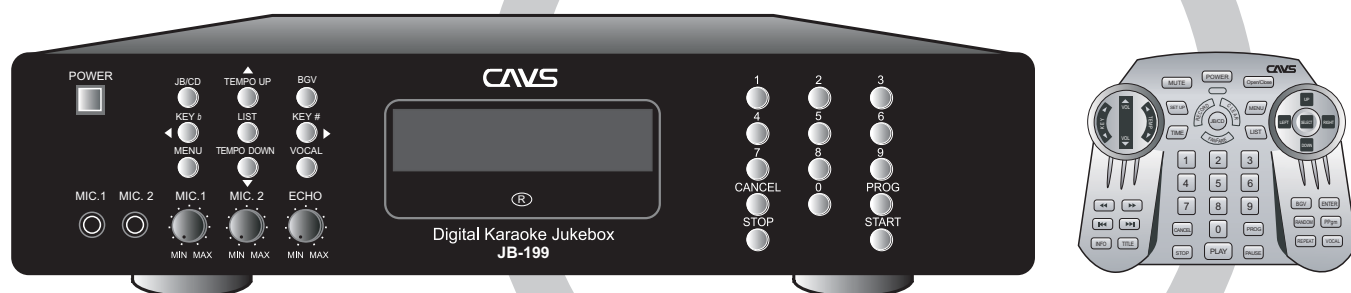


# CAVS JB-199

## Digital Karaoke Jukebox Player

### USER'S MANUAL

Be sure to read this manual before starting the operation of the unit.



# CAVS



# IMPORTANT SAFETY INSTRUCTIONS



All the safety and operating instructions should be read before the product is operated.

The safety and operating instructions should be retained for future reference.

All warnings on the product and in the operating instructions should be adhered to.

All operating and using instructions should be followed.

Unplug this product from the wall outlet before cleaning.

Do not use liquid cleaners or aerosol cleaners, Use damp cloth for cleaning.

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near swimming pool; and the like.

Do not place this product on an unstable cart, stand, tripod, bracket, or table, The product may fall, causing serious injury to a child or an adult and serious damage to the product.

- A product and cart combination should be moved with care. Quick stops, excessive forces and uneven surfaces may cause the product and cart combination to overturn.

This symbol is to be included in the important safeguards of applicable units adjacent to the upper side content.



## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

Caution : To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be inserted to prevent blade exposure.

Attention : Pour prevenir les chocs electriques ne pas utiliser cette fiche polarisee avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent etre inserees a fond sans en laisser aucune partie a decouvert.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surface may cause the product and cart combination to overturn.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.

The openings should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

Power supply cord should be routed so that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

Never push any kinds of objects into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards.

Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance.

When replacement parts are required, be sure the service technician has used replacement part specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Grounding or Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other).

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings - This product may be equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

# Federal Communications Commission Requirements

## **WARNING**

---

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE WITH THE FCC'S RULES (THE FCC 'GRANTEE') COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## **Note**

---

This equipment consists of parts that has been tested and found to comply with the limits for a Class B digital devices, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technical for help.

# CAVS JB-199 Karaoke Jukebox

CAVS JB-199 Karaoke Player is the next generation digital jukebox capable of storing 100,000 songs of DVD, Video CD, CD+G, or CD format. It also instantly records and makes custom Audio CDs providing premiere services to patrons. It can also connect to LAN or Internet network providing around the clock song updates and services.

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<b>* Limited Warranty</b>	

# 1

## PRODUCT FEATURES

### FEATURES



Play DVD, VCD, CD+G, MIDI and CD songs from the internal memory of JB-199

Play Super CD+G, CD+G, MIDI and CD discs.\*

Store up to 100,000 songs.\*\*

Capture CD+G and CD songs directly from discs (No need for PC).\*

Instantly record and make custom Audio CDs.\*

Connect to LAN network or Internet for remote management.

Dual disc drives for easy quick disc loading.\*

Tempo control, Digital key control, Voice cancel (multiplex), Fanfare, Score

Program, Priority program, Random selection and Repeat play

On-screen song list and search

JB-199 Manager program for easy song data and list management

Background video (BGV) from internal video files, still images, and USB camera.

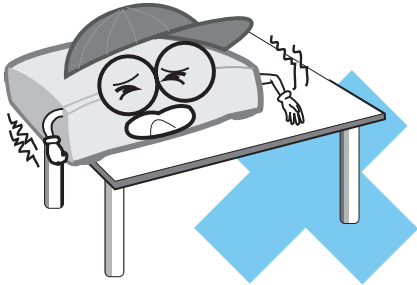
\* Optional disc drive is required. See Chapter: External Disc Drives in  
Section: Optional Devices.

\* Optional hard drive capacity is required.

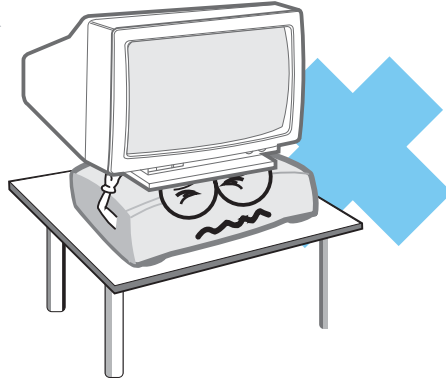
# 2

## SAFETY / PRECAUTIONS

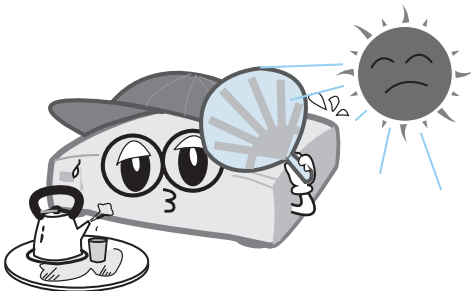
### WHEN INSTALLING UNIT



Place the unit on even-level.  
Tilted position may cause damage to the unit and the disc.

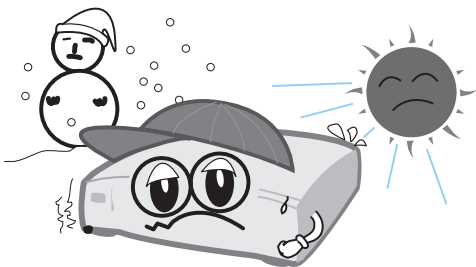


Do not place heavy equipment such as TV on top of the unit.

