

Contents

.....Contents

- 1. Getting Started 2**
 - 1.1 Features 2
 - 1.2 Accessories 3

- 2. Cautions and Attentions 4**
 - 2.1 When Install 5
 - 2.2 When Utilizing 6
 - 2.3 When Cleaning 8

- 3. Installation of USB Karaoke and Explanation of Each Parts 9**
 - 3.1 Name of Each Part 9
 - 3.2 Basic Connection 14
 - 3.3 Usage of Remote Controller 17
 - 3.4 Microphone Connection 20

- 4. Operations 21**
 - 4.1 USB Operations 21
 - 4.2 Special Operations 22

- 5. Initial Setting 24**
 - 5.1 General settings 24
 - 5.2 Speaker settings 25
 - 5.3 Audio settings 26
 - 5.4 Karaoke settings 27
 - 5.5 Basic conditions 28

- 6. For Your Reference 29**
 - 6.1 Trouble shooting 29

- 7. Specifications 30**



Getting Started

1.1 Features

■ Karaoke Function

You can enjoy home karaoke. This is the USB model.

■ 24bit/96KHz Audio D/A Converter

To maximize superior audio quality, convert to analog from digital is necessity process. This unit replay Dynamic Range and Zero Cross Distortion by 24bit/96KHz audio convert technology.

■ 10bit Video D/A Converter

The unit adopts 10bit video D/A convert technology to reproduce the highest video quality. It is not like the exist 8bit circuit, 10bit circuit convert the standard 8bit component signal to 10 bit signal and replays same as the original one.

Notes

This unit is designed for home appliance with good appearance, high quality, function and user's convenience also.

1.2 Accessories

Check and identify the supplied accessories



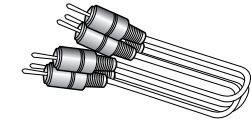
Remote Control Unit : 1



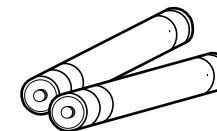
Adaptor(12V/2A) : 1ea



Video/Audio Cable : 3 Terminal:1 set



Batteries for remote control unit (Size "AAA") : 2ea



User's Manual : 1 vol








Cautions and Attentions




Point of notice for safety

To utilize the unit as a safe and properly and to precaution the risk or physical damage, please read this manual carefully and follow the instructions. After reading, please keep it at the safe place for the future reference.

The meaning of the signs


-  **Danger** This sign says "it contains the possibility the fire or death Or severe wound."
-  **Warning** This sign says "it contains the possibility death or severe Wound."
-  **Caution** This sign says "it contains the possibility the injuries or Physical damages."

Examples of sign


Risk of Electric shock		This sign is for danger, warning, caution. (The drawing means, risk of electric shock)
Do not disassembly		This sign is for prohibition of actions. (The drawing means, do not disassembly)
Unplug The power cord		This sign is for the items which must be kept. (The drawing means, unplug the power cord)


2.1 When Install


Danger

-  **Prohibition**
 - Do use AC 110V to 220V power outlet only.
 - If not, it may cause fire, electric leakage or electric shock.


Warning

-  **Prohibition** Do not install the unit at the places which make extreme vibration or be inclined.

-  **Prohibit the Humidity** Do not install the unit in high humidity.
and do not place the vase or any watered materials on top of the unit

-  **Forced**
 - When you connect the unit to the other peripherals, Please try after read each instruction guide. If not, It may cause fire, electric leakage or electric shock.
 - Install the unit in a safe and endure the unit's weight. Do not install the unit in the shake place or higher place. It may cause unit damage.
 - Install the unit with enough space from the wall or other materials. Especially please keep more than 10cm from the wall. If not, It may cause fire, electric shock.

Caution

-  **Prohibition**
 - Do not install around electric heater or heat source. Especially, Do not place the power cord of adaptor close to electric heater. It may cause fire, electric leakage or electric shock.
 - Do not hurt or damage the power cord of adaptor and not place any materials which can damage the power cord of adaptor. If not, It may cause fire, electric leakage or electric shock.
 - Do not install in the severe temperature change area. If not, It may cause fire, electric leakage or electric shock.
 - Do not plug the power cord of adaptor before the installation Finished. It will be caused fire or unit malfunction.
 - Do not install under the direct ray of lights. It will be caused electric leakage, electric shock. Also caused deformation or discoloration of the product.
 - Do install TV set(monitor) with a certain distance from the speaker unit since it can get magnetic forces easily.

2.2 When Utilizing

Warning



Prohibition

- Do not pour the water into the product or avoid the product from the wet. It may cause fire, electric leakage or electric shocks.
- Do not put any metals such as hairpin, coin or the materials which can be burned into the unit. It may cause fire, electric leakage or electric shocks.
- Do not put the container with the water or metals on top of the unit. It can be get into the unit and may cause fire, electric leakage or electric shocks.
- Do not deform, twist, bent or heat the power cord of adaptor.
- Do not touch the unit or the power cord of adaptor with wet Hands. It may cause fire, electric leakage or electric shocks. Also the unit can be damaged.



Unplug
the power cord

- When you hear some strange sound or smell or smoke something, shut off the power immediately (Use thick gloves or dry cloth) and unplug the power cord of adaptor.



Prohibit
Touches

- Do not touch the power cord of adaptor when thunder or lighten.
- Using the power plugs and couplers as a disconnect device should be easy to operate.

Caution



Prohibition

- Do not insert the multi plug into one outlet. If you must do, do not exceed total power more than 200W. especially, do not use with electric heater, Monitor, TV set, hair dryer, electric cooker absolutely. It may cause fire from electric leakage.
- Do not unplug the power cord of adaptor with cord itself, use cord head. It may cause fire, electric leakage or electric shocks due to the power cord of adaptor trouble.
- Do not utilize the damaged the power cord of adaptor or the outlet is not fixed firmly. It may cause fire, electric leakage or electric shocks.
- Do not put the product on amplifier. Also it may cause fire, electric shock from the flame of the components
- Do not impact on microphone severely. Also it may cause deterioration or damage of the product When you close to speaker unit, it will make strange sound.
- Do not install in the dust area. it may cause fire.
- Do not close the ventilation which is located topside. Also Do not place the product badly ventilated. it may cause fire.

