

Trinitron Color TV

Operating Instructions _____





GB

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

WEGA

KV-HG21



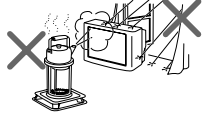

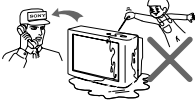

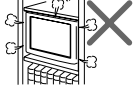
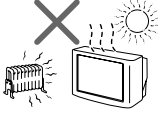

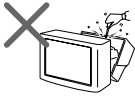
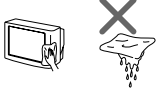
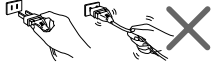
A Specifications

	KV-HG21M50 KV-HG21P50	Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	KV-HG21M50 only
	B/G	KV-HG21P50 only
Color system	PAL, PAL 60, SECAM, NTSC3.58, NTSC4.43	KV-HG21M50 only
	PAL, PAL 60, NTSC3.58 (AV IN), NTSC4.43	KV-HG21P50 only
Channel coverage B/G	VHF : E2 to E12 /UHF : E21 to E69 / CATV : S01 to S03, S1 to S41	KV-HG21M50 only
	I	
	D/K	
	M	
Antenna	75-ohm external terminal	
Audio output (Speaker)	5 W + 5 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	
 (Component Video)	Input: 1 Phono jacks; Y: 1 Vp-p, 75 ohms, sync negative Cb: 0.7 Vp-p, 75 ohms Cr: 0.7 Vp-p, 75 ohms	
 (Headphone)	Output: 1 Stereo minijack	
FM Radio		
Tuning Range	87.5 - 108.0 MHz	
Intermediate Frequency	10.7 MHz	
Picture tube	21 in.	
Tube size (cm)	54	Measured diagonally
Screen size (cm)	51	Measured diagonally
Dimensions (w/h/d, mm)	638 × 458 × 482	
Mass (kg)	25	

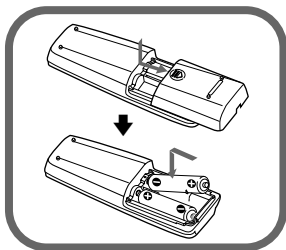
Design and specifications are subject to change without notice.

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>

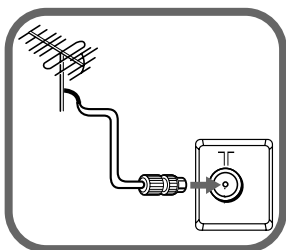
C Getting Started




Step 1


Insert the batteries (supplied) into the remote.

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

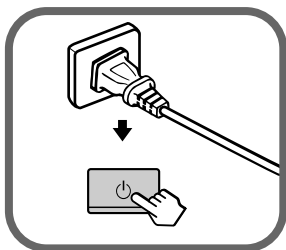


Step 2


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


⚠: • Your TV can receive both TV and FM radio signals from the appropriate connections through the  (antenna input) terminal (see **E**).

- You can also connect your TV to other optional components (see **E**).



Step 3

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.



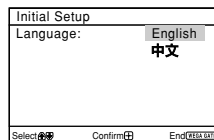
Step 4

Set up the TV by following the instructions of the "Initial Setup" menu (see **D**).

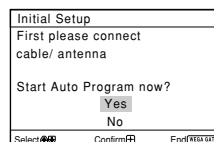
D Setting up your TV (“Initial Setup”)

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 **⏏**.

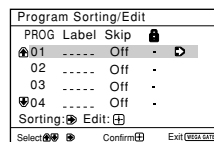
- 1 Select the desired menu language.



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

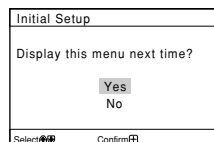


- 3 The “Program Sorting/Edit” menu enables you to sort and edit the channels (see **L**).



- 4 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”.

