

Haier

COLOUR TV RECEIVER

OWNER'S MANUAL

Please read this manual carefully before operating the unit, and keep it for future reference.

The Owner's Manual for the Follow Models:
21F9D, 21T9D, 21F9K, 21TA1(S),
21TA1(D), 21FA1, 21TA1, 21T9D(D),
21T9D(S), 21T9D(B), 21F7A, HT-3728,
HT-3768, 37T6D-T, 15F6B, 21TA1(B),
21TA1(BG)

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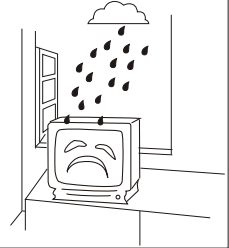
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Warning and Cautions

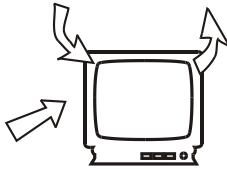
1. When you clean the TV set, please pull out the power plug from AC outlet. Don't clean the cabinet and the screen with benzene, petrol and other chemicals.



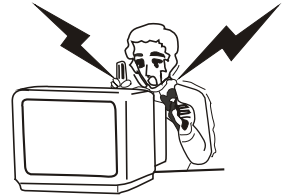
4. To prevent the TV set from firing and electric shock, don't expose the TV set to rain or moisture.



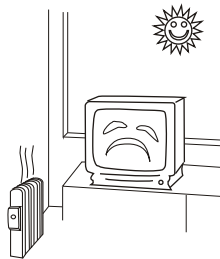
2. In order to prolong the using life of the TV set, please place it on a ventilated place.



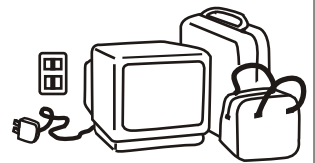
5. Don't open the back cover, otherwise it is possible to damage the components in the TV set and harm you.



3. Don't place the TV set in the sunshine or near heat source.



6. When the TV set isn't going to be used for long time or it is in thunder and lightening, please pull out the plug from AC outlet and the antenna plug from the cover of the TV set.



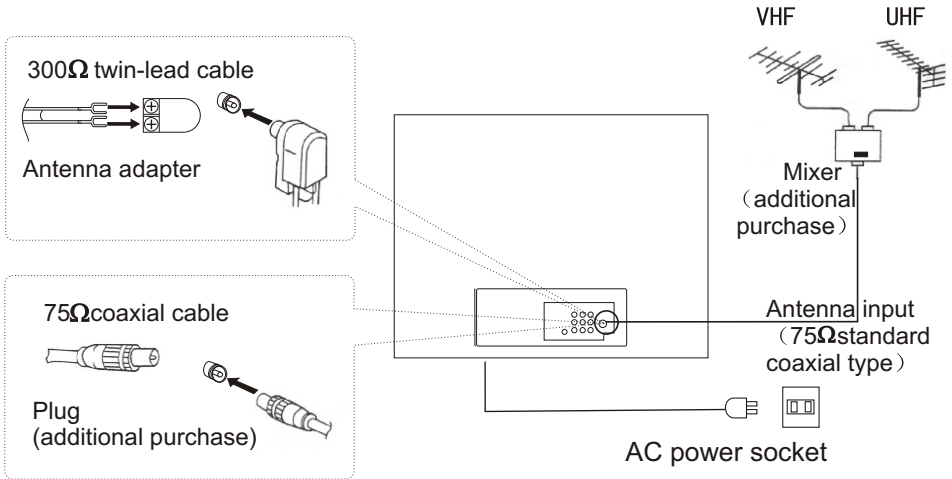
Explanation on the display tube

In general, it is not needed to clean the tube surface. However, necessary, it's surface can be cleaned with a dry cotton cloth after cutting off the power. Don't use any cleanser. If using hard cloth, the tube surface will be damaged.

Installation

Antenna connection

Generally speaking, to enjoy a clearer picture, we recommend that you use a CATV system or an outdoor antenna. In different places, the suitable antenna type and position are different.



Note:

- * It is recommended that you'd better use 75Ω coaxial cable to remove the disturbance caused by airwave.
- * Don't bind antenna cable and electric wire together.

Preparation for the remote control

Battery installation

- ! Remove the batteries cover.
- ! Insert two size AA batteries matching the +/- polarities of the battery to the +/- marks inside the battery compartment.

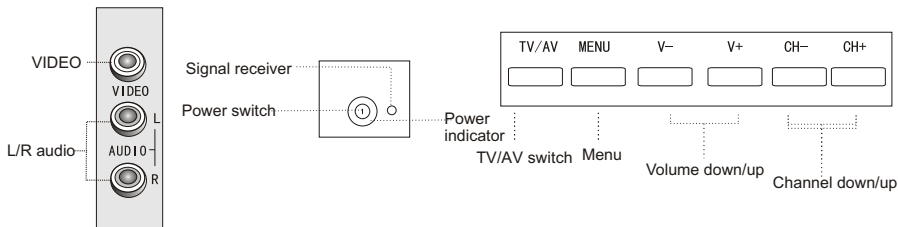
Tips for remote operation

- ! The battery life should be about one year under normal use.
- ! When the remote control will not be used for a long period of time or when the batteries are worn out, remove the batteries to prevent leakage.
- ! Do not throw the batteries into a fire. Dispose of used batteries in the specified manner.
- ! Do not drop, dampen or disassemble the

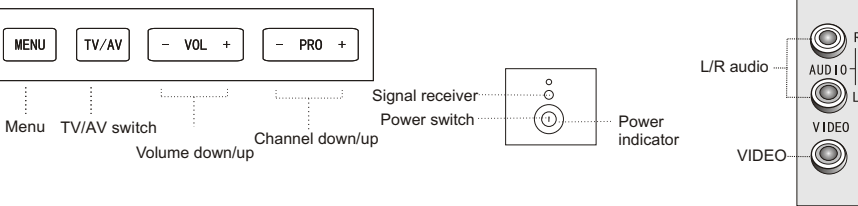
Position of Keys and Plug-ins

Front panel

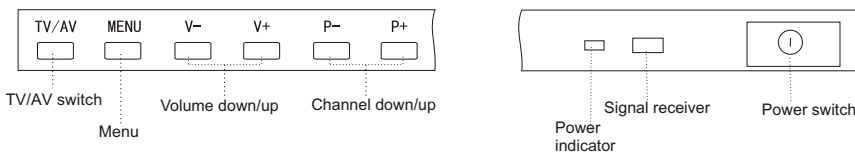
21FA1/21TA1/21TA1 (S) /21TA1 (D) /21TA1 (B) /21TA1 (B6)



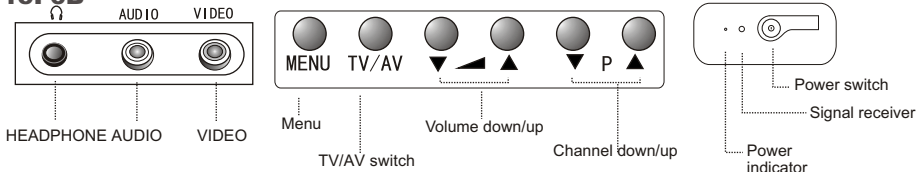
21F9K



21F9D/21T9D/21T9D (D) /21T9D (S) /21T9D (B)