2.2 When Utilizing

Caution



Prohibit

- Do not spray water, beverages, alcohol to the unit. It may cause fire, electric leakage or electric shocks.
- Do not step or hang on the unit. Especially, keep out of reach of children. It can be injured if the unit is fall down or destroyed.
- Do not throw the bundled accessories toward people. It can be injured.
- Do not move the unit when something is on the topside. It can be injured if the unit is fall down or destroyed.
- Do not push the buttons by force. The unit can be damaged.



Unplug
the power
cord

- Unplug the power cord of adaptor when the unit is not used for a Long time. It may cause fire.
- If the unit is fallen down or chassis is damaged, turn power off the unit, unplug the power cord of adaptor. If you use as it is, It may cause fire, electric leakage or electric shocks.
- When moving the unit, unplug the power cord of adaptor and disconnect all the peripheral devices. It may cause fire, electric shock if the power cord of adaptor is damaged.



Caution

- Before you turn the power on, reduce the volume to minimize. Loud sound can damage to your hearing.



Do not
disassembly

- Do not disassemble or remodel the unit. It may cause fire or electric shock.
- The company has not responsibility all kinds of accidents by unauthorized person's activities.



Installation of USB Karaoke and Explanation of Each Parts

2.3 When Cleaning



Forced

- When you clean the exterior of the unit, Do not use water, gasoline, benzene or thinner. Also do not spray Insecticide around the unit.



Caution

- Clean the interior of the unit in every year and consult with your distributor for cleaning.
- It may cause fire or unit malfunction when the excretions of insects accumulate in the interior.

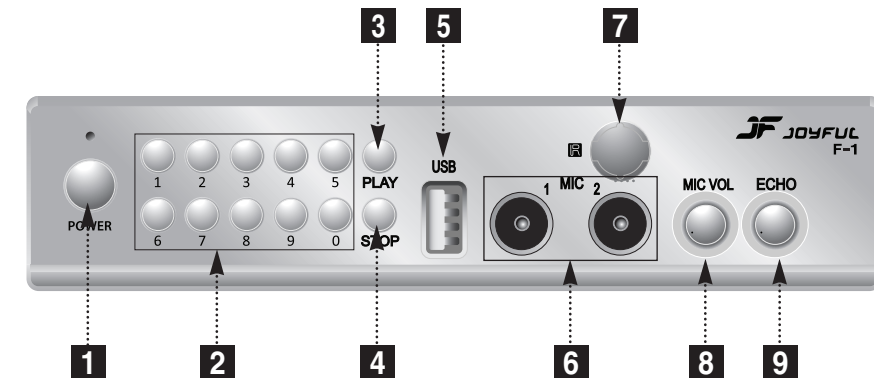


Unplug the power cord

- When you cleaning, turn power off and then unplug the power cord of adaptor. It may cause electric shock.

3.1 Name of Each Part

Front Panel



1 Power button

Plug the power cord to the wall outlet and press this button to supply power to the unit. Press again, power will be shut off.

2 Numeric buttons

It is to input numbers what you want.

3 Play button

Press this button to play

4 Stop button

Press this button to stop play.

5 USB terminal

Connect this terminal to USB memory.

6 Microphone Jack

Plug the microphone into this microphone jack. You can use 2 microphones at the same time.

7 Remote sensor

It receives the infrared signal from remote controller.

8 Microphone volume

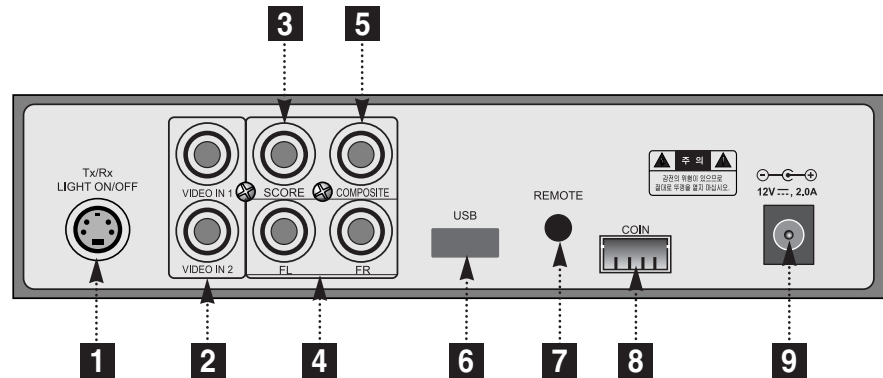
A knob which adjusts the ratio of microphone input. Turn the knob clockwise for increasing the volume, turn the knob anticlockwise for decreasing the volume.

9 Echo volume

A knob which adjust the echo effect of microphone input. Turn the knob clockwise for increasing the echo effect and turn the knob anticlockwise for decreasing the echo effect.

3.1 Name of Each Part

Rear Panel



1, 3, 8 Commercial Interface

It is reserved for commercial use. (score, light, coin)

2 Not support Terminal

4 2ch Analog Audio Output Terminal

Connect this terminal to amplifier which has 2ch analog input terminal.

5 Composite Video Output Terminal

Connect this terminal to composite input terminal of TV or monitor.

6 USB Terminal

Connect this terminal to USB memory. This terminal supports karaoke mode.