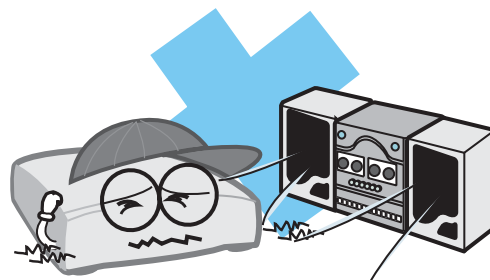


Do not place the unit in areas with

- vibration
- high humidity
- limited or no ventilation
- under direct sunrays
- high or low temperature.



Moving the unit between extreme temperatures may cause water dew on the laser pickup of the unit and result in malfunctioning. If so turn off the unit and wait for one or two hours before starting again.

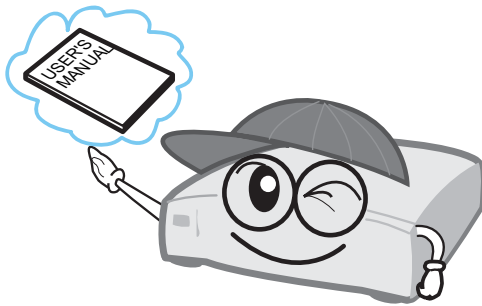


To avoid the magnetic interference, place the unit away from speakers.

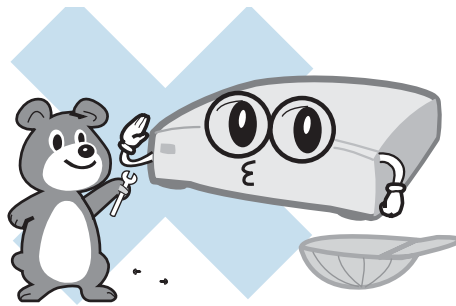


# SAFETY / PRECAUTIONS

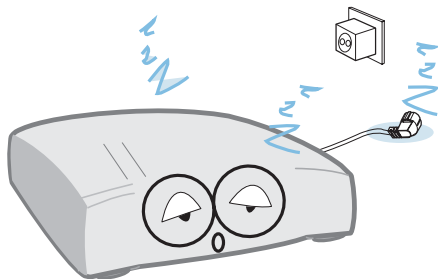
## SAFETY



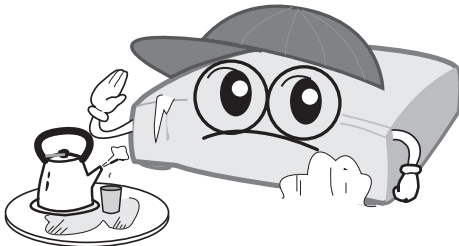
Be sure to read the user manual  
before operating the unit  
Place the unit in an area well  
ventilated and with no heat.



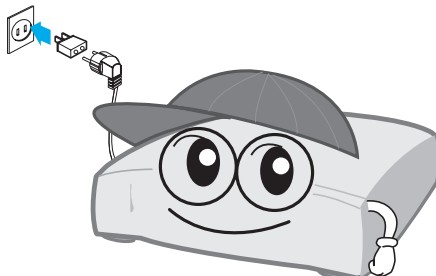
Never open the top cover. It is very  
dangerous to touch the inside of the  
unit due to possible electric shock.



When not in use for long duration, be  
sure to pull out the power cord from  
the electric outlet. Also do not use the  
unit when the power cord is damaged  
as it may cause electric shock.



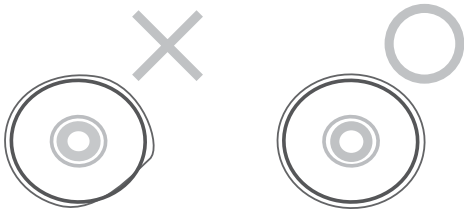
The unit and its power cord should be  
arranged safely at all times and never be  
handled with wet hands due to a danger of  
electric shock.



Check the supply voltage before turning  
on the unit.  
The unit uses 100 - 240V AC.

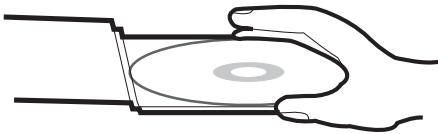
# SAFETY / PRECAUTIONS

## WHEN HANDLING DISCS



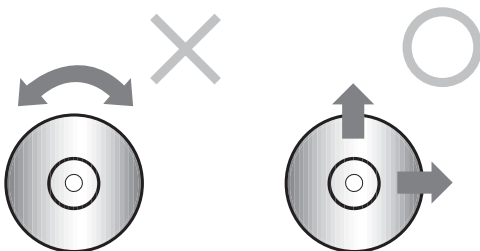
Do not use damaged discs.

Damaged disc will not play its audio/video content as specified and can cause damage to the unit due to high speed rotation when inserted.



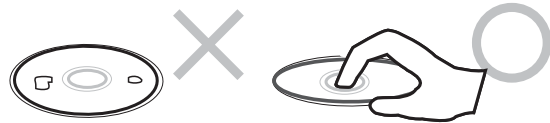
How to keep.

To prevent discs from bending, be sure to pull discs out of the unit after using and keep them in the disc case.



Foreign materials  
Fingermarks  
Heavy scratches  
Paper stickers or tapes

Direct sunray  
Electric heater



How to handle

When handling disc, take hold of the outer edge and the center hole, not the top and bottom sides, as illustrated above.

Do not place paper stickers or tapes on the disc, or write on the surface of the disc. Be careful not to place the disc under a direct sunray or near high heat.

How to clean.

Wipe the disc with soft cloth to remove dust and fingermarks using the motion as illustrated.

When cleaning the disc, use only the liquid disc cleaner and never use benzene, thinner, or sprays for electrostatic protection.

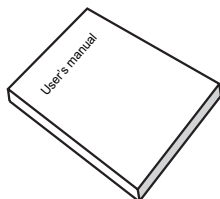
# 3

## CHECK POINTS BEFORE USE

### ACCESSORIES

Accessories of the unit are as follows.