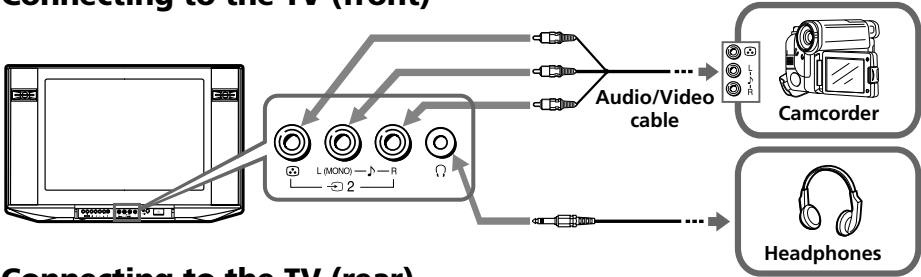


- ⚠**: • You can immediately go to the end of the “Initial Setup” menu by pressing WEGA GATE.

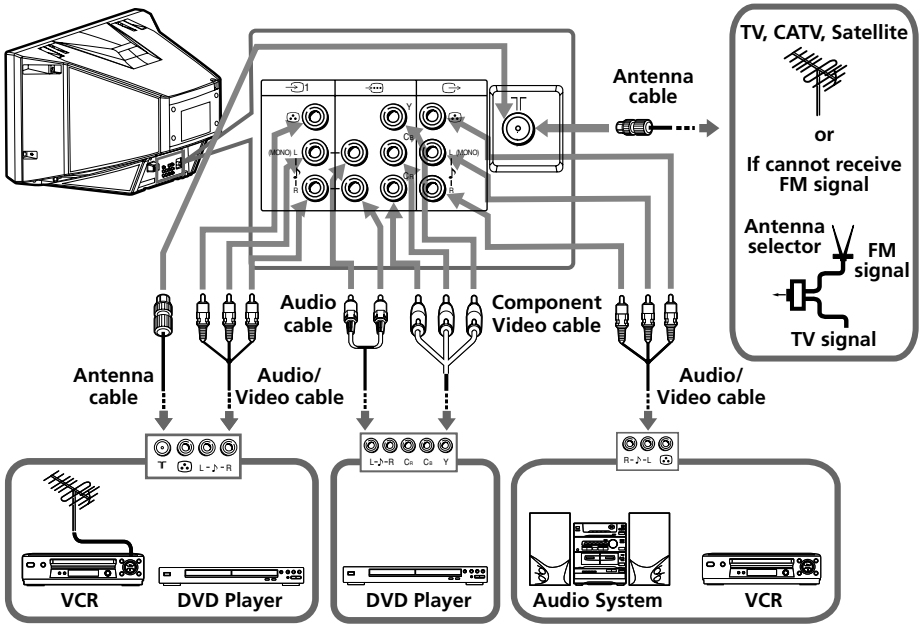
E Connecting optional components

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)



- If you connect a VCR to **T** (antenna input), preset the signal output from the VCR to the program number 0 on the TV (see **L**).
- If your DVD player can output interlace and progressive mode signals, select the interlace output when connecting to **1** (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 **G** (monitor output) jacks will not be output properly. This does not indicate a malfunction.

F Troubleshooting

If you find any problem while viewing your TV, you can either use the “Factory Settings” function (see **M**) 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 manually again (see **L**).
- Set the “Signal Booster” to “Auto” (see **L**) or try using an external booster.

Distorted picture, noisy sound

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

Good picture, noisy sound

- Select the appropriate “TV System” (KV-HG21M50 only) (see **L**).

No picture, no sound

- Check the power cord, antenna setup and other connections.
- Press **I**/**⏻** (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.

Dotted lines or stripes

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

Double images or “ghosts”

- Use the fine tuning (“Fine”) function (see **L**).
- 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 **J**).
- Select the appropriate “Color System” (see **M**).
- Check the antenna setup.

Picture slant

- Keep external speakers or other electrical equipment away from the TV.

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 FM radio station.

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

Troubleshooting (continued)

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

- Count the number of times the ⏻ (standby) indicator flashes. Press ⏻ on the TV to turn it off, disconnect the AC power cord and inform your dealer or Sony service center of how the indicator flashes (duration and interval).

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.

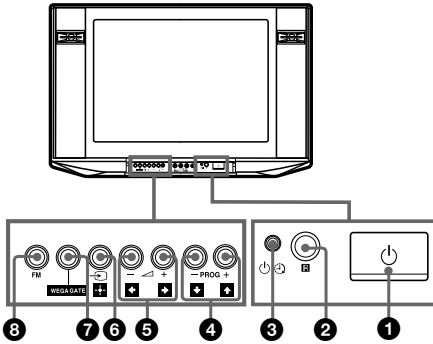
TV cabinet creaks.

