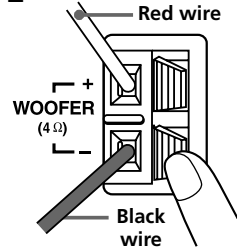
F 3D WOOFER

You can enjoy high quality sound by connecting the 3D WOOFER as follows:

Step 1



Step 2

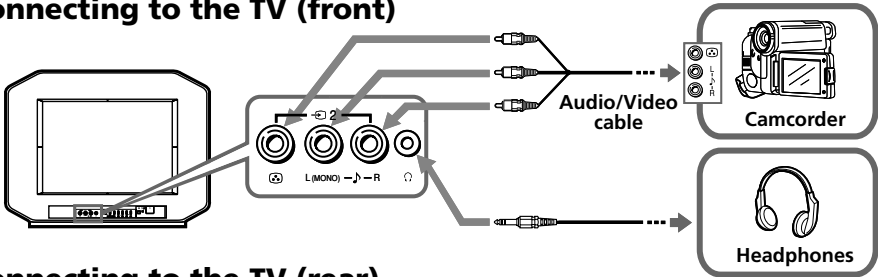


- ⚠:
- Connect only the supplied 3D WOOFER; otherwise your TV may malfunction.
 - Unplug your TV from the wall outlet when connecting the 3D WOOFER.
 - To prevent a malfunction caused by a short circuit of the terminals, make sure that none of the 3D WOOFER wire strands stick out, making contact with the neighbouring 3D WOOFER terminal.

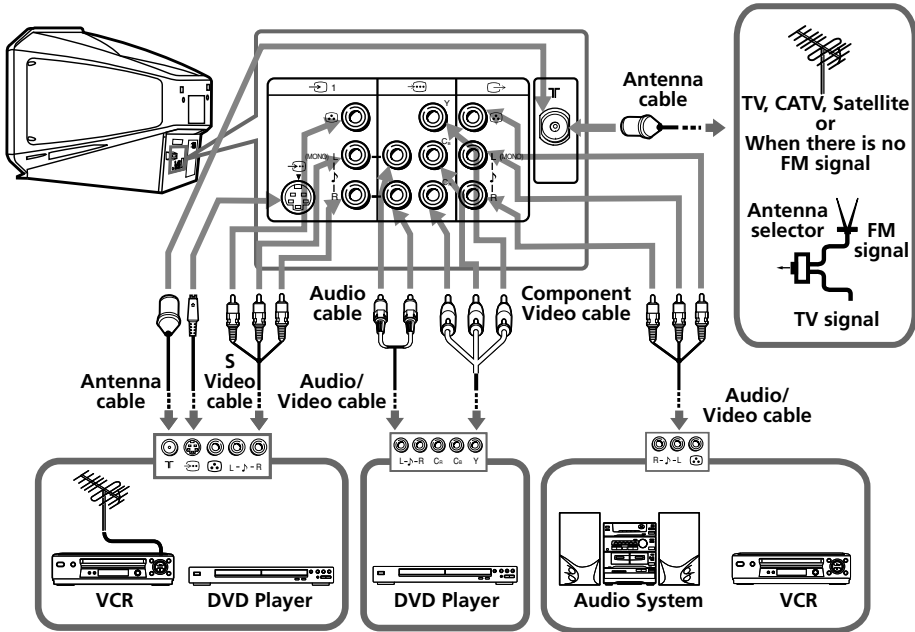
G Connecting optional components

You can connect a wide range of optional components to your TV. Connecting cables are not supplied.

Connecting to the TV (front)




Connecting to the TV (rear)





- When both (S video) and (video) for 1 are connected at the same time, (S video) is automatically selected. To view (video), disconnect the S video cable.
- If your DVD player can output interlace and progressive mode signals, select the interlace output when connecting to (component video input) on your TV. Your TV can receive either 525i/60Hz or 625i/50Hz interlace signals.
- The component video terminals on your DVD player are sometimes labeled Y/C_B/C_R, Y/P_B/P_R, Y/C_b/C_r or Y/B-Y/R-Y.
- If you select "DVD" on your TV screen, the signal from the (monitor output) jacks will not be output properly. This does not indicate a malfunction.