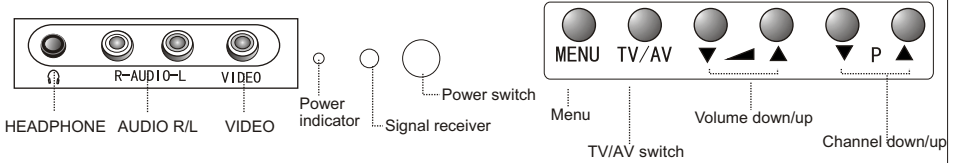
15F6B



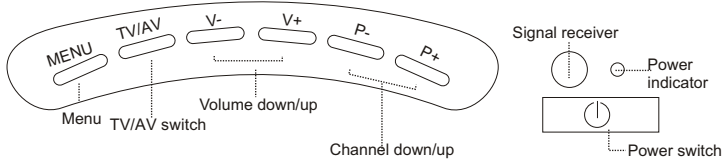
Position of Keys and Plug-ins

Front panel

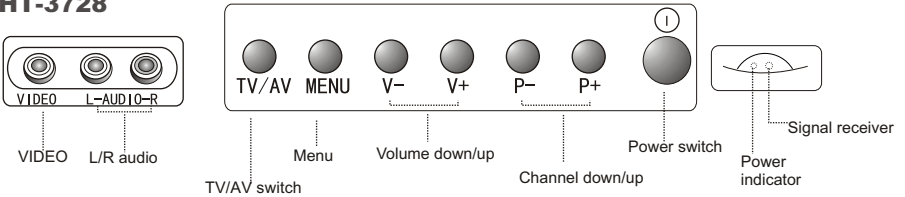
HT-3768/37T6D-T



21F7A

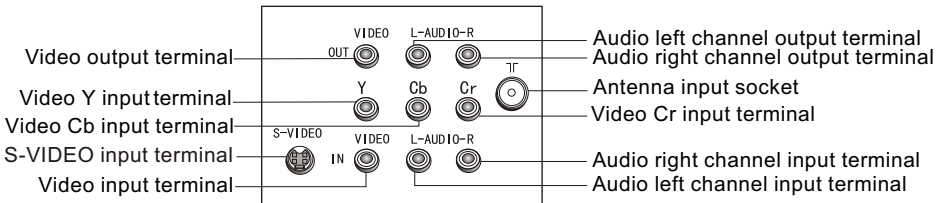


HT-3728



Note: Please do not use the side and back AV terminals simultaneously.

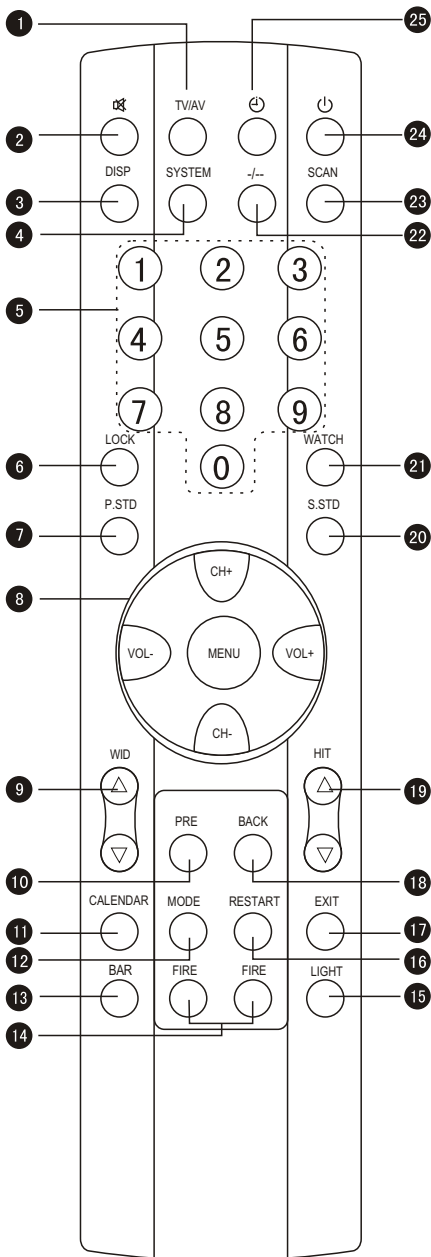
Back panel



Note: The audio channel in some models doesn't have the function of stereo.
S-VIDEO is only available in some models.

Using the Remote Control

Buttons and Descriptions

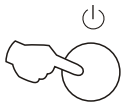


- 1 TV and AV Exchange Button
To exchange between TV and other available video inputs
- 2 Mute Button
Press to conceal the sound of programs.
- 3 Screen Display Button
- 4 System Adjust Button
- 5 Direct-digit Choosing Button
Directly select channel numbers
- 6 Lock Setting button
Used for setting lock for channel-searching, channel, AV and clock, etc.
- 7 Picture Mode Select Button
There are DYNAMIC, STANDARD, MILD, MEMORY, PICTURE MUTE and COLOR MUTE six modes of picture.
- 8 Menu Select/Adjust Button
Use this button to adjust the menu, the volume and the channels, as well as to control the game.
- 9 = 21
- 10 Program Play-forward Button
- 11 Calendar
- 12 Game Background Select Button
- 13 BAR Button(not available)
- 14 Fire Button(can call the calendar)
- 15 = 17
- 16 Restart Game Button
- 17 Game Exit Button
- 18 Program Play-backward Button
- 19 Chromatic Belt Width Adjust Button (not available)
- 20 Sound Mode Select Button
There are high, normal and low three kinds of sound modes.
- 21 Stopwatch Button
The stopwatch can work 1 hour without interruption and when you use this function, do not operate other function button as well.
- 22 Digit Select Button
Change the channel position number between one digit, two-digits and three-digits.
- 23 Program Scan Button
- 24 DC Standby Button
- 25 Sleep Timer Button

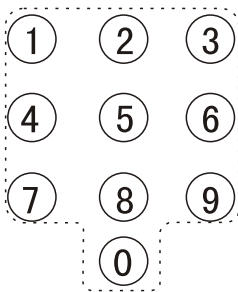
Power On and Power Off

- Below are methods on how to power on/off the TV set with the switch on the TV and on the remote control.

Power on/off




DC Standby Button



Direct-digit Choosing Button

Connect/disconnect to the power

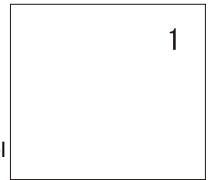
1. Connect the power supply wire, then press power switch button, the power indicator will light.


2. If the TV is in the state of standby, press the  button on the remote control.


NOTE

1. You can also press the 0-9 button to call off the standby status instead of pressing the DC Standby button. Press the digit button of the preset channel (limited to one digit), you can complete the selection of channel while you turn on the TV set(To operate the preset of TV channel, please see **TUNING** on page 10-13).

2. When you do not use the remote control, you can directly press the the button on the television to call off the standby status.



3. Press the  button on the remote control to get into the standby state.

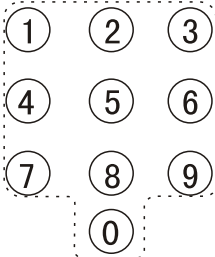
4. Press the  button on the TV set to completely turn off the TV.