- 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.

G TV buttons and remote control

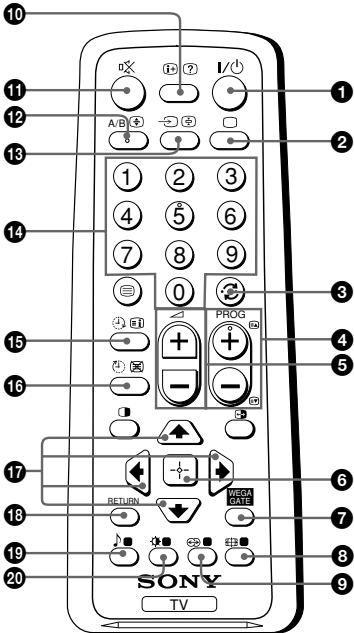


- 1 Turn off or turn on the TV.
- 2 Remote control sensor.
- 3 Wake Up indicator.
- 3 Standby indicator.
- 4 PROG +/- Select program number.
- 5 +/- Adjust volume.
- 6 Select TV or video input.

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

- 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 **H**).

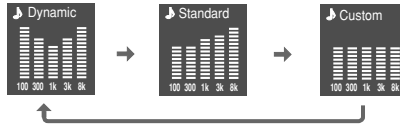


- 1 Turn off temporarily or turn on the TV.
- 2 Display the TV program.
- 3 Jump to last program number that has been watched for at least five seconds.
- 4 PROG +/- Select program number. To select quickly, press and hold until the desired program number appears.
- 5 +/- Adjust volume.
- 8 Change the picture size: "On" (16:9 wide mode), "Off".
- 9 Select surround mode options (see **K**).
- 10 Display on-screen information.
- 11 Mute the sound.
- 12 A/B Not function for your TV.
- 13 Select TV or video input.
- 14 0-9 Input numbers. For program numbers 10 and above, enter the second digit within two seconds.

TV buttons and remote control (continued)

19 

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



* 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 **J**).

* 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 **I**)

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 

(Wake Up Timer)

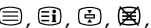
Set TV to turn on automatically according to the desired period of time (max. of 12 hours). The  indicator on TV lights up amber once you set the wake up timer. If no buttons or controls are pressed for more than three hours after the TV is turned on using the wake up timer, the TV automatically goes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

16 

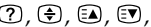
(Sleep Timer)


Set TV to turn off automatically according to the desired period of time (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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BBE
DIGITAL

H Listening to the FM Radio

You are able to listen to the FM radio stations using your TV by connecting an antenna (see **E**).

To access to FM Radio mode:

Press WEGA GATE button and select "FM Radio" (see **I**).

or

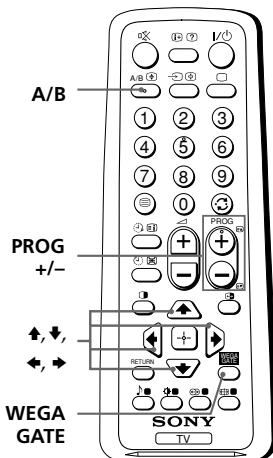
Press FM button on the front panel (see **G**).

To exit from FM Radio mode:

Press WEGA GATE button, select the desired items: "TV" or "External Inputs", then press **[OK]**. Select the desired TV channel or external inputs and press **[OK]**.

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 **L**).

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 +/-.

: • 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.

: • You can only operate **▲**, **▼**, **◀** and **▶** functions using the remote control buttons in FM Radio mode.