7 Remote In Terminal

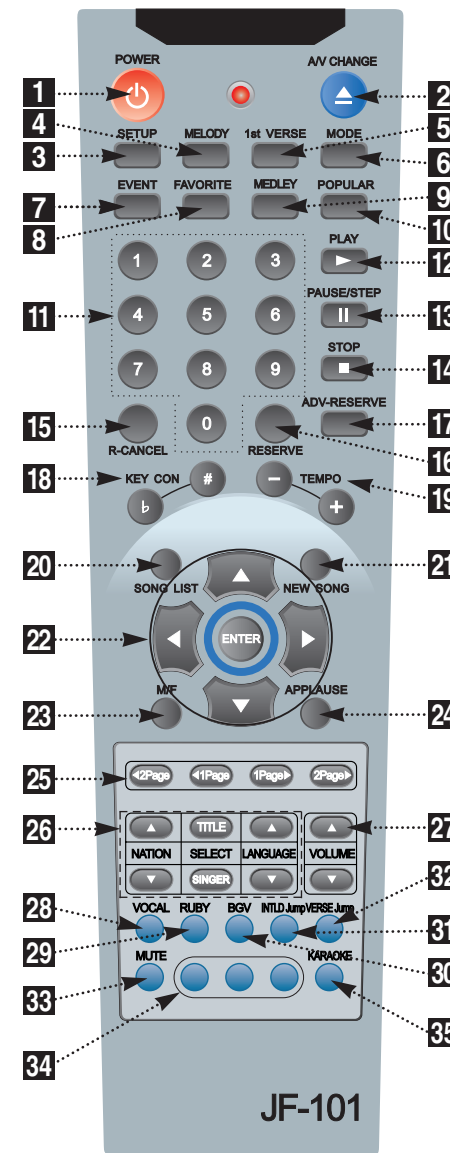
Insert the remote sensor that is offered on option to Remote In Terminal.

9 Power Input

First connect the adaptor to the this terminal and then plug the power cord of adaptor in the wall outlet.

3.1 Name of Each Part

Remote Controller



1 Power button

This button converts standby mode and power on.

2 A/V change

This button switches from A/V of this player to another player's.

3 Setup button

Use to change the configuration or setup of the system from the stop status.

4 Melody button

• **Karaoke** : To select the melody from the various melodies, press this button.

5 1st-Verse button

• **Karaoke** : When pressed, it plays only 1 section and stop. Press again, it returns one song mode.

6 Mode button

• **Karaoke** : There are four kinds of modes such as

One Song ▶ Repeat one

▶ Repeat All ▶ Random

• **USB** : Use to change the USB play mode. (Refer to page 21)

7 Event button

• **Karaoke** : Show the list of the Event songs and you can select one of them.

8 Favorite button

• **Karaoke** : Used for showing the list of song history and then you can play one of them.

3.1 Name of Each Part

Remote Controller

9 Medley button

- **Karaoke**: Show the list of the medley songs and you can select one of them.

10 Popular button

- **Karaoke** : Show the list of the popular songs and you can select one of them.

11 Numeric button

Use to enter the number what you want.

12 Play button

From the pause status, press this button to restart.

13 Pause/Step button

When you press this button the playing is paused from the play status.

14 Stop button

Press this button to stop the playing.

15 R-Cancel button

- **Karaoke** : After enter the number and then press this button to cancel song which is reserved already.

16 Reserve button

- **Karaoke** : To reserve the song, input the number and press this button. You can reserve max 10 songs.

17 ADV-Reserve button

- **Karaoke** : Enter the song number and then press this button to reserve the first priority.

18 Key Control button

- **Karaoke** : To increase tone, press # button, to decrease tone, press b button.

19 Tempo button

- **Karaoke** : Used for changing the tempo of the song. To increase tempo press + button, to decrease tempo, press - button.

20 Song List button

- **Karaoke** : To search the titles of song or singer to play.

21 New Song button

- **Karaoke** : Show the list of new music and you can play on of them.

22 Direction/Enter button

Use to select, set up, confirm of menu item.

23 Male Female button

- **Karaoke** : It selects the key for male and female.

24 Applause button

- **Karaoke** : When stopping, it generates applause once.

25 Page button

- **Karaoke** : In song list menu, you can search by every 1page or 2page by pressing this button.

26 Nation/Select/Language button

- **Karaoke** : This is song listing function.

27 Volume button

You can adjust the volume up / down.

3.1 Name of Each Part

Remote Controller

28 Vocal button

- **Karaoke** : When pressed, it disable the vocal function, press again it enabled.

29 Ruby button

- **Karaoke**: This function enables to set the screen display of ruby playing a song functioned with ruby.

30 BGV button

- **Karaoke** : You can change the background video by pressing this button.

31 INTLD jump button

- **Karaoke** : Pass over bridge music.

32 VERSE jump button

- **Karaoke** : Move current measure to next measure.

33 Mute button

You will have mute on/off alternatively at each time you press this button.

34 Not support button

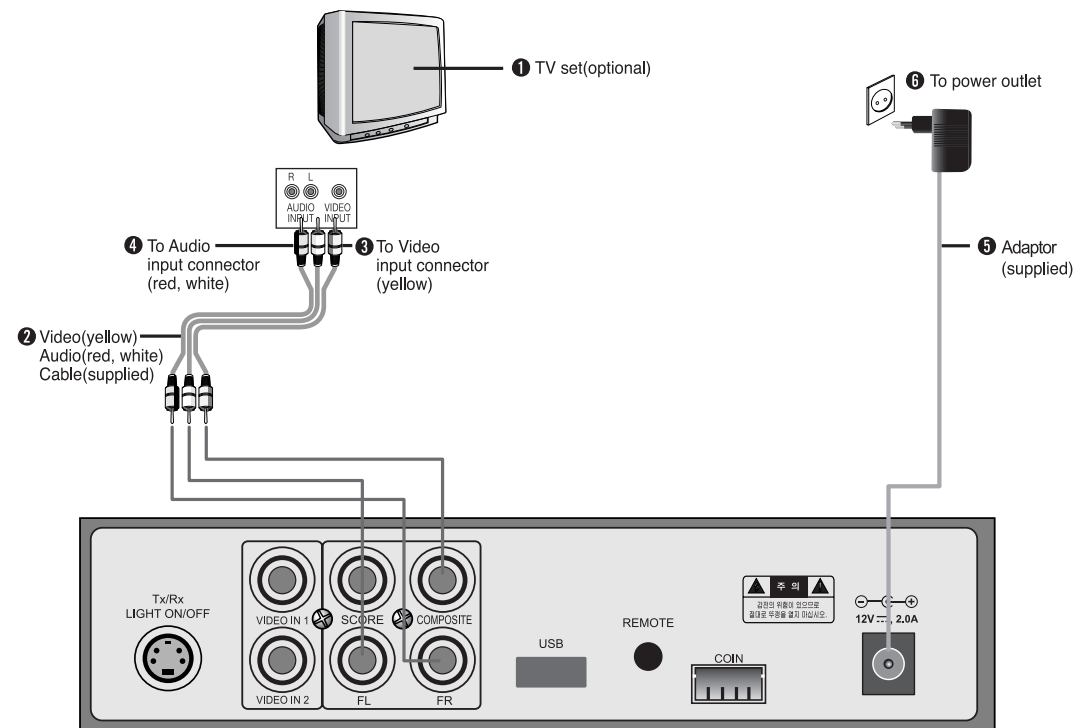
35 Karaoke button

It is used to quit karaoke.