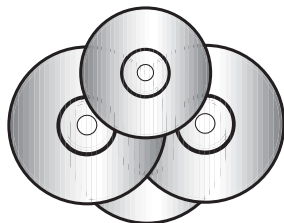
User manual : 1



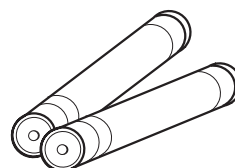
Remote controller : 1



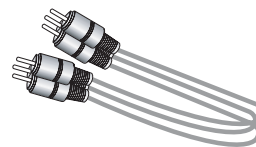
JB-199 Program CDs



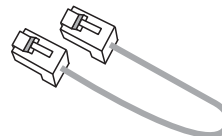
Batteries : 2



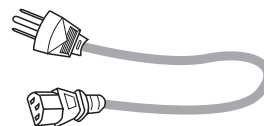
Video and audio cable : 1



Lan cable : 1



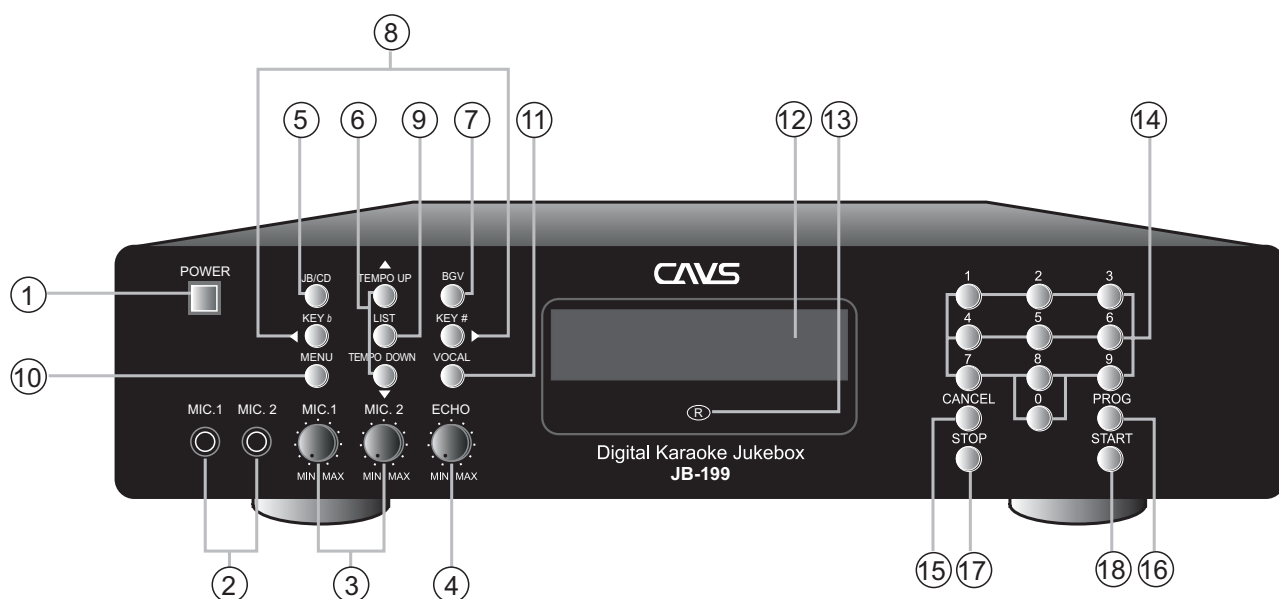
Power cord : 1



# 4

## CONTROLS AND FUNCTIONS

### FRONT PANEL



#### ① POWER Button

Turn on / off the unit.

#### ② MIC 1 and MIC 2 Inputs

Plug-in jacks for MIC 1 and MIC 2 microphones.

#### ③ MIC 1 and MIC 2 Volume Controls

Volume controls for MIC 1 and MIC 2 microphones.

#### ④ ECHO Control

Echo control for MIC 1 and MIC 2 microphones.

#### ⑤ JB/CD Selector

Select between JUKE (hard drive) and CD (disc) play mode.

#### ⑥ Up & Down, Tempo UP & Down

Move up / down, Tempo up / down.

# CONTROLS AND FUNCTIONS



## ⑦ BGV Selector

Turn on / off the background video (BGV).

## ⑧ Left & Right, Key Up & Down

Move left / right, Key (pitch) up / down.

## ⑨ LIST Selector

Open / close on-screen song list.

## ⑩ MENU Selector

Open / close MENU display.

## ⑪ VOCAL Selector

Select left / right / stereo channels.

## ⑫ LCD Display

Display status of song, mode, time, etc.

## ⑬ Remote Sensor

Receive infrared signal from the remote control.

## ⑭ Numeric Buttons (0 - 9)

Input number of a song, track, or a menu item.

## ⑮ CANCEL Button

Cancel programmed songs.

## ⑯ PROG Button

Program up to 99 songs with pre-specified key and tempo settings.

## ⑰ STOP Button

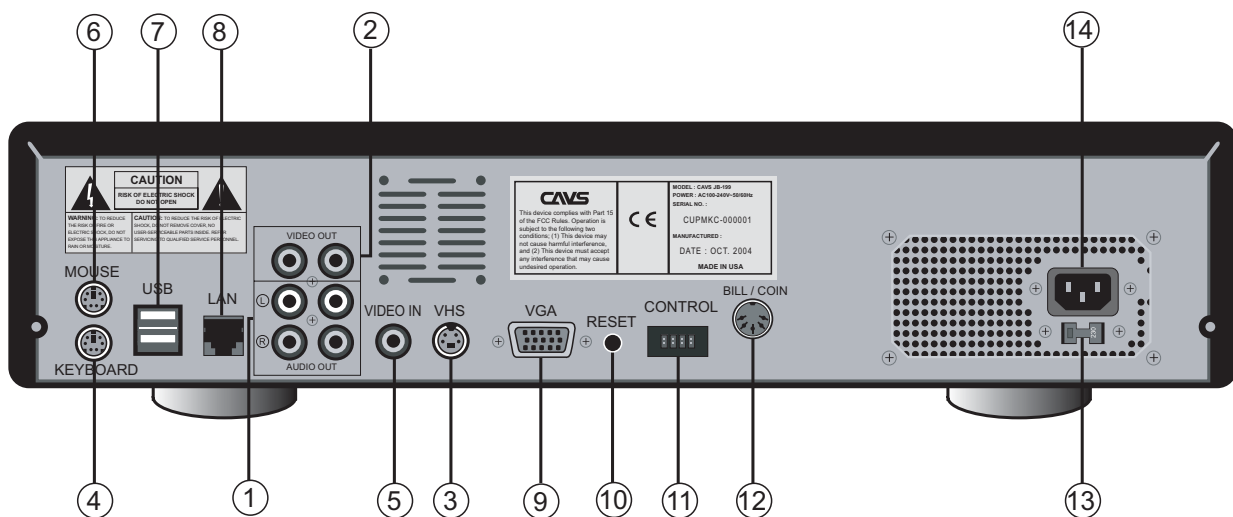
Stop play or return.

## ⑱ PLAY Button

Play a song or select an item.  
When playing, press to pause.

# CONTROLS AND FUNCTIONS

## REAR PANEL



### ① AUDIO Output Terminals

Audio L/R output terminals (1, 2).