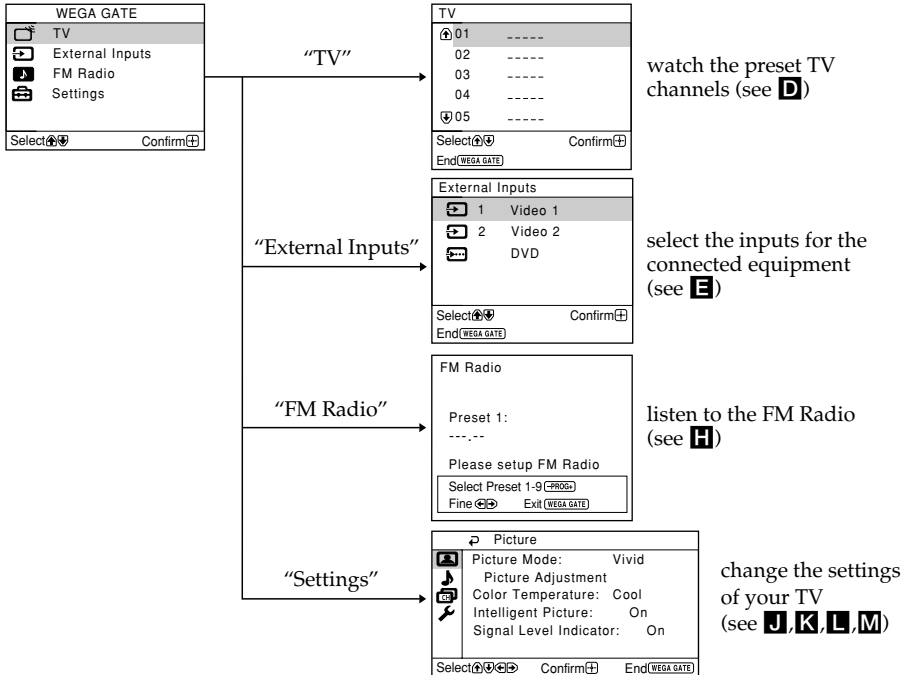
- The available radio frequency is only for temporary listening pleasure and cannot be stored in the memory.

- 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 **L**).

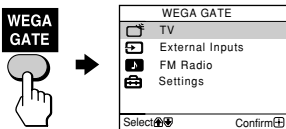
: • If the station has a noisy sound, you may be able to improve the sound quality by pressing **◀** or **▶**.

WEGA GATE navigator

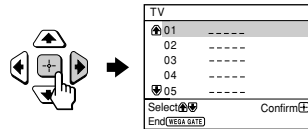
WEGA GATE is a gateway that allows you access to preset TV channels, connected external inputs, FM Radio mode and "Settings" menu.



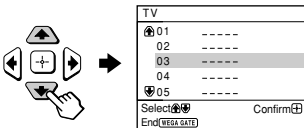
How to use WEGA GATE



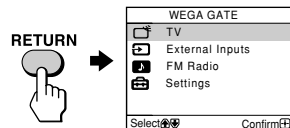
(1) Press WEGA GATE to display or cancel the WEGA GATE menu.



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



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

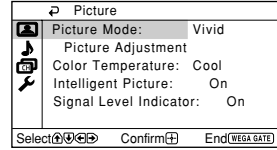



(4) Press RETURN to move to the previous level.

- 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.

J "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).
"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. <div style="text-align: center;">  <p>red amber green (weak) (average)(fair good)</p> </div> 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" and "Color Temperature" options only when the "Custom" mode is selected.

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 (⏪).

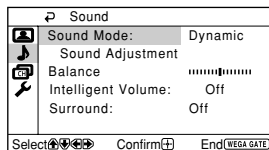
3 Repeat the above steps to adjust other items.

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

- 📌:
- "Hue" can be adjusted for the NTSC color system only.
 - Reducing "Sharpness" can also reduce picture noise.

K "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 "Movie" (cinema surround effect for stereo sound), "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.

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.

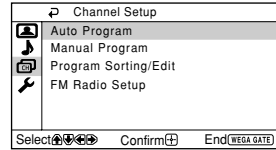
2 Press **◀** or **▶** to select the desired sound frequency, then press **▲** or **▼** to adjust the setting and press **[+/-]**.

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 **[G]**).

L "Channel Setup" setting

Press WEGA GATE and select "Settings".
Press \uparrow or \downarrow to select the "Channel Setup"
icon (📺), then press (📺).