Power supply auto-off function

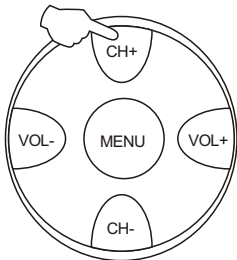
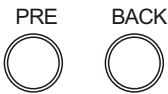
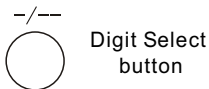
When the **B.B**(black background) is set **ON**, and there is no signal, game screen protection works, and ,in15 minutes later, it will change into standby status.

Viewing TV Programs

Viewing TV programs



Direct-digit Choosing button



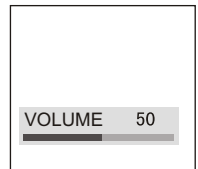
How to select the TV program

- Use the direct-digit choosing button
 - Press the button from 0-9 to select a one digit channel.
 - If you want to select a two-digits channel, press the Digit Select button and change it into two-digits mode, then press the number of the channel.
 - If you want to select a three-digits channel, press the Digit Select button and change it into three-digits mode, then press the number of the channel.
 - If the channel position number you select is larger than 218, the TV will use the first two number as the channel position.
- Use **CH+/-** button
 - Press **CH+** to increase the channel position number.
 - Press **CH-** to decrease the channel position number.
- Use **PRE** button and **BACK** button
 - Press **PRE** button, you can go back to the channels you viewed (as many as four).
 - Then, press Back button, you can return to the channels you were watching just now (as many as four).
 - For example, if you have viewed channel 1,2,3,4,5,6 after the TV is powered on, and the channel you are watching now is number 7, then press **PRE** button, you can view channel 6,5, 4,3, and you may press the **BACK** button to return to channel 7.

Choose the proper volume you like

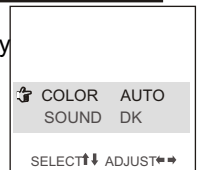
Press **VOL+/-** button to adjust the volume.

- If the **VOL STORE** is set **ON**, the volume of the pre-fifty channel will be stored independently.
- Press **VOL+** to increase the volume, press **VOL-** to decrease the volume.



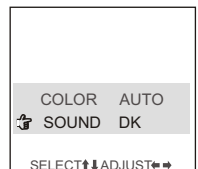
If the color or sound of one channel is abnormal

It might be because the color or sound system has been set improperly. You may follow the instruction below to adjust it. Press **SYSTEM** button, and you can see the form.



- If the color of the picture is abnormal Press **CH+/-** button, and move the indicator (↔) to **COLOR**, and press **VOL+** button to select the proper color (**AUTO, PAL, NTSC4.43** and **NTSC3.58** will appear alternately). Generally, please set to **AUTO**.

- If the sound is abnormal Press **CH+/-** button, and move the indicator (↔) to **SOUND**, and press **VOL+/-** button to select the proper sound if it can be selected.



Viewing TV Programs(continued)

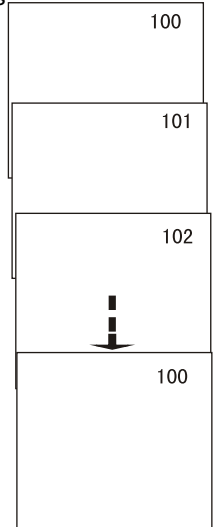
- Program scanning function is to let the television automatically scan all preconcerted channel program (about two seconds per channel).

Program scan and screen display

Program scanning function



1. If you want to scan the programs and select your favorite channel, just press the **SCAN** button, then the television will start scanning from the present channel with a rate of two seconds per channel and until all the preconcerted programs have been displayed once, the TV set will return to the starting channel.



2. If you want to terminate this function during the scanning, press the **SCAN** button again, and the program will stay at the present channel.



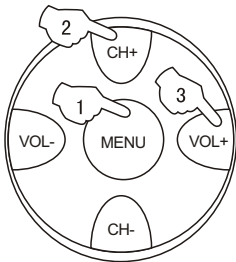
Screen display

Usually, when you press the **DISP** button, the channel number will appear on the top right corner of the screen and press it again, the screen's top left corner will display the present time (the adjustment of time please see Setting the Timer). If press it for a third time, the channel number and time will both disappear.

Tuning

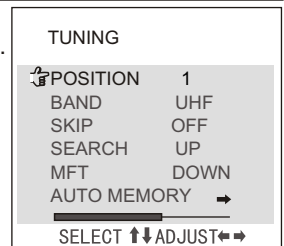
- There are three ways of searching: automatic search, manual search and MFT (manual fine tune).
- You may operate it either on the TV or on the remote control. Here is mainly about the remote control.

Automatic search

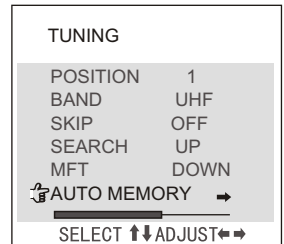


Automatic search

1. Press **MENU** button, until **TUNING** appears on the screen.

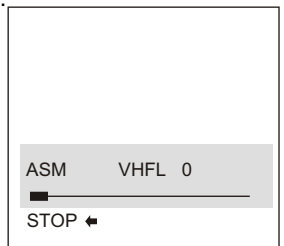


2. Press **CH+/-** button to move the indicator (📶) to **AUTO MEMORY**.



3. Press **VOL+**, then **AUTO MEMORY** mode will work.

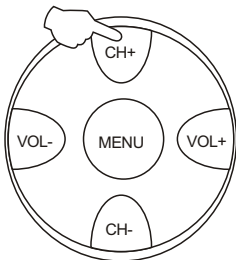
The TV set will search automatically all available programs, after that, all available programs will be stored in turn and the TV set will return to the first channel.



- If you want to stop the search, just press **VOL-** button.
- The order of the automatic search is due to the frequency of the program, generally speaking, it is used only at the first time you search the program, and once the order of the program has been confirmed, you don't have to use this function, otherwise the order of the program will be changed.

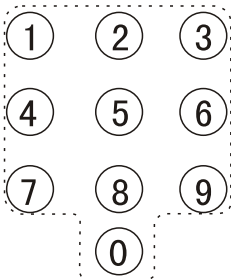
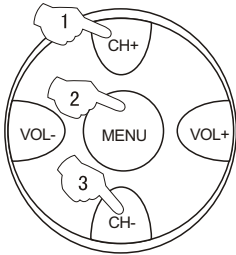
After searching

- Press **CH+/-** button to check the channels.
- If the color or sound is abnormal in a certain channel, it may be the color or sound system has not been set properly, so you should adjust it to the proper system (Reference to page 8).

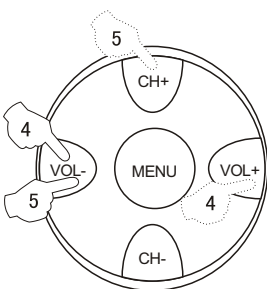


Tuning(continued)

Manual search



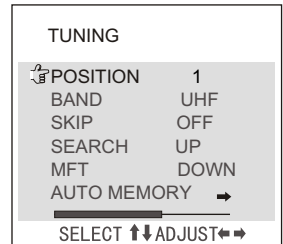
Direct-digit Choosing Button



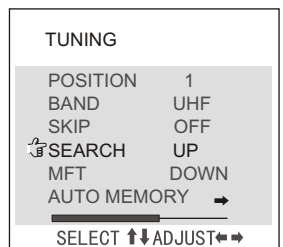
Manual search

1. Press **CH+/-** button or the Direct-digit Choosing button to select a channel directly (take channel 1 for example).

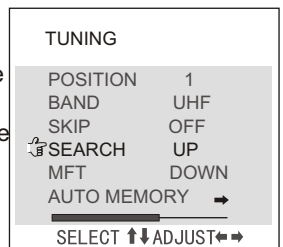
2. Press **MENU** button, until **TUNING** appears on the screen.