3.2 Basic Connection

- Ensure that the power switch of other equipment be connected is set to off before commencing connection.
- Do not block ventilation holes of any of the equipments so that air can circulate freely.
- Read the instructions before connecting other equipments.
- Ensure that you observe the color coding when connecting audio and video cables.
- Select the appropriate screen type at the initial setting "TV" according to your TV set.

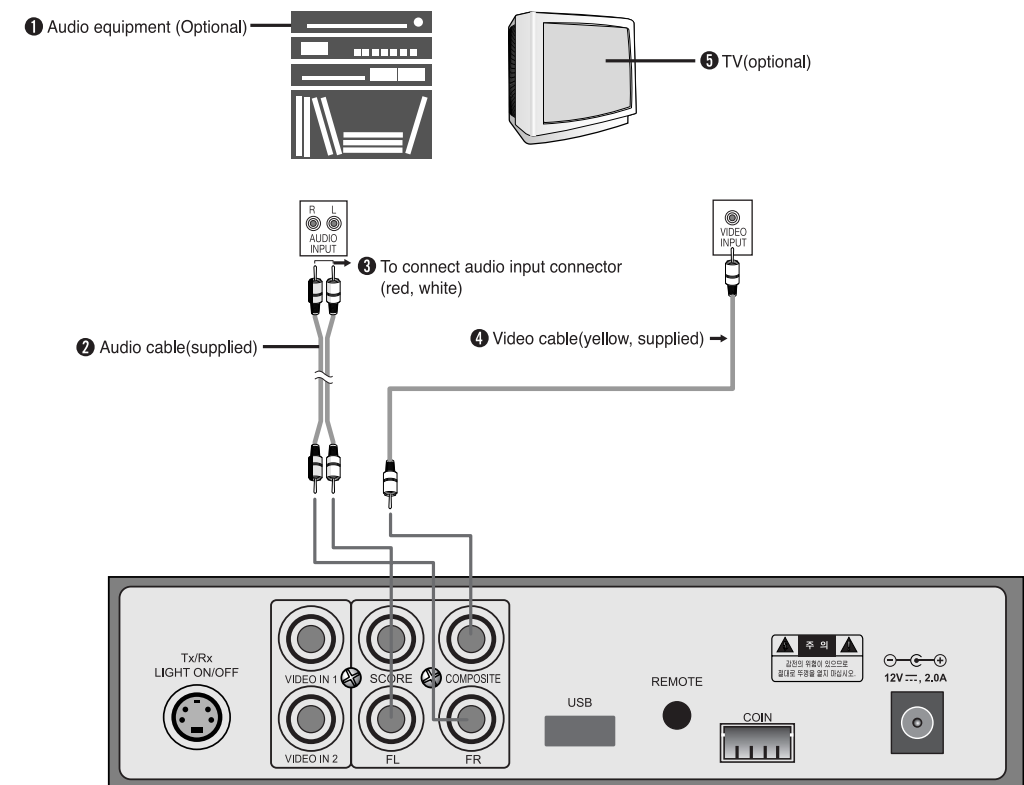
Connecting to a Stereo TV Set



3.2 Basic Connection

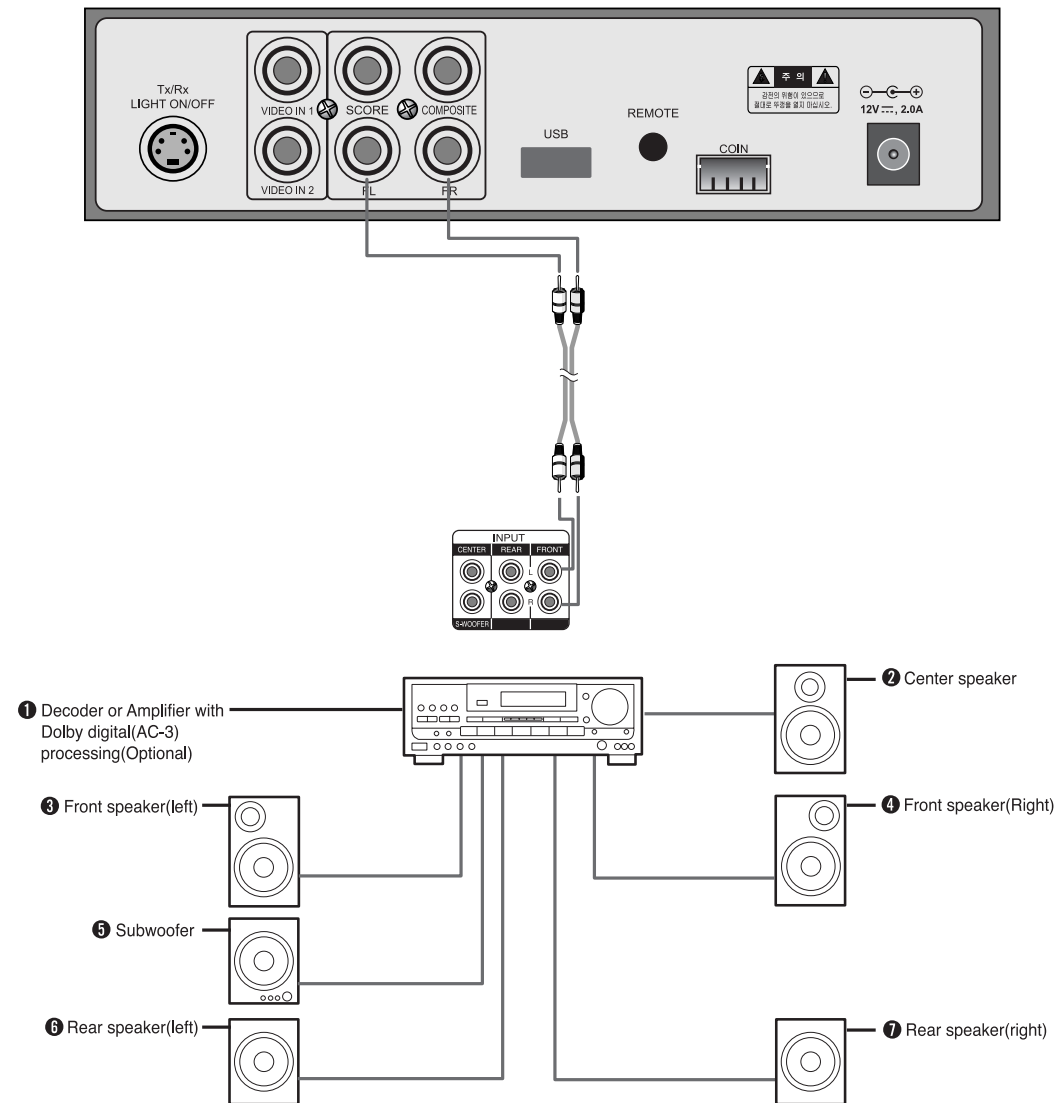
- * **Note** : 1. During play, the TV volume may be a lower level than TV broadcasts, In this case, adjusts the volume to the desired level.
2. If this machine is connected to the TV via a video cassette recorder, the picture may not be played. In this case, do not connect the player via the VCR.