Troubleshooting

If you find any problem while viewing your TV, you can either use the “Factory Settings” function (see ) or check the Troubleshooting guide below. If the problem persists, contact your Sony dealer.



Snowy picture, noisy sound

- Check the antenna setup and other connections.
- Preset the channel again (see )
- Set the “Signal Booster” to “Auto” (see ) or try using an external booster.




Distorted picture, noisy sound

- Set the “Signal Booster” to “Off” (see ) , or turn off or disconnect any external booster in use.

No picture, no sound

- Check the power cord, antenna setup and other connections.
- Press  (power) to turn on the TV.
- Press  (main power) on the TV to turn off the TV for about five seconds, then turn it on again.

Good picture, no sound

- Press  + to increase the volume level or press  to cancel the muting.
- Press A/B until “Stereo” or “Mono” appears on the screen (see )



Dotted lines or stripes

- Do not use a hair dryer or other equipment near the TV.
- Check the antenna setup.


Double images or “ghosts”

- Check the antenna setup or use a highly directional antenna.
- Turn off or disconnect any external booster in use.


No color

- Adjust the “Color” level from “Picture Adjustment” (see )
- Select the appropriate “Color System” (for video input only) (see )
- Check the antenna setup.

Picture slant

- Keep external speakers or other electrical equipment away from the TV.
- Adjust the “Picture Rotation” (see )

Abnormal color patches

- Keep external speakers or other equipment away from the TV. Do not move the TV while the TV is turned on. Press  (main power) on the TV to turn off the TV for about 15 minutes, then turn it on again to demagnetize the TV.



TV cannot receive stereo broadcast sound or stereo broadcast sound switches on and off or is distorted.

- Check the antenna setup and other connections.

TV cannot receive FM radio station.

- Connect a separate FM antenna and the TV channel source through an antenna selector (switch) to your TV (see )

The (standby) indicator on your TV flashes red several times after every three seconds.

- Count the number of times the  (standby) indicator flashes. Press  (main power) to turn off your TV. Contact your nearest Sony service center.

Troubleshooting (continued)

The TV screen sometimes goes blank for slightly longer than usual during channel change.

- The “Signal Booster” is functioning to detect a weak signal. This does not indicate a malfunction.

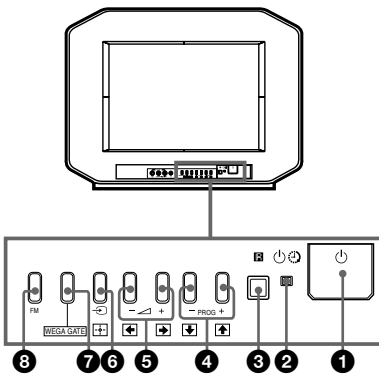
TV cabinet creaks.

- 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.

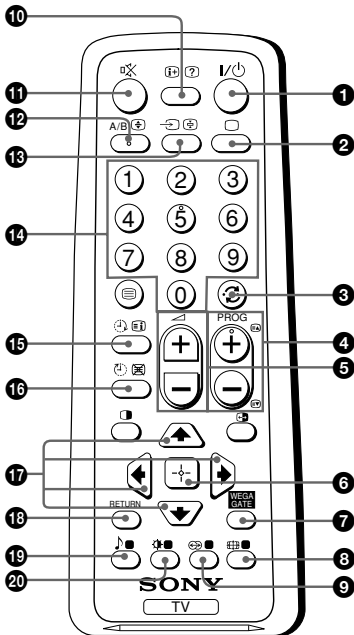
TV buttons and remote control



- 1 Turn off or turn on the TV.
- 2 Wake Up indicator.
- 2 Standby indicator.
- 3 Remote control sensor.
- 4 **PROG +/-** Select program number.
- 5 Adjust volume.
- 6 Select TV or video input.