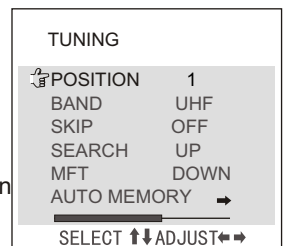
3. Press **CH-** button and move the indicator (↑↓) to **SEARCH**.



4. Press **VOL+/-** button to start searching.
VOL- button is used to search the lower frequency channel.
VOL+ button is used to search the higher frequency channel.
 Repeat the steps until you find the channel you need.

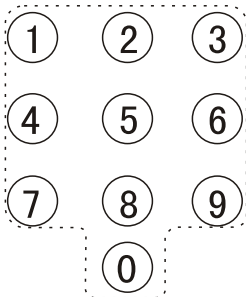
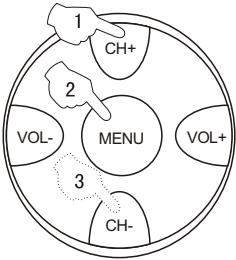


5. When you plan to store another new channel at a new place, use **CH+/-** button and move the indicator (↑↓) to **POSITION**, then press **VOL+/-** button to select a channel number and press **CH+/-** button to move to **SEARCH**, then repeat the fourth step.

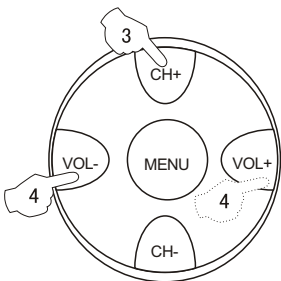


Tuning(continued)

MFT



Direct-digit Choosing Button



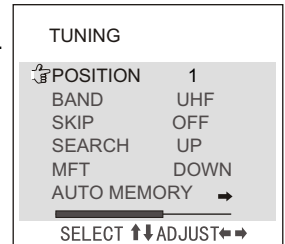
MFT(manual fine tune)

When you can't get a satisfactory picture and audio effect, you can fine tune to obtain.

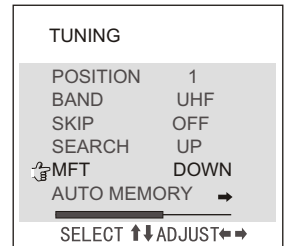
1. Press **CH+/-** button or the Direct-digit Choosing button to select a channel directly (take channel 1 for example).



2. Press **MENU** button, until **TUNING** appears on the screen.



3. Press **CH+/-** button and move the indicator (⏏) to **MFT**.

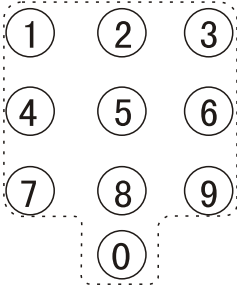


4. Press **VOL+/-** button repeatedly to fine tune, until the picture and the sound become satisfactory.

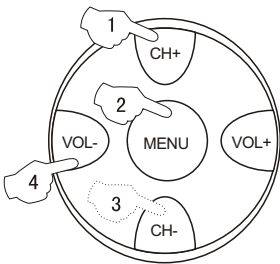
- **VOL-** button is used to search the lower frequency channel.
- **VOL+** button is used to search the higher frequency channel.

Tuning(continued)

Skip



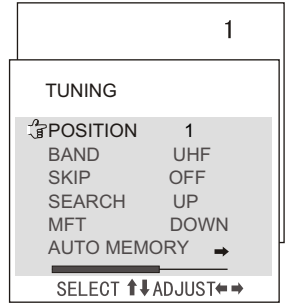
Direct-digit Choosing Button




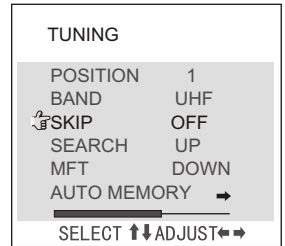
Skip

After the programs are preset, you can skip some programs so that to select your favorite channels only.

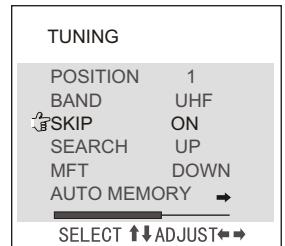
1. Press **CH+/-** button or Direct-digit Choosing button to select a channel directly (take channel 1 for example).
2. Press **MENU** button, until **TUNING** appears on the screen.



3. Press **CH+/-** button and move the indicator() to **SKIP**.



4. Press **VOL+/-** button to set it **ON**.



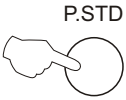
5. Press **MENU** button to close the menu. When you select channels with **CH+/-** button, this channel will be skipped. However, you can also use the Direct-digit Choosing button on the remote control to select this channel directly.

If you want to recover the skipped channel

1. Use Direct-digit Choosing button to select the number of the channel to be recovered.
2. Do the above steps again.
3. Press **VOL+/-** button to set **SKIP OFF**.

Adjusting the Picture and the Sound

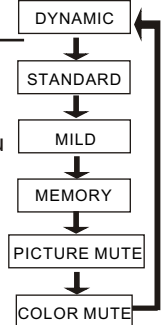
Multiple picture modes



How to select the picture mode

You may select the mode you want from the five preset modes and one individual mode.

Press the **P. STD** button to select a mode you like. **DYNAMIC PICTURE, STANDARD PICTURE, MILD PICTURE, MEMORY, PICTURE MUTE** and **COLOR MUTE**, totally six picture modes can be selected alternately.

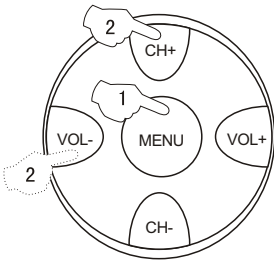


MODE	PICTURE QUALITY
DYNAMIC	BRIGHT COLOR
STANDARD	MEDIUM COLOR AND BRIGHTNESS
MILD	LOW COLOR AND BRIGHTNESS
MEMORY	SET BY YOURSELF
PICTURE MUTE	NO PICTURES
COLOR MUTE	BLACK & WHITE


If the picture mode is set to **PICTURE MUTE** or **COLOR MUTE**, it will auto renew to **MEMORY** mode when you restart your TV set.

Set the parameter of MEMORY

1. Press **MENU** button, until **PICTURE** appears on the screen.



PICTURE	
CONTRAST	100
BRIGHT	50
COLOR	50
SHARP	50
B.B	ON
SELECT ↑↓ADJUST←→	

2. Press **CH+/-** button, move the indicator () to the option you want to adjust, then press **VOL+/-** button to do the adjustment. Then the parameter will be automatically stored in **MEMORY** option.

OPTION	VOL+	VOL-
CONTRAST	STRONG	WEAK
BRIGHT	BRIGHT	DARK
COLOR	THICK	LIGHT
SHARP	SHARP	SOFT

Adjusting the Picture and the Sound

(continued)

Multiple Sound Modes

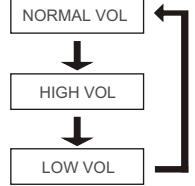
S.STD



How to select the sound mode

You can quickly select your most favored sound mode from the following three kinds of modes.