"Auto Program"	Preset channels automatically.
"Manual Program"	Manually preset desired channels and channels that cannot be preset automatically (see Presetting channels manually).
"Program Sorting/Edit"	<p>Sort and edit the channels.</p> <p>(a) If you wish to keep the channels in the current condition, press WEGA GATE to exit.</p> <p>(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.</p> <p>(c) If you wish to store the channels in a different order: (1) Press \rightarrow to enter sorting mode. (2) Press \uparrow or \downarrow to select the new program number position for your selected channel, then press \leftarrow.</p> <p>(d) If you wish to edit the channels, press (📺) to change to edit mode. Press \rightarrow until the mode that you wish to edit is highlighted: Label, Skip, 🚫 (block symbol). Then press (📺). (1) To label, press \uparrow or \downarrow to select the alphanumeric characters for the label. Then press (📺). (2) To skip the program number, press \uparrow or \downarrow to select "On". Then press (📺). You can skip this program number when using PROG +/-. (3) To block unwanted program number, press \uparrow or \downarrow to select 🚫. Then press (📺).</p> <p>(e) Repeat step (b) to (d) if you wish to change other channels.</p>

Press WEGA GATE to exit.

“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. If the station has a noisy sound, you may be able to improve the sound quality by pressing **◀** or **▶**. 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 **1**) or pressing the FM button on the front panel (see **G**), then preset your desired FM radio stations according to the steps mentioned above.

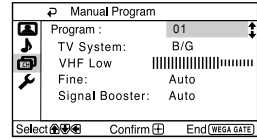
- ℳ**: • If you preset a blocked program number, that program number will be unblocked automatically.
- If you sort a blocked program, that program will remain blocked.

"Channel Setup" setting (continued)

Presetting channels manually

1 After selecting "Manual Program", select the program number to which you want to preset a channel.







- (1) Make sure "Program" is selected, then press .
- (2) Press  or  until the program number you want to preset appears on the menu, then press .














2 Select the desired channel.

- (1) Make sure either "VHF Low", "VHF High" or "UHF" is selected, then press .
- (2) Press  or  until the desired channel's broadcast appears on the TV screen, then press .

3 If the sound of the desired channel is abnormal, select the appropriate TV system (KV-HG21M50 only).







- (1) Press  or  to select "TV System", then press .
- (2) Press  or  until the sound becomes normal, then press .

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 .
- (2) Press  or  to select "Manual", then press .
- (3) Press , ,  or  until the picture and sound quality are optimal, then press .

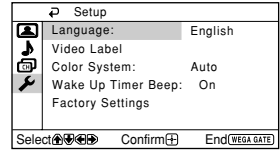
The + or – icon on the menu flashes while tuning.

5 If the TV signal is too strong (picture distorted; picture with lines; signal interference) or weak (snowy picture), you may be able to improve the picture quality by setting the "Signal Booster" feature.

- (1) Press  or  to select "Signal Booster", then press .
 - (2) Press  or  to select either "Off" (for picture distorted; picture with lines; signal interference) or "Auto" (for snowy picture), then press .
-

M "Setup" setting

Press WEGA GATE and select "Settings".
Press \blacktriangle or \blacktriangledown to select the "Setup" icon (🔧),
then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$.



"Language"	Change the menu language. Press \blacktriangle or \blacktriangledown to select either "English" or "中文" (Chinese), then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$.
"Video Label"	Label the connected equipment. (1) Select "Video Input" and press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$. Press \blacktriangle or \blacktriangledown to select the input you want to label, then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$. (2) Select "Label" and press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$, then press \blacktriangle or \blacktriangledown 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 \blacktriangle or \blacktriangledown to select alphanumeric characters for the label, then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$.
"Color System"	Select the color system. Press \blacktriangle or \blacktriangledown to select either "Auto", "PAL", "SECAM", "NTSC3.58" or "NTSC4.43", then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$. 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 \blacktriangle or \blacktriangledown to select "On", then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$. To cancel, select "Off", then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$.
"Factory Settings"	Reset your TV to factory settings. Press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$ and press \blacktriangle or \blacktriangledown to select "Yes". Then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$. Your TV will go blank for a few seconds, then the "Initial Setup" menu will appear. To cancel, select "No", then press $\left[\begin{smallmatrix} \blacktriangle \\ \blacktriangledown \end{smallmatrix} \right]$.

- 📌:
- Color system is not selectable in FM Radio mode and "SECAM" is available for KV-HG21M50 only.
 - 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.