### ④ KEYBOARD Connector

Connector for PC keyboard.

### ② VIDEO Output Terminals

Composite video output terminals (1, 2).

### ⑤ VIDEO IN Input Terminal

Connect to external video source  
(For use in upgrade).

### ③ VHS Output Terminal

S-video output terminal (if available  
in your TV) for higher video quality.

### ⑥ MOUSE Connector

Connector for PC mouse.

# CONTROLS AND FUNCTIONS



## ⑦ USB 2.0 Connectors

Connector for external disc drive, hard drive, camera, etc.

## ⑧ LAN (100/10 Mbps) Connector

Connector for 100/10 Mbps LAN cable

## ⑨ VGA Connector

Connector for PC monitor.

## ⑩ RESET Button

Restart JB-199.

## ⑪ CONTROL Terminal

Audio / video signal control output terminal.

## ⑫ BILL / COIN Connector

Connector for bill, coin, or card acceptor.

## ⑬ POWER Selector

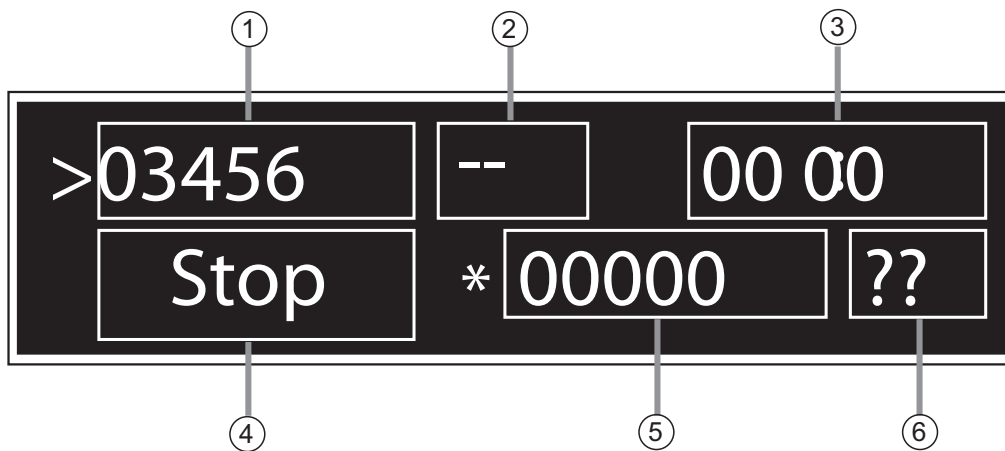
Select power input between 110V/60Hz and 230V/50Hz.

## ⑭ POWER Cord Plug

Plug for power cord.

# CONTROLS AND FUNCTIONS

## LCD DISPLAY PANEL



### ① SONG IN PLAY

Display song number in play.

### ② AVAILABLE CREDIT

Credit remaining for bill, coin, or card acceptor.

### ③ TIME

Display elapsed or remaining time.

### ④ STATUS

Display Stop, Play or Pause.

### ⑤ SONG IN SELECTION

Display song number being selected.

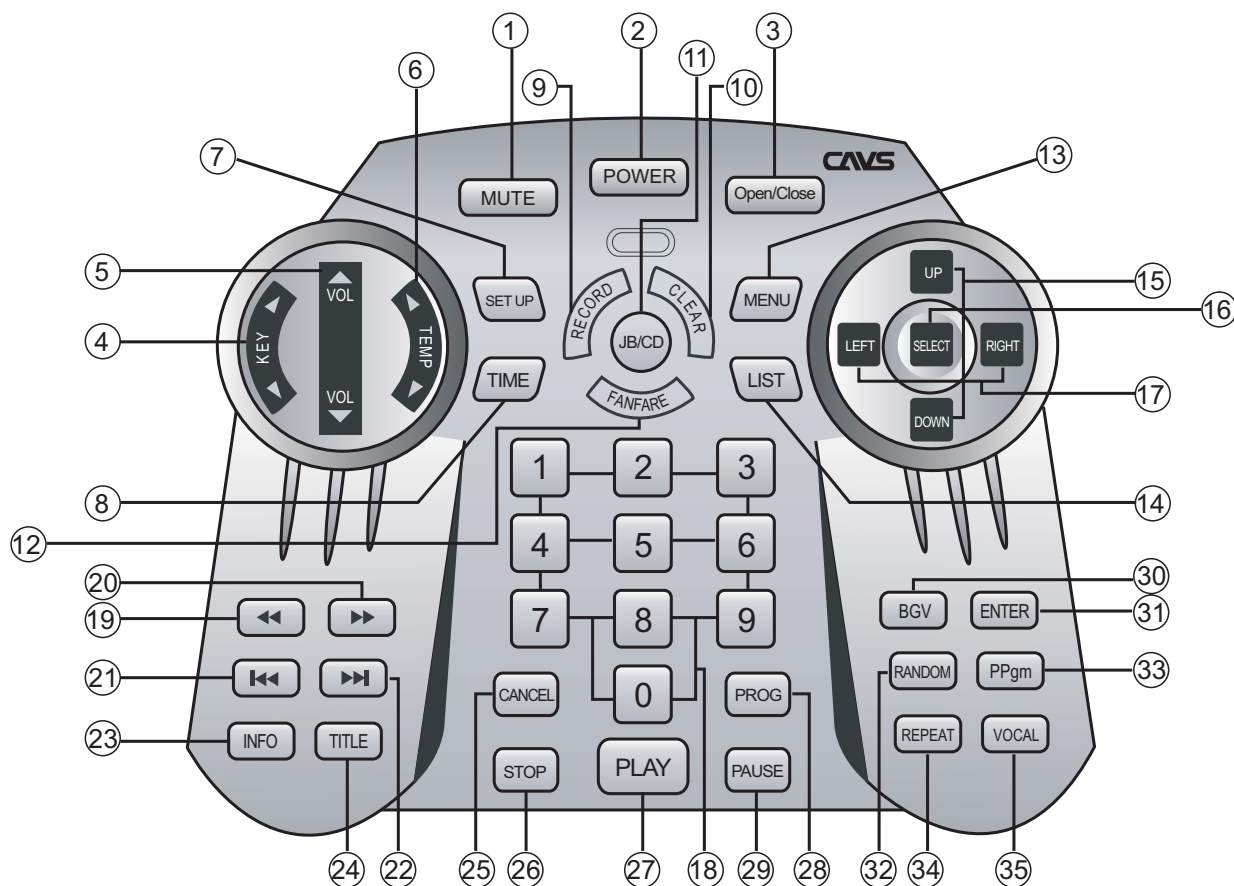
### ⑥ SELECTION STATUS

Display selection result.