Press the **S.STD** button to select the sound quality that you want. **NORMAL VOL**, **HIGH VOL** and **LOW VOL** can be selected in turn (their parameter may be adjusted due to your need).



Setting the sound

This function can let you regulate the volume to the preconcerted parameter quickly (such as the **NORMAL VOL**, **HIGH VOL** or **LOW VOL**).

1. Press **MENU** button, until **FUNCTION 1** appears on the screen.

FUNCTION 1	
LANG.	ENGLISH 1n2
CURTAIN	III
LOW VOL	00
NORMAL VOL	00
HIGH VOL	00
VOL STORE	OFF
SELECT ↑↓ ADJUST ←→	

2. Press **CH+/-** button, move the indicator (the arrow) to the **HIGH VOL**, then press **VOL+/-** button to adjust the parameter you expect. With the same method, you can adjust the parameter of the **NORMAL VOL** or the **LOW VOL**.

FUNCTION 1	
LANG.	ENGLISH 1n2
CURTAIN	III
LOW VOL	00
NORMAL VOL	00
HIGH VOL	00
VOL STORE	OFF
SELECT ↑↓ ADJUST ←→	

• Suppose the **LOW VOL** is A, **NORMAL VOL** is B, **HIGH VOL** is C, then that will be:
 $0 \leq A \leq B \leq C \leq 100$

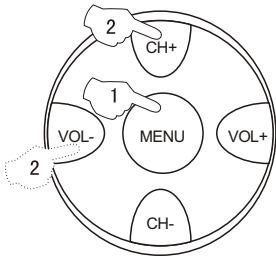
• When adjusting the three modes, you should press them in proper order as **HIGH VOL**, **NORMAL VOL**, **LOW VOL**.

3. Press the **S.STD** button repeatedly to select the different sound setting modes.

Volume store

When the **VOL STORE** (as above chart) is set **ON**, the sudden change of the volume can be avoided when you change the channel (only the pre-50 channels volume).

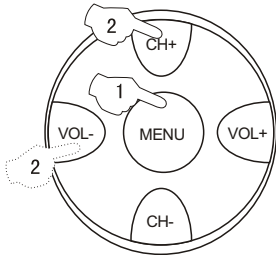
S.STD



Adjusting the Picture and the Sound

(continued)

S.C.C, count and mute



How to use the S.C.C(soft change channel)

- This TV set provides you with the function of **S.C.C.** When it is set "ON", the picture will fade in and fade out when the channel is changed.

1. Press **MENU** button, until **FUNCTION 2** appears on the screen.

FUNCTION 2	
SUBMARINE	→
POS.EX.	→
S.C.C	OFF
COUNT	0:00

SELECT ↑↓ADJUST←→

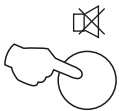
2. Press **CH+/-** button, move the indicator() to the **S.C.C.**, then press **VOL+/-** button to set it **ON** or **OFF**.

How to use the COUNT function

- This TV set provides you with the function of **COUNT**, if you want to know how long your TV set has been used, you can press **MENU** button, and find **FUNCTION 2**, then you can know the time the TV has been on(count from 0 after 100,000 hours).
- The time displayed is the total time when you watch the TV(time of standby status will not be included), the number cannot be altered through operating by the remote control or on the TV set.

How to use the MUTE function

When you want to pay attention to the environment or answer a telephone, or to meet guests, using the mute function is very convenient.



1. Press button, a sign will appear at the button left corner of the screen, and the sound of the TV set is cutoff.



2. In order to recover the sound, press button again or press **VOL+/-**-button.

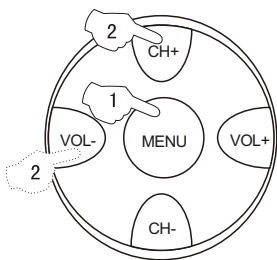
- This TV set provides you with three timer functions such as timer on, timer off and sleep off.

Timer off

Timer off

Using this function can turn the TV set automatically into standby status at the preconcerted time.

1. Press **MENU** button, until **TIMER** appears on the screen.

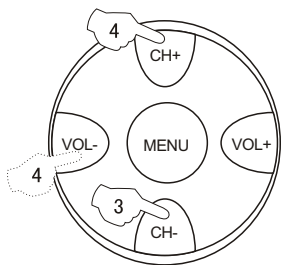


TIMER	
OFF TIMER	OFF
	19:00
ON TIMER	OFF
	22:00
POS	0
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

2. Press **CH+/-** button, move the indicator() to **OFF TIMER**, then press **VOL+/-** button to set it **ONCE**, **EVERY**, or **OFF**.

TIMER	
OFF TIMER	ONCE
	19:00
ON TIMER	OFF
	22:00
POS	0
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

3. Press **CH-** button, move the indicator() to the next row. Then, press **VOL+/-** button to set the time.



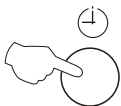
TIMER	
OFF TIMER	ONCE
	19:30
ON TIMER	OFF
	22:00
POS	0
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

4. Press **CH+/-** button, move the indicator() to **CLOCK**, press **VOL+/-** button, and you can set the time (It will be the standard of the clock of **TIMER ON/OFF**).

TIMER	
OFF TIMER	ONCE
	19:30
ON TIMER	OFF
	22:00
POS	0
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

Setting the Timer (continued)

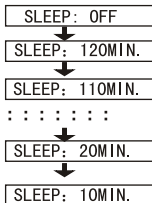
Sleep timer and timer on



Sleep timer

Using this function, the TV set can be changed into the standby status after a period of preset time from when this function is activated.

1. The utmost time for this function is 120 minutes, and the time interval is 10 minutes. There are totally 12 kinds of off-time.



2. Press the button repeatedly, the screen will show in turn as the right form.

Timer on

When this function is used, the TV set can automatically turn the power on at the preset time in the standby status and display the preset program.

1. Press **MENU** button, until **TIMER** appears on the screen.

2. Press **CH+/-** button, move the indicator() to the **ON TIMER**, then press **VOL+/-** button to set it **ONCE**, **EVERY** or **OFF**.

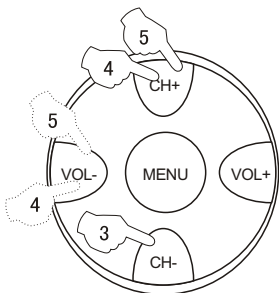
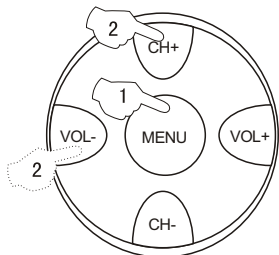
TIMER	
OFF TIMER	EVERY 19:00
ON TIMER	EVERY 22:00
POS	0
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

3. Press **CH-** button, move the indicator() to the below. Then, press **VOL+/-** button to set the time.

4. Press **CH+/-** button, move the indicator() to **POS 0**, press **VOL+/-** button to set the channel with which the TV is turned on (take 5 for example).

TIMER	
OFF TIMER	EVERY 19:00
ON TIMER	EVERY 22:00
POS	5
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

5. Press **CH+/-** button, move the indicator() to **CLOCK**, press **VOL+/-** button, and you can set the time (same as **TIMER OFF** and it will be the standard of the clock of **TIMER ON/OFF**).