WEGA GATE menu operations (see **K**)

- 4, 5 Select or adjust items.
- 6 Confirm selected items.
- 7 **WEGA GATE** Display or cancel WEGA GATE menu.
- 8 **FM** Listen to FM radio (see **J**).



- 1 **I/** Turn off temporarily or turn on the TV.
- 2 Display the TV program.
- 3 Jump to last program number that has been watched for at least five seconds.
- 4 **PROG +/-** Select program number. To select quickly, press and hold until the desired program number appears.
- 5 Adjust volume.
- 8 Change the picture size: "On" (16:9 wide-mode), "Off".
- 9 Select surround mode options (see **M**).
- 10 Display on-screen information.
- 11 Mute the sound.
- 12 **A/B** Select stereo/bilingual mode:

Select	To listen to
"Stereo"	stereo broadcast sound.
"Auto SAP"	SAP (Second Audio Program) broadcast sound.
"Mono"	monaural sound.

- When select "Auto SAP", non-SAP program sound will be same as "Stereo" mode sound.
- If the stereo signal is very weak, the stereo broadcast sound may become noisy. To reduce the noise, select "Mono".

TV buttons and remote control (continued)

13

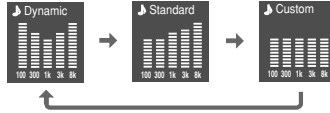
Select TV or video input.

14 0-9

Input numbers. For program numbers 10 and above, enter the next digit within two seconds.

19

Select sound mode options with a 5-Band Graphic Equalizer display: "Dynamic", "Standard", "Custom"* (see **M**).



* When the "Custom" mode is selected, you can receive the last adjusted sound settings from the "Sound Adjustment" option in the menu.

20

Select picture mode options: "Vivid", "Standard", "Custom"* (see **L**).

* When the "Custom" mode is selected, you can receive the last adjusted picture settings from the "Picture Adjustment" option in the menu

WEGA GATE menu operations (see **K**)

6

Confirm selected items.

7 **WEGA GATE**

Display or cancel WEGA GATE menu.

17

Select or adjust items.

18 **RETURN**

Return to the previous level.

Timer operations

15

Set TV to turn on automatically according to the desired period of time (Wake Up Timer) (max. of 12 hours). The indicator on TV lights up amber once you set the wake up timer. If no buttons or controls are pressed for more than one hour after the TV is turned on using the wake up timer, the TV automatically goes into standby mode.

16

Set TV to turn off automatically according to the desired period of time (Sleep Timer) (max. of one hour and 30 min.).

Teletext operations (green icon)

Not function for your TV.

(red, green, yellow, blue)

PIP operations

Not function for your TV.

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SRS **TruSurround**

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BBE
DIGITAL

J Listening to the FM Radio

You are able to listen to the FM radio stations using your TV.

To access to FM Radio mode:

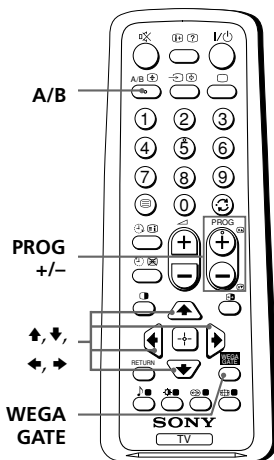
Press WEGA GATE button and select “FM Radio” (see **K**).
or

Press FM button on the front panel (see **I**).

To exit from FM Radio mode:

Press WEGA GATE button, select the desired items: “TV” or “External Inputs”, then press **[+/-]**. Select the desired TV channel or external inputs and press **[+/-]**.
or

Press FM button on the front panel.



Listening to preset stations

1 Access to FM Radio mode.

2 Press WEGA GATE button and select “Settings”.
Preset the desired FM radio stations in “FM Radio Setup” from “Channel Setup” menu (see **N**).

3 Exit from “Channel Setup” menu by pressing WEGA GATE button. The selected preset FM radio station number and label will appear on the screen.
To select the desired preset FM radio station, press PROG +/-.

[Speaker icon]: • You can also use the 1-9 buttons on the remote control to directly select the desired preset FM radio station.