# CONTROLS AND FUNCTIONS

## REMOTE CONTROLLER



### ① MUTE

Mute on / off master music volume.

### ② POWER

Power off the player. To power on, press the POWER button on the front panel.

### ③ OPEN/CLOSE

Open / close disc drive (Disc Mode only)..

### ④ KEY Control

Raise / lower key (pitch) level.

### ⑤ VOLUME CONTROL

Raise / lower master music volume.

### ⑥ TEMPO Control

Raise / lower tempo (speed) level.

- 15

# CONTROLS AND FUNCTIONS

---

②⑤ **CANCEL**

Press to cancel programmed songs.

②⑥ **STOP**

Press to stop / return.

②⑦ **PLAY**

Press to play. Press again to pause.

②⑧ **PROG**

Press to program a song.

②⑨ **PAUSE**

Press to pause. Press again to play.

③⑩ **BGV**

Press to select background video from  
Off / Internal video / Still images / USB camera.

③① **ENTER**

Press to select.

③② **RANDOM**

Select on / off to play a song in random.

③③ **PPGM**

Press to priority-program a song in front  
of the program queue.

③④ **REPEAT**

Press to select REPEAT ONE / ALL / OFF.

③⑤ **VOCAL (Voice Cancel)**

Press to select L / R/ Stereo channels.

# 5

## USING REMOTE CONTROLLER

### BATTERY

#### How to load the batteries

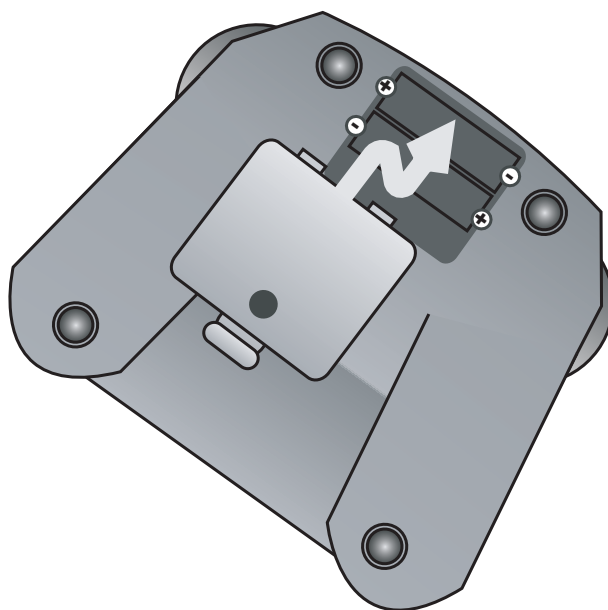
- \* Open the bottom cover of the remote controller.
- \* Load two batteries (1.5V) of "AA" size with +/- polarities as specified.
- \* Close the bottom cover.

#### Precautions in using batteries

- \* When changing batteries
  1. Check the +/- polarities of the batteries to be as specified on the case of remote controller.
  2. Do not mix the types of two batteries even though they are of same size.
- \* When using a battery charger  
Use the battery charger only after checking carefully its charging time and voltage.  
(Use only direct voltage of 2.4V to 3.6V for both batteries combined.)

#### \* When handling batteries

1. Do not over charge, heat, disassemble or short-circuit the batteries.
2. For long term storage, take out the batteries from remote controller as the batteries may leak electrolytic liquid which can damage the controller.



# USING REMOTE CONTROLLER

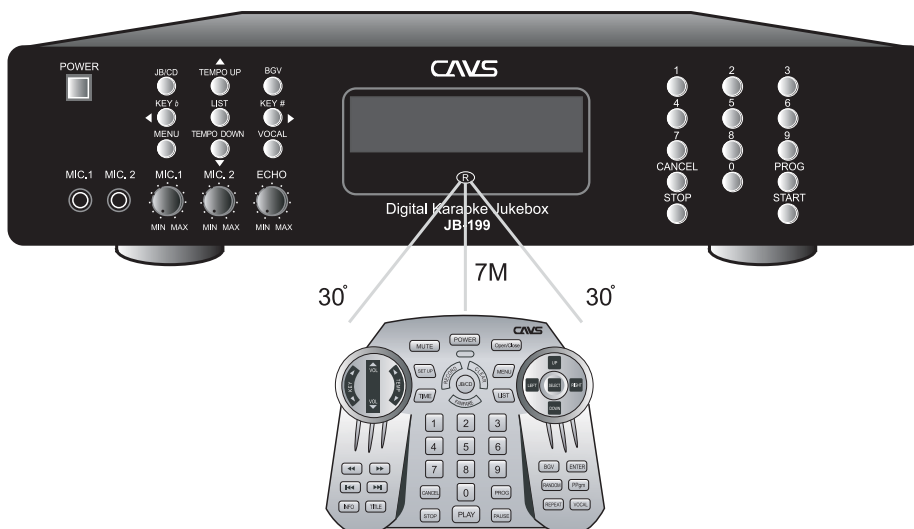
## HOW TO USE

### Operating range

- \* The effective angle of remote controller is 30 degrees up/down and right/left from the front remote sensor in main body of the unit. Use the remote controller within this range.
- \* The effective distance of remote controller is 7 meters from the remote sensor in the main body of the unit. Use the remote controller within this distance.

### Precaution

- \* After a bootup, it may take 1 or 2 inputs from the remote controller for JB-199 unit to respond.
- \* If remote controller is not working, check the batteries and also the AC power plug of the main unit.
- \* If remote controller is malfunctioning, it may be due to cross interference from other equipment nearby. Try using the remote controller at a closer distance and directly in front of the main unit.