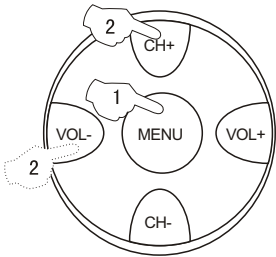


Setting the Timer (continued)

- The channels appointment function can help you conveniently preset as many as six programs at a time. At the preset time, the TV set will automatically change to the preconcerted channel. If two or more programs are set in a same time, the last channel number will be selected.

Channels appointment

Channels appointment



1. Press **MENU** button, until **TIMER** appears on the screen.

TIMER	
OFF TIMER	EVERY 19:00
ON TIMER	EVERY 22:00
POS	0
CLOCK	1:40
APPOINTMENT	→
SELECT	↑↓ADJUST←→

2. Press **CH+/-** button, move the indicator (⏸) to **CLOCK**, press **VOL+/-** button, and you can set the time (same as standard of the clock of **APPOINTMENT**).

APPOINTMENT	
POS	TIME
100	OFF
000	OFF
000	OFF
000	OFF
000	OFF
000	OFF

3. Press **CH+/-** button, move the indicator (⏸) to **APPOINTMENT**, then press **VOL+** button to enter the sub-menu.

APPOINTMENT	
POS	TIME
100	OFF
000	OFF
000	OFF
000	OFF
000	OFF
000	OFF

4. Press **VOL+/-** button to set the channel number you want (e.g. 100).

5. Press **CH-** button to enter the TIME item. Press **VOL+/-** button to set the time.

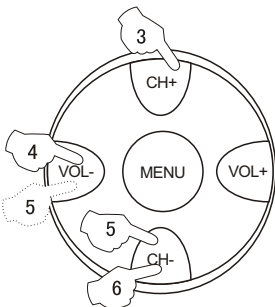
- Repeatedly press **VOL+/-** button, the time changes with a rate of one minute;
- Press the button without releasing, the time changes with a rate of ten minutes.

APPOINTMENT	
POS	TIME
100	12:58
000	OFF
000	OFF
000	OFF
000	OFF
000	OFF

6. Press the **CH-** button, and follow the instructions of step 4 and 5, you can do the setting of the next channel.

7. Press **DISP** button to exit the **TIMER** menu.

- At the preset time, the TV set will automatically change to the preconcerted channel;
- This function is available only when the TV set is on, and it cannot be used in the status of standby or power off.

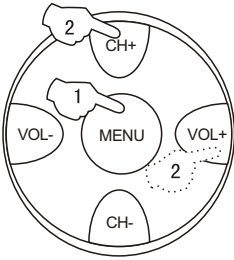


Setting the other Function

Language and Screen protection

How to select the language on the screen

1. Press **MENU** button, until **FUNCTION 1** appears on the screen.



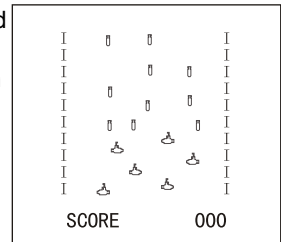
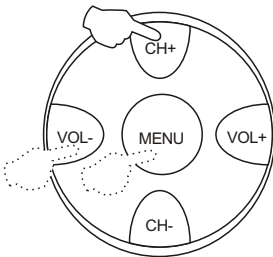
FUNCTION 1	
LANG.	ENGLISH
CURTAIN	
LOW VOL	00
NORMAL VOL	00
HIGH VOL	00
VOL STORE	OFF
SELECT ↑↓ADJUST←→	

2. Press **CH+/-** button, move the indicator() to **LANG.**, then press **VOL+** button to select the language and the menu on the screen will be displayed with the language you select.

Notice: This function is not available, It only shows that the menu on the screen will be displayed with English.

How to activate the function of screen protection

If no signal has been received by the TV set, when the **B.B** function is set **ON**, the screen will change into the form on the right shows (game background).

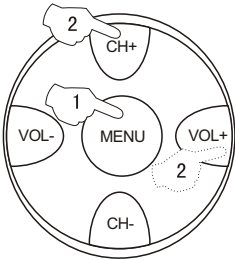


Press **MENU** button, until **PICTURE** appears on the screen. Then press **CH-** button to move the indicator () to **B.B.**, and press **VOL+/-** button to set it **ON**.

PICTURE	
CONTRAST	100
BRIGHT	50
COLOR	50
SHARP	50
B.B.	ON
SELECT ↑↓ADJUST←→	

Setting the other Function(continued)


Curtain function and calendar display



How to use the Curtain function

- This TV set provides three types of Curtain function for you to select.






1. Press the **MENU** button, until the **FUNCTION 1** appears on the screen.

2. Press **CH+/-**, and move the indicator() to **CURTAIN**, then press **VOL+** to select from I, II and III.

I: curtain

II : fade in and fade out

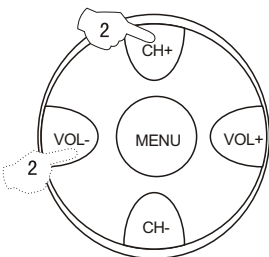
III: mixed I and II

FUNCTION 1	
LANG.	ENGLISH 1 n g
 CURTAIN	III
LOW VOL	00
NORMAL VOL	00
HIGH VOL	00
VOL STORE	OFF
SELECT   ADJUST  	

How to use the CALENDAR function

- This TV set has been designed to store the calendar from the year 1901 to 2050.

CALENDAR



1. Press the **CALENDAR** button and then the calendar will appear on the screen(Press the **CALENDAR** button again to conceal the display).

OCT 2002						
SU	MO	TU	WE	TH	FR	SA
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
YEAR   MONTH  						

2. Press **CH+/-** button to adjust the **YEAR**, press **VOL+/-** button to adjust the **MONTH**.

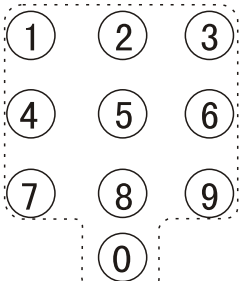
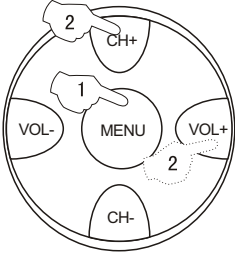
Setting the other Function(continued)

- The function of channel exchange will enable you to exchange any two programs and you can conveniently adjust the order of the programs due to your own need.

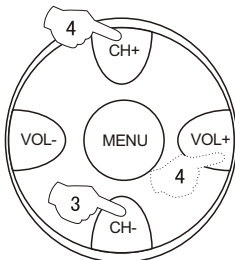
Channel exchange

Channel Exchange

(for example, to change between channel1 and 9)



Direct-digit Choosing Button



1. Press **MENU** button, until **FUNCTION 2** appears on the screen.

FUNCTION 2	
⏪ SUBMARINE	→
POS.EX.	→
S.C.C	OFF
COUNT	0:00
SELECT ↑↓ADJUST↔→	

2. Press **CH+/-** button, move the indicator(⏪) to **POS.EX.**, Then press **VOL+** button to enter the sub-menu.

⏪ POS.EX.	
EX.POS1	1
EX.POS2	1
EXCHANGE	?
RETURN	→

- The number shown in **EX.POS1** and **EX.POS2** is the number of the present channel.