Listening to non-preset stations

1 Access to FM Radio mode.

2 Press **▲** or **▼** to search for the desired FM radio station. The preset number and label will not be displayed.

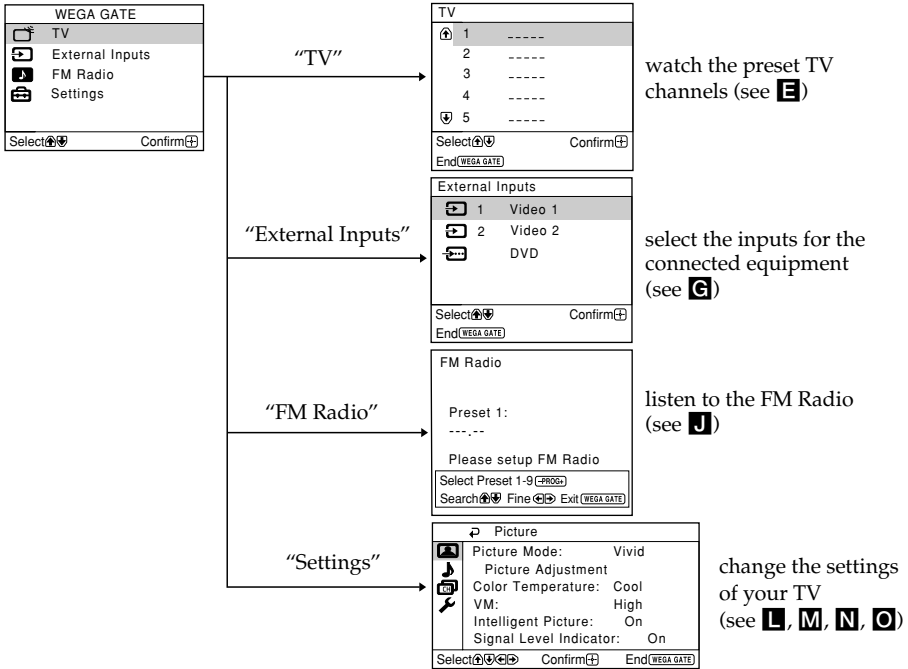
3 If the station has a weak signal, press **◀** or **▶** to fine tune the radio frequency manually.

- [Speaker icon]*: • You can only operate **▲**, **▼**, **◀** and **▶** functions using the remote control buttons in FM Radio mode.
- The available radio frequency is only for temporary listening pleasure and cannot be stored in the memory.
 - If the message “Please setup FM Radio” appears, display the “Channel Setup” menu and select “FM Radio Setup” to preset the desired FM radio stations (see **N**).

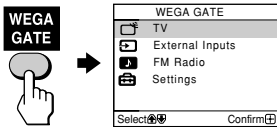
[Speaker icon]: • When a FM stereo program has static noise, press A/B until “Mono” appears. There will be no stereo effect, but the noise will be reduced.

K WEGA GATE navigator

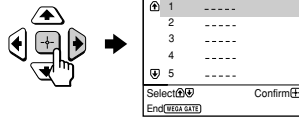
WEGA GATE is a gateway that allows you access to preset TV channels, connected external inputs, FM Radio mode and “Settings” menu.



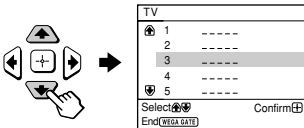
How to use WEGA GATE



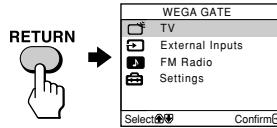
(1) Press WEGA GATE to display or cancel the WEGA GATE menu.



(2) Press **→** (or **↔**) to confirm your selection or go to the next level.



(3) Press **↑** or **↓** to select the desired item.

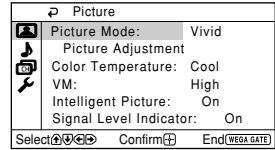



(4) Press RETURN to move to the previous level.

- When a feature is dimmed in the menu, it is not selectable.
- The WEGA GATE, **↔** and **↑, ↓, ↔, ↔** buttons on the front panel can also be used for the operations above.