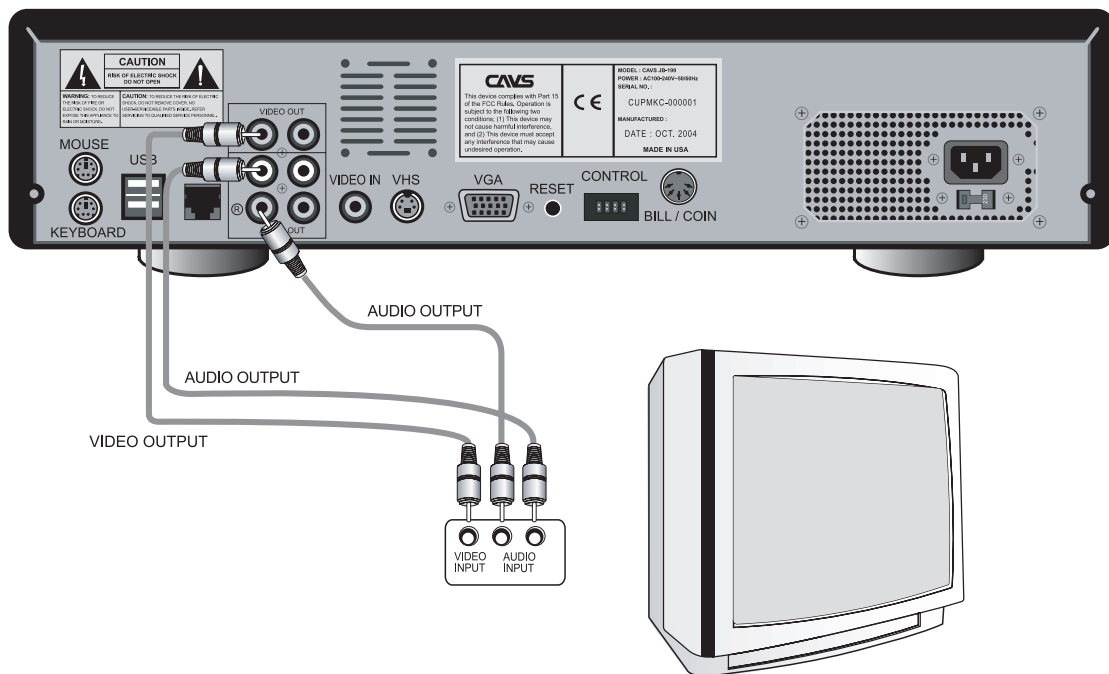


# 6

## HOW TO CONNECT

### When connecting video/audio output to TV

The connection for JB-199 unit with a TV is illustrated below.

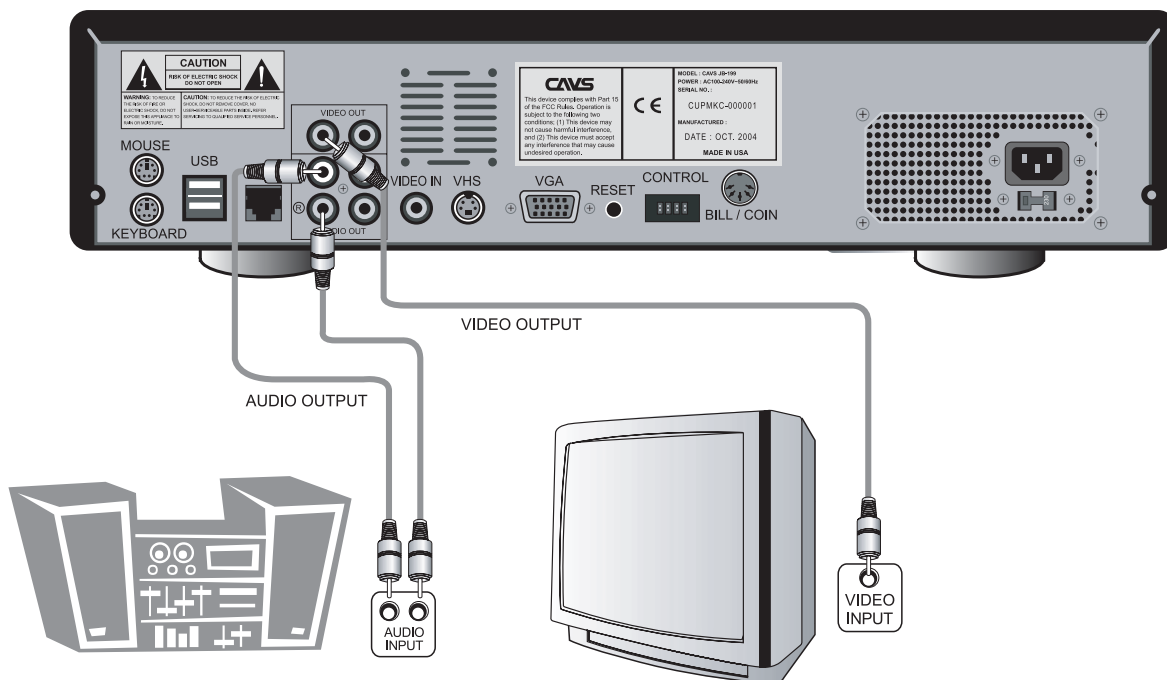


# HOW TO CONNECT

## When connecting Video output to TV and audio output to amplifier

The connection for JB-199 with a TV and an amplifier is illustrated below.

For video connection using VHS (S-Video) output, please contact CAVS Tech Support.



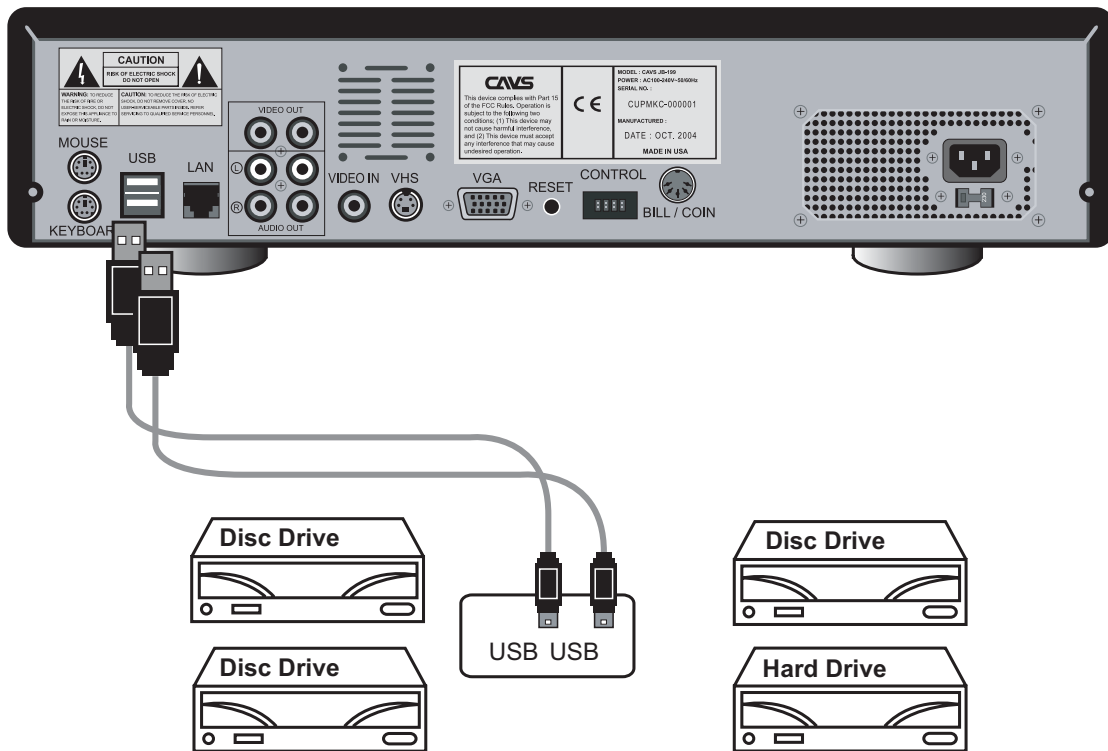
Note : For better vocal sound, try connecting microphones directly to the amplifier (if microphone jacks are available on the amplifier) rather than connecting to microphone jacks of JB-199 unit.