3. Press **CH+/-** button, move the indicator(⏪) to **EX.POS2**, then press **VOL+** button to set the channel number to 9.

⏪ POS.EX.	
EX.POS1	1
EX.POS2	9
EXCHANGE	?
RETURN	→

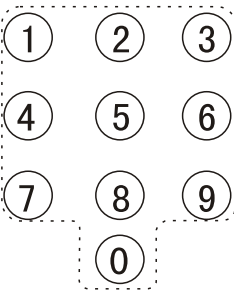
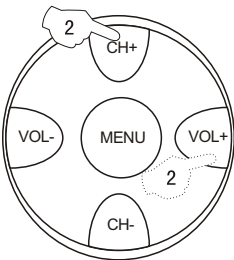
4. Press **CH+/-** button, move the indicator(⏪) to **EXCHANGE**, then press **VOL+** button to confirm. Then the programs of the two channel will be exchanged.

9	
---	--

Setting the Lock

- This TV set provides you with the LOCK function, you can choose it due to your need to protect your TV set.

Changing your password

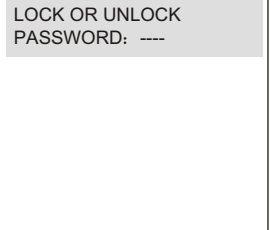



Direct-digit Choosing Button

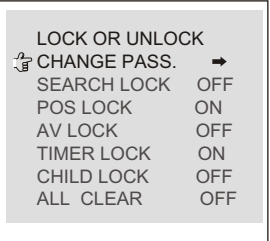
Changing your password

This TV set can set a four digit password, the original one is 0000, if you want to reset it, please follow the instructions below.

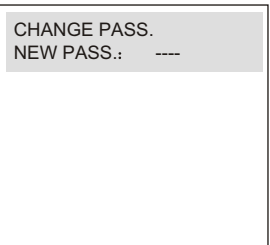
1. Press **LOCK** button, the screen will show as the form on the right.



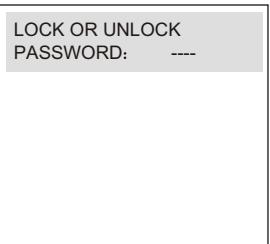
2. Press the 0 button four times, and enter the menu of **LOCK** setting. Press CH+/- button and move the indicator (the ) to **CHANGE PASS.**, and press **VOL+** button to enter the sub-menu of change password.



3. Press the Direct-digit Choosing button and input a four-digits password.

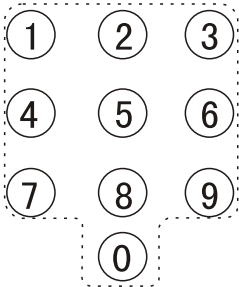
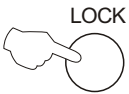


4. After inputting the new password, return to the original status as shown on the right form, then, you can input the new password to enter the menu of **LOCK** setting.

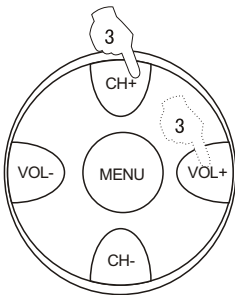


Setting the Lock(continued)

Setting the Lock



Direct-digit Choosing Button



Setting the Lock


There are **SEARCH LOCK**, **POS LOCK**, **AV LOCK**, **TIMER LOCK** and **CHILD LOCK** five lock setting, you can set it due to your need.

1. Press the **LOCK** button, the screen will show as the form on the right.

LOCK OR UNLOCK
PASSWORD: ----

2. Press the Direct-digit Choosing button 0 for four times(or input the password you set), and enter the menu of **LOCK**.

LOCK OR UNLOCK	
CHANGE PASS.	→
SEARCH LOCK	OFF
POS LOCK	ON
AV LOCK	OFF
TIMER LOCK	ON
CHILD LOCK	OFF
ALL CLEAR	OFF

3. Press **CH+/-** button, move the indicator() to **SEARCH LOCK**, then press **VOL+** button to set it **ON** or **OFF**.

Note:

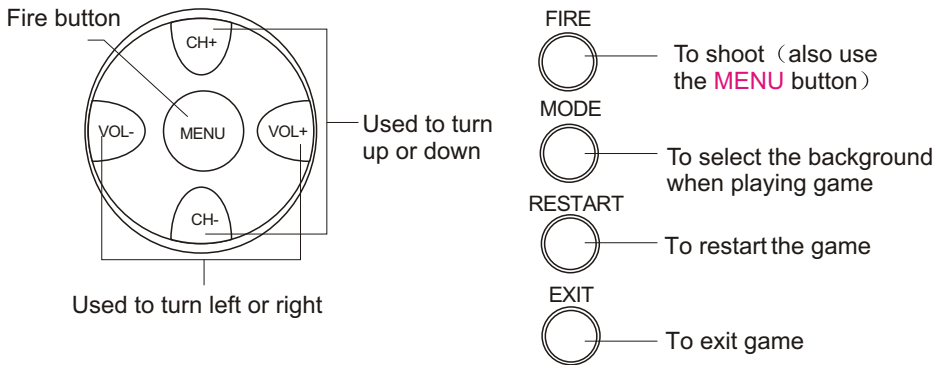
1. When the **CHANNEL** or **AV LOCK** is set **ON**, the channel or av cannot be used, hence the screen will change into black and indicate that it has been locked. The TV set will be in the state of mute.
2. When the **CHILD LOCK** is set **ON**, if the buttons on the TV are pressed, it will indicate that the TV set is in the status of **CHILD LOCK**, and the buttons won't work.
3. When the **SEARCH LOCK** or the **TIMER LOCK** is set **ON**, if you want to enter the **TUNING** or **TIMER** menu, you will have to type the password.

Game

- This TV set provides you with the SUBMARINE game, after entering the game, except the buttons that are appointed in the game (for example, the game button, VOL+/- and CH+/-, etc.) and the DC Standby button, the other buttons cannot be used.

Game control buttons and method of playing the game

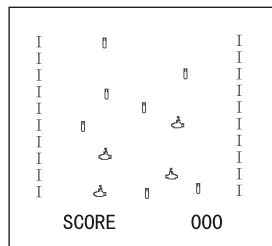
Game control buttons



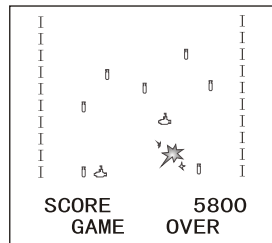
Method of playing the game

1. Press **MENU** button until **FUNCTION2** appears on the screen. Press the **CH+/-** buttons to select the **SUBMARINE** item. Then press **VOL+** button to start the game.

2. On the screen, the submarine figures in yellow is operated by you. Press **CH+/-** and **VOL+/-** buttons to move the submarine up, down, left or right to change the position and avoid the attacks from submarines (in blue, green and purple) of an enemy. Press **MENU** or **FIRE** button on the remote control to fire. You will get a mark of 100 when you destroy an enemy submarine or a shell. Specially, when you shoot down a red submarine appears on the top row, you will get a mark of 1000! Scores will be filed if the submarine of an enemy is destroyed.