L "Picture" setting

Press WEGA GATE and select "Settings".
Make sure the "Picture" icon (🖼️) is selected, then press [↵].



"Picture Mode"	Choose either "Vivid" (bright, contrast and sharp), "Standard" (normal) or "Custom"*.
"Color Temperature"	Adjust white color tint. Choose either "Cool" (blue tint), "Neutral" (neutral tint) or "Warm" (red tint).
"VM" (Velocity Modulation)	Sharpen the edges of each object. Choose either "High", "Low" or "Off".
"Intelligent Picture"	Optimize picture quality. Press ↑ or ↓ to select "On", then press [↵]. To cancel, select "Off", then press [↵].
"Signal Level Indicator"	Display the signal level when the "Intelligent Picture" is functioning. "Intelligent Picture Signal Level" indicator will be displayed, followed by picture improvement when you change the program number or the input mode.  red (weak) amber (average) green (good) Press ↑ or ↓ to select "On", then press [↵]. To cancel, select "Off", then press [↵]. "Intelligent Picture" is still functioning.

* You can adjust the setting to your personal preference in the "Picture Adjustment", "Color Temperature" and "VM" options only when the "Custom" mode is selected.

“Picture” setting (continued)

Adjusting the “Picture Adjustment” items under “Custom” mode


1 Press **↑** or **↓** to select either “Picture” (contrast), “Brightness”, “Color”, “Hue” (color tones) or “Sharpness”, then press **⏏**.

Selecting “Reset” will set your TV to the factory settings.

2 Press **↑**, **↓**, **←** or **→** to adjust the setting of your selected item, then press **⏏**.

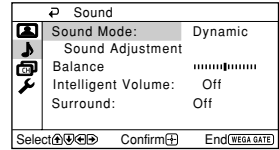
3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select “Custom”.

 • Reducing “Sharpness” can also reduce picture noise.

M "Sound" setting

Press WEGA GATE and select "Settings".
Press **▲** or **▼** to select the "Sound" icon (🔊),
then press **↵**.



"Sound Mode"	Choose either "Dynamic" (low and high tones), "Standard" (voice and high tones) or "Custom".*
"Balance"	Press ▼ or ◀ to emphasize the left speaker. Press ▲ or ▶ to emphasize the right speaker.
"Intelligent Volume"	Adjust the volume of all program numbers and video inputs automatically. Press ▲ or ▼ to select "On", then press ↵ . To cancel, select "Off", then press ↵ .
"Surround"	Choose either "TruSurround" (surround sound that spreads out to the rear of a room), "Sports" (simulated stadium effect for monaural sound) or "Off".

* You can adjust the setting to your personal preference in the "Sound Adjustment" option only when the "Custom" mode is selected.

🔍: • "Intelligent Volume" is not selectable when "TruSurround" is selected.

Adjusting the "Sound Adjustment" items under "Custom" mode

The 5-Band Graphic Equalizer feature allows you to adjust sound frequency settings of "Custom" mode in the menu.

1 Make sure that "Adjust" is selected, then press **↵**.

Selecting "Reset" will set your TV to the factory settings.


2 Press **◀** or **▶** to select the desired sound frequency, then press **▲** or **▼** to adjust the setting and press **↵**.

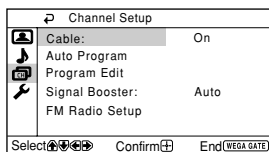
The adjusted settings will be received when you select "Custom".

- 🔍: • Adjusting higher frequency will affect higher pitched sound and adjusting lower frequency will affect lower pitched sound.
- You may display the settings directly by using the 🔊 button on the remote control (see **1**).

N "Channel Setup" setting

Press WEGA GATE and select "Settings".

Press \uparrow or \downarrow to select the "Channel Setup" icon () , then press \rightarrow .



"Cable"

Receive cable TV programs.

Press \uparrow or \downarrow to select "On", then press \rightarrow .

If you select "Cable: On", you will be able to receive 125 cable TV channels.

If there are no cable TV channels, you will receive VHF broadcast channels only.