# HOW TO CONNECT

## When connecting external disc drives and external hard drive to JB-199 unit

The connection for an external disc drives and external hard drive to JB-199 unit is illustrated below.

Note : Two external disc drives or one external disc drive with one external hard drive can be connected to JB-199.



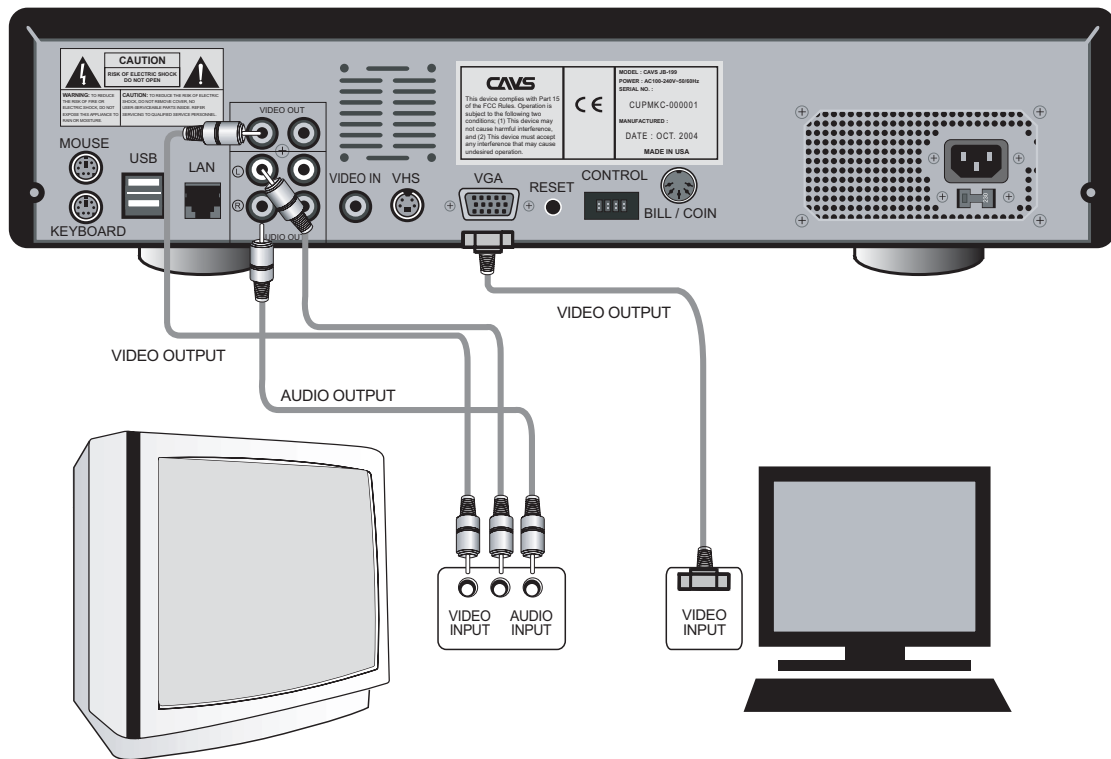


# HOW TO CONNECT

## When connecting TV and PC Monitor to JB-199

The connection from JB-199 to TV and PC Monitor is illustrated below.

Note : Connect the VGA output of JB-199 into video input of the PC Monitor.

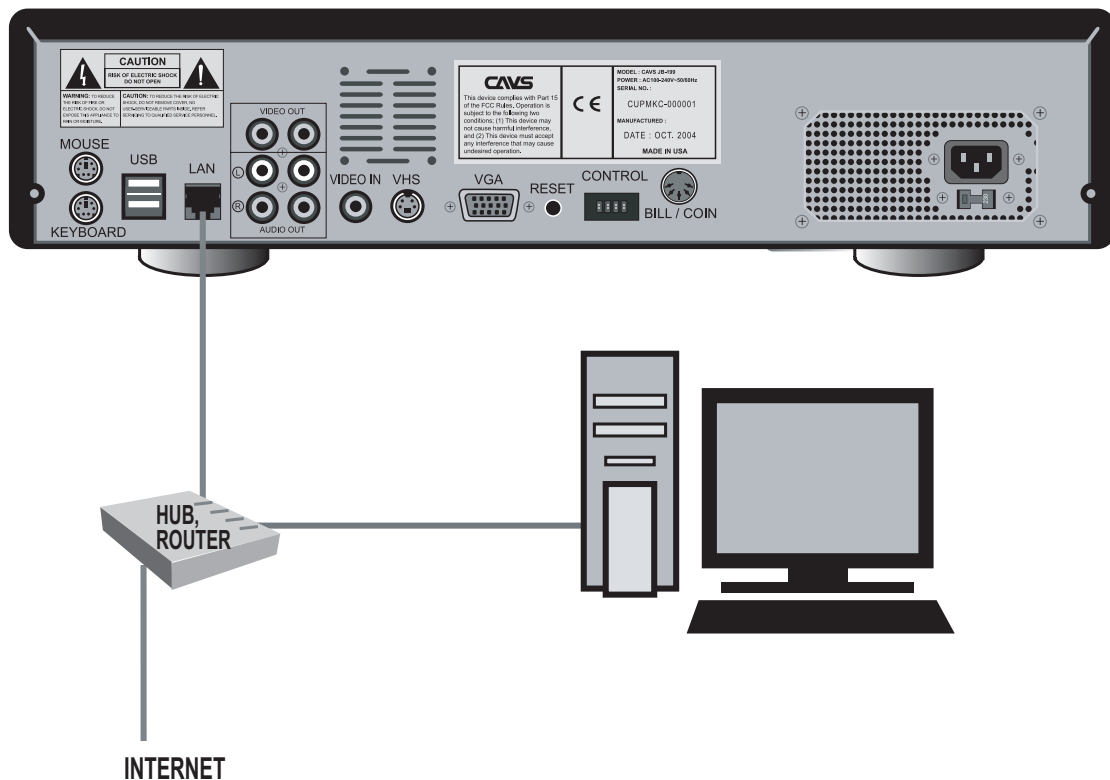


# HOW TO CONNECT

## When connecting a remote PC to JB-199 unit

The connection from a remote PC to JB-199 unit is illustrated below. Use the LAN (100Mbps) to connect JB-199 unit to a HUB or ROUTER for local network or Internet.