Connecting to a Audio Equipment



3.2 Basic Connection

Connecting to the Amplifier has 5.1ch Input



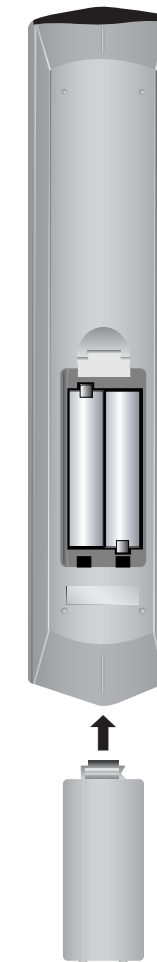
3.3 Usage of Remote Controller

Battery Installation

Insert the batteries after make sure the correct (+) and (-) polarities as illustrated as below.

Lifetime of batteries

- The batteries long last for about one year although it depends on how often, and for what operations, the remote control is used.
- If the remote controller fails to operate even it is operated near the machine, replace the batteries immediately.
- Use "AAA" batteries.



3.3 Usage of Remote Controller

Warning



- Do not charge the batteries. It may cause fire, wound.



- Keep out of reach of children. If children take them, they need to see a doctor immediately.

Warning



- Do not use unauthorized batteries. Do not mix old and new batteries. The leak of electrolyte may cause the injury, environmental pollution
- Do not attempt to short-circuit, the leak of electrolyte may cause the injury.
- Do not attempt to disassemble or throw into fire or water, The leak of electrolyte may cause the injury, environmental pollution



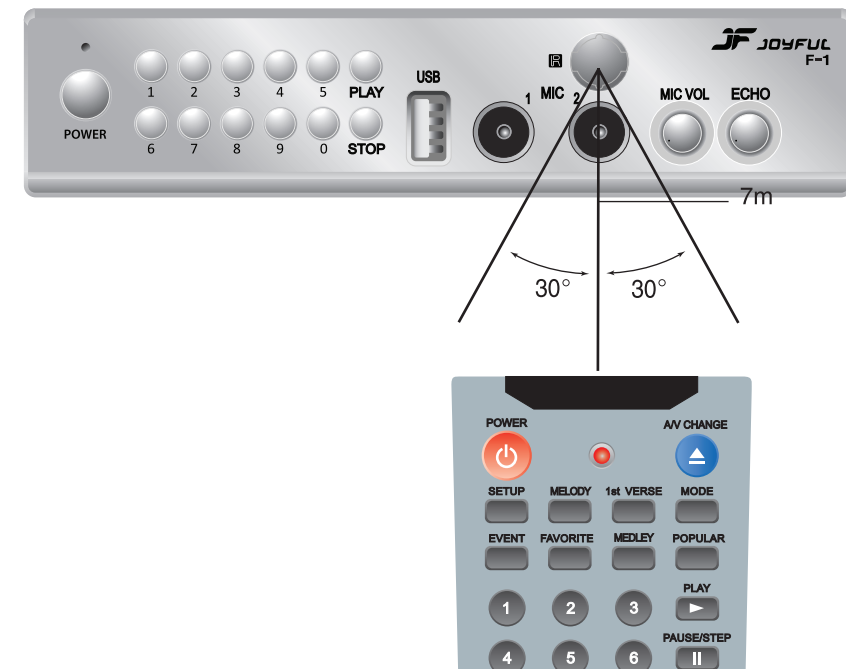
- Insert the batteries after make sure the correct (+) and (-) polarities. The leak of electrolyte may cause the injury, environmental pollution
- If the remote controller is not going to used for a long periods, remove the batteries, otherwise, electrolyte may leak and it may cause unit malfunction and environment pollution.
- Collect the spent batteries separately. Otherwise, it may Cause the environmental pollution.

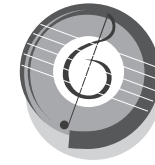
3.3 Usage of Remote Controller

Remote Controller Operating Range

- The remote controller unit should be with in 7m (23feet) and operating angle should be with in 60 degree at the front of the remote control sensor
 - The operating distance can be varied with the brightness of the room.
- * **Note** :
1. Do not flash the bright light.
 2. Do not place objects between the remote control sensor and remote controller.
 3. Do not use with the other remote controller.