To receive only VHF and UHF broadcast channels, select "Off", then press \rightarrow .

"Auto Program"

Preset channels automatically.

"Program Edit"

Edit the channels.

- (a) If you wish to keep the channels in the current condition, press WEGA GATE to exit.
- (b) Press \uparrow or \downarrow to select the program number with the channel you wish to change. The selected channel will appear on the screen.
- (c) If you wish to edit the channels, press \rightarrow to enter edit mode.
Press \rightarrow until the mode that you wish to edit is highlighted: Label, Skip,  (block symbol). Then press \rightarrow .
 - (1) To label, press \uparrow or \downarrow to select the alphanumeric characters for the label. Then press \rightarrow .
 - (2) To skip the program number, press \uparrow or \downarrow to select "On". Then press \rightarrow .
You can skip this program number when using PROG +/-.
 - (3) To block unwanted program number, press \uparrow or \downarrow to select . Then press \rightarrow .
- (d) Repeat step (b) to (c) if you wish to change other channels.

Press WEGA GATE to exit.

"Signal Booster"

Improve the picture quality if the TV signal is too strong or weak.

Press \uparrow or \downarrow to select either "Off" if the signal is too strong (picture distorted; picture with lines; signal interference) or "Auto" if the signal is weak (snowy picture), then press \rightarrow .

“Channel Setup” setting (continued)

“FM Radio Setup”*

Preset up to nine FM radio stations.





You can manually preset each FM radio station that can be received in your area and then store the radio frequency of the desired FM radio stations.

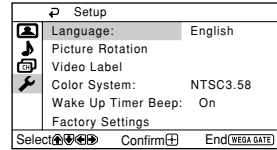
- (1) Press **▲** or **▼** to select the desired FM radio station position, then press **⏺**.
- (2) Press **▲** or **▼** to search the FM radio stations. Searching stops automatically when a station is tuned in. If the station has a weak signal, press **◀** or **▶** to fine tune the radio frequency manually, then press **⏺** to store the FM radio station.
- (3) You may edit the FM radio station label. Press **▲** or **▼** to select alphanumeric characters for the label, then press **⏺**.
- (4) Repeat steps (1) through (3) to preset other FM radio stations.





























* The “FM Radio Setup” feature is only available in FM Radio mode. To enable this feature, access to FM Radio mode by using WEGA GATE system (see **K**) or pressing the FM button on the front panel (see **1**), then preset your desired FM radio stations according to the steps mentioned above.


"Setup" setting

Press WEGA GATE and select "Settings".

Press  or  to select the "Setup" icon () , then press .



"Language"	Change the menu language. Press  or  to select either "English" or "中文" (Chinese), then press  .
"Picture Rotation"	Adjust the picture position when it is not aligned with the TV screen. Press  or  to adjust the picture position, then press  .
"Video Label"	Label the connected equipment. (1) Select "Video Input" and press  . Press  or  to select the input you want to label, then press  . (2) Select "Label" and press  , then press  or  to select the label options: "Video 1"/"Video 2"/"DVD", "VCR", "SAT", "Game" or "Edit"*. * You may edit the video label to your favorite name. Press  or  to select alphanumeric characters for the label, then press  .
"Color System"	Select the color system (for video input only). Press  or  to select either "Auto", "PAL", "SECAM", "NTSC3.58" or "NTSC4.43", then press  . Normally, set this to "Auto".
"Wake Up Timer Beep"	Allow your TV to emit beeping sound when TV switches on automatically using wake up timer. Press  or  to select "On", then press  . To cancel, select "Off", then press  .
"Factory Settings"	Reset your TV to factory settings. Press  and press  or  to select "Yes". Then press  . Your TV will go blank for a few seconds, then the "Initial Setup" menu will appear. To cancel, select "No", then press  .

- :
- To ensure the beeping sound can be heard, you must set an appropriate volume level on your TV and make sure the TV is not in mute condition.
 - To stop the beeping sound, press any buttons on the remote control or front panel.
 - If no button is pressed for three minutes, the beeping sound will automatically go off.