3. You can press the **RESTART** button to restart the game when it is **GAME OVER** or during the process of the game.



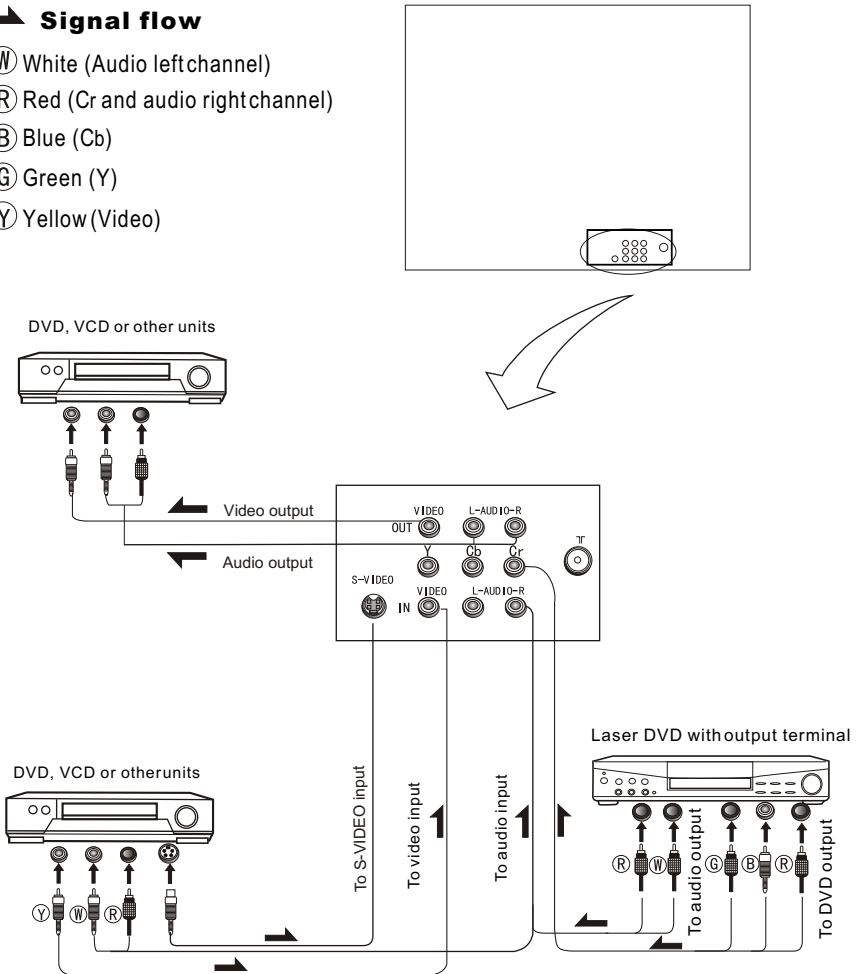
Connecting Additional Equipments

Connecting additional equipments

- You can connect the DVD, VCR and stereo system to the AV output to enjoy a higher quality of picture and sound effect.

➤ Signal flow

- Ⓜ White (Audio left channel)
- Ⓡ Red (Cr and audio right channel)
- Ⓟ Blue (Cb)
- Ⓞ Green (Y)
- Ⓜ Yellow (Video)



Note: About the terminals

- You should only connect S-VIDEO or VIDEO terminal when you use the first AV terminal . Do not connect the both at the same time .

Troubleshooting

- Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptom	Check these things
TV is not turned on	<ul style="list-style-type: none"> • Be sure the power cord is plugged in.
Good picture, no sound	<ul style="list-style-type: none"> • The MUTE function may be used. • Adjust the volume of the TV set.
Poor color / tint, good sound	<ul style="list-style-type: none"> • The contrast, color and tint may be incorrectly adjusted. • If you change the direction of the TV while the TV is on, the picture may suffer from color shading. If so, turn off the TV and allow about 30 minutes to cool, then turn on the TV again.
Spots appear on the screen	<ul style="list-style-type: none"> • The broadcast signal may be jammed by other electrical sources such as cars, motorcycles, electric trains, high tension lines, neon signs, hair dryers.
Lines appear on the screen	<ul style="list-style-type: none"> • The broadcast signal may be jammed by other TV receivers, personal computers, and TV games, as well as interference from radio stations.
Double images or ghosts	<ul style="list-style-type: none"> • Interference may be due to broadcast waves reflected from mountains or buildings. • Check if the direction of the antenna is changed.
Snowy picture or black screen	<ul style="list-style-type: none"> • The antenna may be disconnected or falling out. • Check if the direction of the antenna is changed.
Remote control does not work	<ul style="list-style-type: none"> • The batteries in the remote control may be exhausted. • The batteries may be improperly installed. • Check if there are obstacles between the remote control and the remote (infrared ray) receiver. • Check if there is strong light interference around the remote (infrared) receiver. • Check if the main power is ON.

The following conditions are not troubles

Clacking noise inside the receiver	<ul style="list-style-type: none"> • It may result from the expansion of the shell caused by a temperature change. This will not affect the picture and sound quality.
Uneven colour in a certain portion of the screen	<ul style="list-style-type: none"> • If the picture is too bright, this may occur according to the nature of the pictures. Reduce the contrast, and it may resume to normal.

CAUTION

In case of problems, have your TV serviced by qualified personnel. Never attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards.

Specifications

- The specifications offered you here are only for reference and, with the improvement of the products, there may be some different between the description and the practicality.

Specifications

Color system	PAL、AV NTSC3.58、NTSC4.43		
Sound system	DK(BG,I,M)		
Sound output power	3W		
Size (mm)	576 (W) x491 (D) x441 (H) (mm)	21FA1/21TA1/21TA1(S) /21TA1(D)/21TA1(B)/21TA1(BG)	
	576 (W) x475 (D) x458 (H) (mm)	21F9K	
	603 (W) x475 (D) x430 (H) (mm)	21F9D/21T9D/21T9D(S) /21T9D(D)/21T9D(B)	
	424 (W) x344 (D) x343 (H) (mm)	HT-3768/37T6D-T	
	365 (W) x375 (D) x345 (H) (mm)	HT-3728	
	410 (W) x365 (D) x348 (H) (mm)	15F6B	
	472 (W) x620 (D) x454 (H) (mm)	21F7A	
Accessories	Remote control	X1	Warranty card X1
	Owner's manual	X1	Battery(AA) X2
	Circuit diagram	X1	

MODEL	Picture tube	Power consumption
HT-3728 HT-3768	14" color picture tube(the viewable dimension is 34cm)	≤ 60W
15F6B	15" color picture tube(the viewable dimension is 34cm)	≤ 70W
Other models	21" color picture tube(the viewable dimension is 51cm)	≤ 70W

- Warranty card and circuit diagram are only for the special country or area.

Power supply input list

Country or Area	Power supply input
Korea	~90V-240V, 50/60Hz
Mongolia, Moldova, Cyprus, Russia, Turkmenstan, Ukraine, Latvia, Bulgaria	~150V-250V, 50Hz
Jordan, Oman, UAE, Lebann, India, Yemen, Kuwait, Bahrain	~160V-250V, 50/60Hz
Indonesia	~150V-240V, 50Hz or ~150V-250V, 50/60Hz
Philippine ,Srilanka, Bengal	~150V-240V, 50/60Hz
New Zealand, Australia, Malaysia	~150V-250V, 50/60Hz
Hong Kong, Algeria, Nepal, Turkey	~220V, 50Hz
Yugoslavia	~220V-230V, 50/60Hz
Saudi Arabia, Pakistan	~90V-250V, 50/60Hz

- The actual voltage and frequency of the TV set is different for the country or area.

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