The remote control sensor





Operations

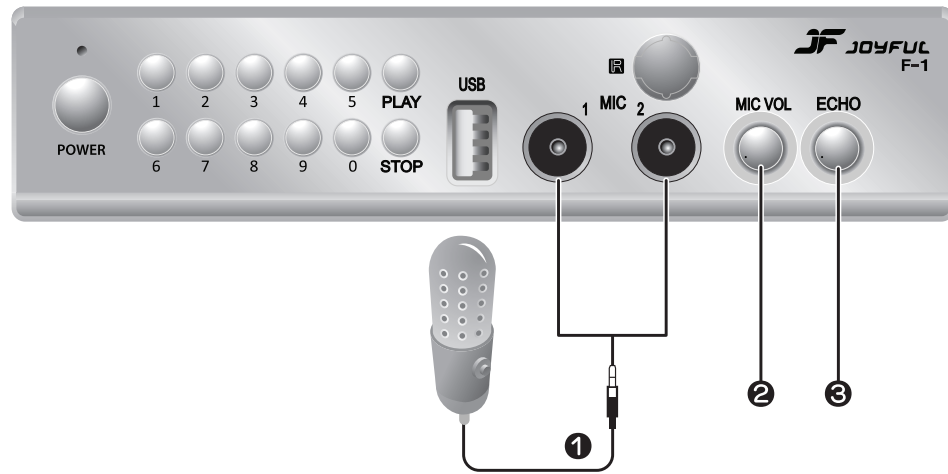
3.4 Microphone Connection

1 Connect the Microphone

- You can connect the microphone with 6.3mm stereo plug.

2 Adjust the Microphone Volume Level

3 Adjust the Echo Volume Level



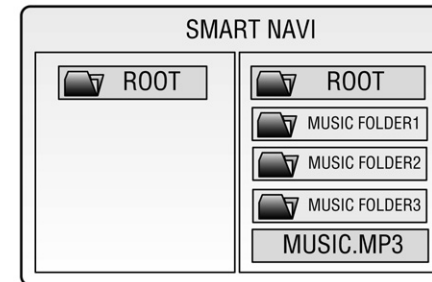
*** Note :** When you are using the microphone, be sure to connect analog audio output terminal. (It does not make any sound from the digital audio output terminal)

4.1 USB Operations

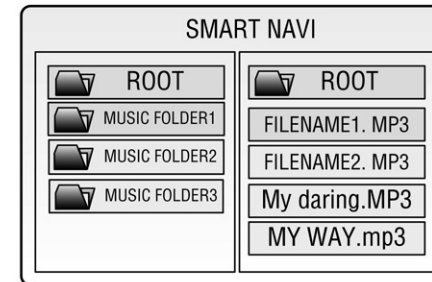
1 USB Memory

Once you insert the USB memory, smart navigation starts to operate automatically.

• Play



After pointing out desired title using ▲ or ▼ buttons, press the ENTER button.



If you want to choose a title existing in the folder, you can do it using ▲ or ▼ buttons and pressing ENTER button.

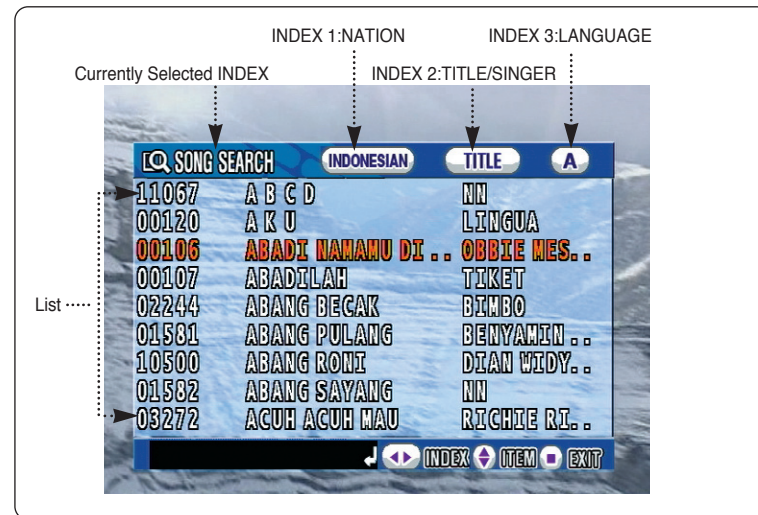
Play Mode

REP-ONE	Play repeatedly the selected song.
FOLDER REPEAT	Play the songs in the folder repeatedly in order.
DISC	Play the songs one by one.
DISC REPEAT	Play the songs repeatedly in order.
DISC SCAN	Play 10 seconds of each song.
SINGLE	Play the selected song once.
FOLDER	Play the songs in the folder one by one.

4.2 Special Operations

1 Song Listing Function

The function "Song List" enables easy search for desired song from the USB.



- You can change the searching index by pressing the nation, select and language button.
- When it is difficult to search desired song using only ▲ or ▼ button as there are too many song lists, then use 1 page or 2 pages button to search song lists by pages.
- If you have chosen a desired songs start or reserve the song by pressing ENTER or RESERVE button.
- Press STOP to close the menu.

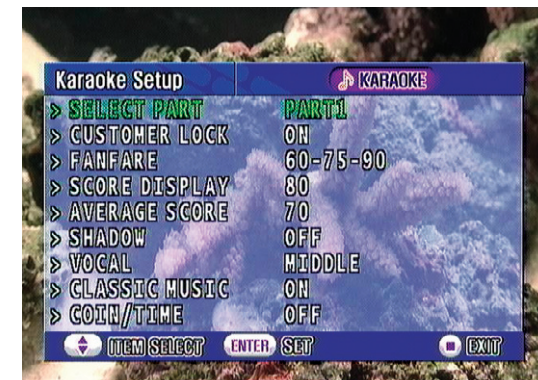
4.2 Special Operations

2 Karaoke Setup

The function is only available with USB Karaoke mode.

Various functions of the Karaoke can be set as desired along with "Karaoke INITIAL SETUP" function.

- 1 Enter your PASSWORD.(Initial password is '3308')
- 2 Displayed on the screen while setup mode appears on the screen by pressing "SET UP".



- 3 Press cursor Up(▲), Down(▼) buttons to move to "SETUP MENU" and then press ENTER button to select the desired item.
 - * **SELECT PART** : This function enables to set each karaoke part.
 - * **CUSTOMER LOCK** : This function enables to set Power or A/V change on/off.
 - * **FANFARE** : This function enables to set fanfare to come out after singing a song.
 - * **SCORE DISPLAY** : This function enables to set the grade of scores displayed in the screen.
 - * **AVERAGE SCORE** : This function enables to set the average score.
 - * **SHADOW** : This function enables to set the lyrics to be displayed in the black strips.
 - * **VOCAL** : This function enables to set the chorus to High, Middle, Low or off.
 - * **CLASSIC MUSIC** : This function enables to play classic music on standby mode.
 - * **COIN/TIME** : This function enables to set coin controller.
 - * **RUBY CONFIG** : This function enables to set the screen display of ruby playing a song functioned with ruby.
 - * **DEFAULT SETUP** : This function restores the settings to initial state of purchase.
 - * **GREET FUNCTION** : This function enables to display the announcement during the interlude.



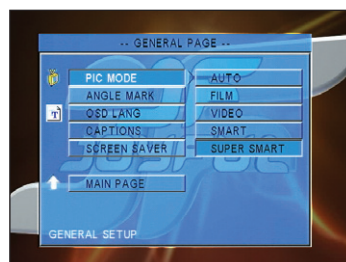
Initial Setting

5.1 General settings

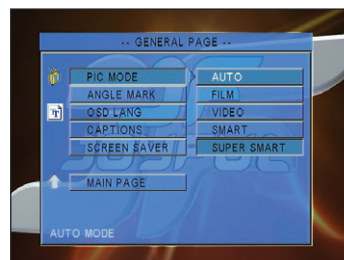
- 1 Press SETUP button in stopped or playback state.
- 2 Point out the SETUP by ▲ or ▼ buttons and press ENTER button.



- 3 Select desired setting by ▲ or ▼ button and enter the detailed setting with ► button.



- 4 Select a desired setting by pressing ▲ or ▼ buttons and press ENTER button to apply it.



- 5 You can come out of the detailed settings page by pressing ◀ button.

- **PIC MODE : IMAGE DETAILS SETTINGS**
AUTO Sets the screen resolution automatically.
FILM Setting for a film or a progressive
VIDEO Sets to the high Resolution Mode
SMART Sets to the high Resolution Mode that support the Progressive.
S- SMART Sets to the High Resolution Mode that supports the Progressive.
- **ANGLE MARK : CAMERA MARK**
 You can see contents filmed from different angles.

- **OSD LANG : SCREEN INDICATION LANGUAGE SETTING**
 You can select a language of the screen.
- **CAPTIONS**
 Translation of foreign dialogue of a movie.
- **SCREEN SAVER : SCREEN PROTECTOR SETTING**
 After certain duration of STOP/PAUSE state, screen protector starts to work.
- **MAIN PAGE : RETURN TO MAIN SETUP PAGE**
 You can return to the Main MENU on the SETUP page.

5.2 Speaker settings

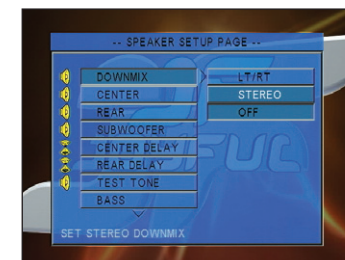
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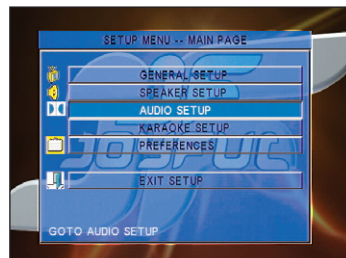
- 5 You can come out of the detailed settings page by pressing ◀ button.

- **DOWNMIX : AUDIO CHANNEL COMPOSITION**
 This allows you to have a proper Audio output.
LT/RT When connected to Dolby Pro Logic Decoder Amp.
STEREO When connected to STEREO Amp.
OFF It is able to setup for 5.1 channel audio.
- **CENTER : CENTRAL SPEAKER SETTING**
 You can set the central speaker for use by pressing ON button.
- **REAR : REAR SPEAKER SETTING**
 You can set the rear speaker for use by pressing ON button.
- **SUB WOOFER : SUB WOOFER SPEAKER SETTING**
 You can set the central speaker for use by pressing ON button.

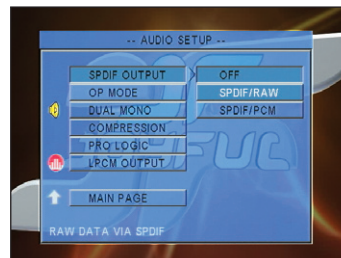
- **CENTER DELAY : CENTRAL SPEAKER DELAY SETTING**
 You can select central speaker's delay duration up to 0 ~ 5ms.
- **REAR DELAY : REAR SPEAKER DELAY SETTING**
 You can select rear speaker's delay duration up to 0 ~ 15ms.
- **TEST TONE : TEST TONE SETTING**
 You can select test tone's ON or OFF.
- **BASS : BASS SPEAKER SETTING**
 You can select bass speaker's config1 or config2.

5.3 Audio settings

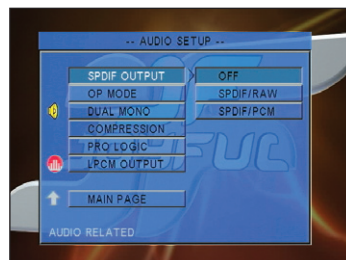
- 1 Press SETUP button in stopped or playback state.
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- 4 Select a desired setting by pressing ▲ or ▼ buttons and press ENTER button to apply it.



- 3 Select desired setting by ▲ or ▼ button and enter the detailed setting with ► button.



- 5 You can come out of the detailed settings page by pressing ◀ button.

5.4 Karaoke settings

- 1 Press SETUP button in stopped or playback state.
- 2 Point out the SETUP by ▲ or ▼ buttons and press ENTER button.



- 4 Select a desired setting by pressing ▲ or ▼ buttons and press ENTER button to apply it.



- 3 Press ► button.



- 5 You can come out of the detailed settings page by pressing ◀ button.

• SPDIF OUTPUT : SPDIF OUTPUT SETTING

- SPDIF/RAW** In case of Coaxial/optical output, connection to the Amp(Dolby digital/DTS) with digital decoder.
- SPDIF/PCM** In case of Coaxial output, connection to the Amp(channel 2) with digital decoder.
- OFF** Only analog audio output can be used.

• OP MODE

- LINE OUT** : Line out mode, with digital dialog normalization. DEFAULT
- RF REMOD** : RF remodulation mode, with heavy compression and digital dialog normalization.

• DUAL MONO SETTING

This is similar to the Multiplex television and can work only for the Disc designed for DUAL MONO program.

- **STEREO** Outputs proper channels through both right and left speakers.

► L-MONO

Outputs the channel of the left side through both right and left speakers.

► R-MONO

Output the channel of the right side through both right and left speakers.

► MIX-MONO

Outputs through both right and left speakers by mixing up two channels.

• COMPRESSION

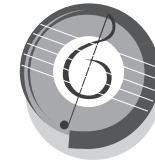
You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night. You can adjust the Compression effect which being greater of smaller.

• PRO LOGIC SETTING

There are three modes of OFF/ON/Auto.

• LPCM OUTPUT : LPCM OUTPUT SETTING

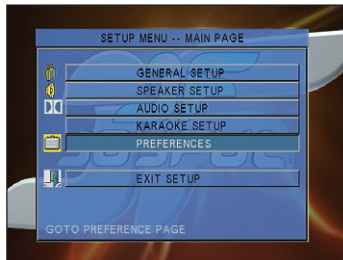
It uses the LPCM 48K/LPCM 96K format of Audio data.



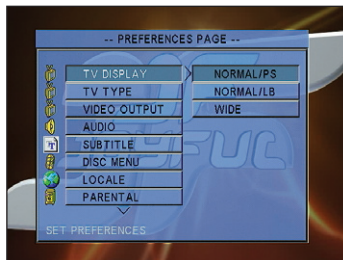
For Your Reference

5.5 Basic conditions

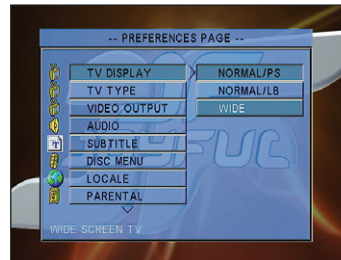
- 1 Press SETUP button in stopped or playback state.
- 2 Point out the SETUP by ▲ or ▼ buttons and press ENTER button.



- 3 Select desired setting by ▲ or ▼ button and enter the detailed setting with ► button.



- 4 Select a desired setting by pressing ▲ or ▼ buttons and press ENTER button to apply it.



- 5 You can come out of the detailed settings page by pressing ◀ button.

- **TV DISPLAY : TV SCREEN RATIO SETTINGS.**
 - NORMAL/PS** 16:9 Displays only the central part at the ratio of 4:3.
 - NORMAL/LB** 4:3 Although you can watch the 16:8 screen from the 4:3 screen, the upper and bottom parts appear black.
 - WIDE** You can enjoy 16:9 wide screen.
- **TV TYPE SETTING**
 - MULTI** Sets for Multiplex TV mode.
 - NTSC** Sets NTSC TV mode.
 - PAL** Sets for PAL TV mode.
- **VIDEO OUTPUT SETTING**
 - S-VIDEO** Sets the Output signals for S-VIDEO.
 - YPbPr** Sets the Output signals for YPbPr.
 - RGB** RGB.(Component)
- **AUDIO LANGUAGE SETTING**
 - You can play the contents in the language of your choice.
 - SUBTITLE LANGUAGE SELECTION** You can set the subtitle in the language of your choice.
- **SUBTITLE LANGUAGE SETTING**
 - You can set the subtitle in the language of your choice.
- **DISC MENU**
 - Where available - languages depend on disc.
- **LOCALE SETTING**
 - You can set your locale.
- **PARENTAL SETTING**
 - You can set the subdivision grades up to 9 levels. Higher levels are for the adults.
- **PASSWORD SETTING**
 - You set a password. Initial value is '3308'.
- **DEFAULTS SETTING**
 - You can restore the settings to initial state of purchase.
- **SMART NAV : MP3 NAVIGATION MENU**
 - You set the MENU contents for MP3.

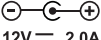
6.1 Trouble shooting

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Symptom (Common)	Remedy
• No power.	• Insert the power cord of adaptor securely into the power outlet.
• Play fails to start even when PLAY is pressed. • Play starts but then stops immediately.	• Condensation has formed: wait about 1 to 2 hours to allow the player to dry out.
• No picture.	• Ensure that the equipment is connected properly.
• No sound. • Distorted sound.	• Ensure that the equipment is connected properly. • Ensure that the input settings for the TV and stereo system are correct.
• No 4:3(16:9) picture.	• Choose the correct setup "TV" item which matches the TV set used.
• No operations can be performed with the remote control.	• Check the batteries are installed with the correct polarities (+ and -). • The batteries are depleted:replace them with new ones. • Point the remote control unit at the remote control sensor and operate. • Operate the remote control unit at a distance of not more than 7 meters(23 feet) from the remote control sensor. • Remove the obstacles between the remote control unit and remote control sensor.
• No key operation (by the unit and/or the remote control) is effective.	• Set the POWER button to OFF and then back to ON. Alternatively, turn off the power, disconnect the power cord of adaptor and then re-connect it. (The player may not be operating properly due to lightning, static electricity or some other external factor.)
• On-Screen Menu Icons not displayed or only partially displayed on the TV Screen.	• Select the appropriate TV screen type by consulting the operating manual for the TV.



Specifications

Classification	Description	
System	USB Karaoke Player	
Input Terminal	MIC	10mV(600 Ω), 2EA
Output Terminal	Video	Video Out Terminal 1Vp - p(75 Ω)
	Audio	2Vrms
Power Supply	Adaptor	DC  12V $\overline{\text{---}}$, 2.0A
	Power Consumption	24W
Size	173(W) \times 45(H) \times 146(D)mm	
Weight	380g(net)	

* This unit is designed for home appliance with good appearance, high quality, function and user's convenience also.

* The specifications and design of this product are subject to change without notice, due to improvement.