Note : Use the LAN 100Mbps cable included in JB-199 unit.



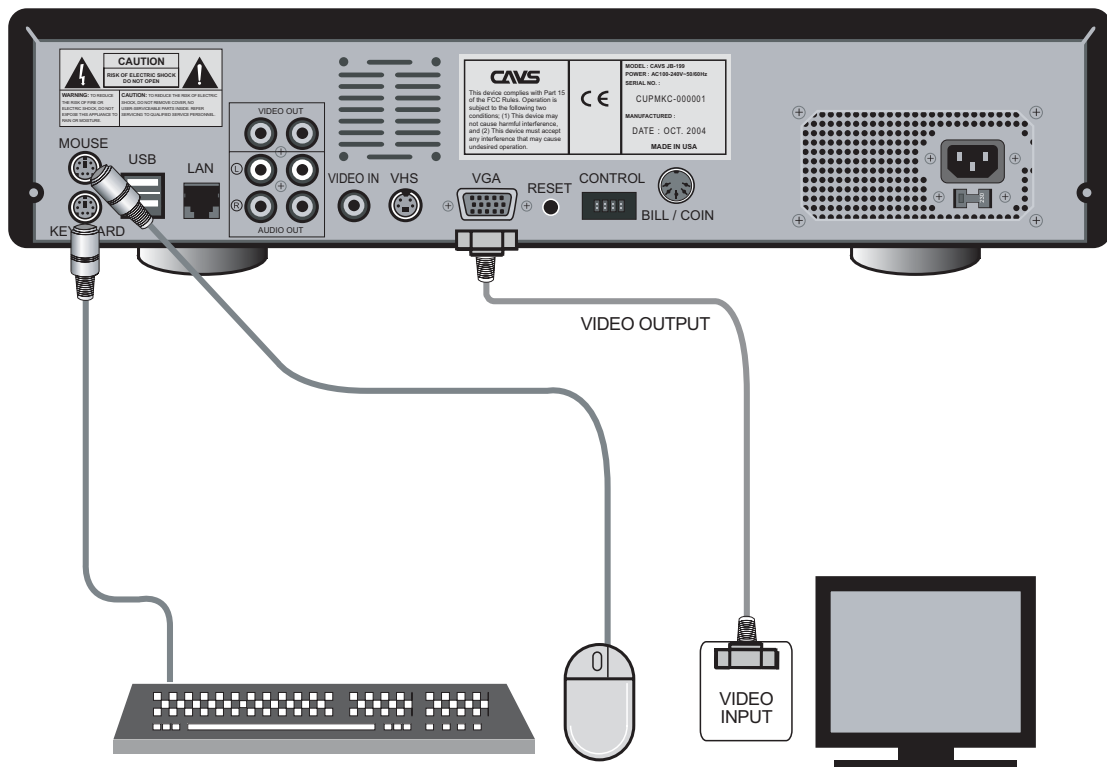
# HOW TO CONNECT



## When connecting PC Monitor, Mouse and Keyboard to JB-199

The connection from JB-199 to PC Monitor, Mouse, and Keyboard is illustrated below.

Note : Connect the VGA output of JB-199 into video input of the PC Monitor.

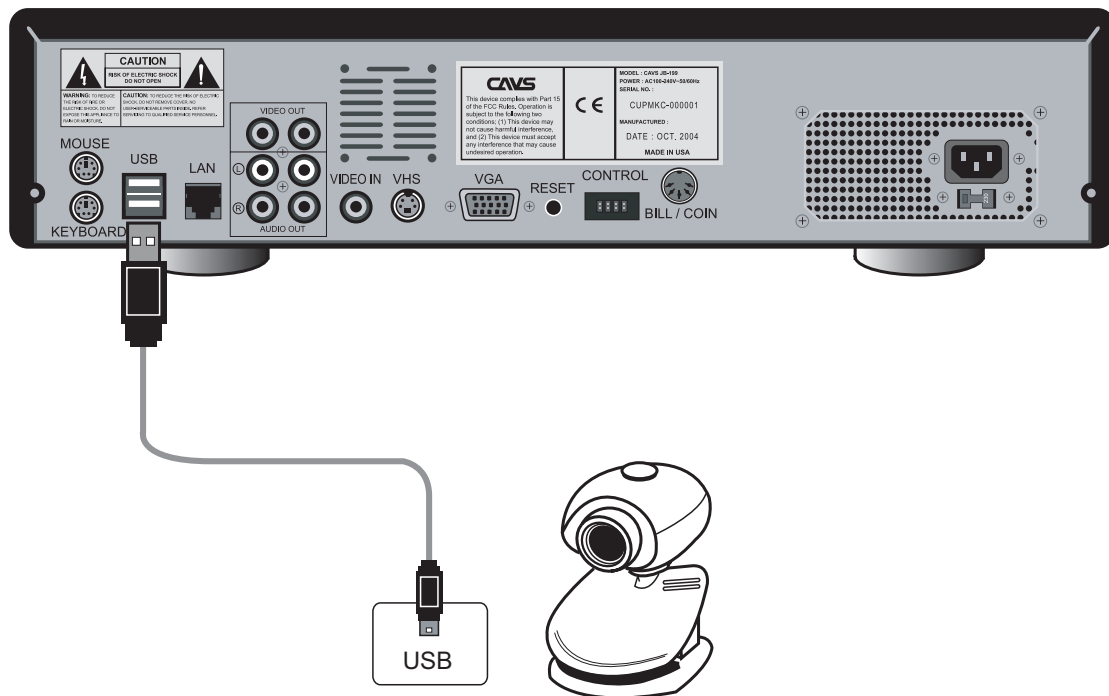


# HOW TO CONNECT

## When connecting external USB camera to JB-199 unit

The connection for an external video source such as a USB camera to JB-199 unit is illustrated below.

Note : To install the USB camera to JB-199, see Section: Advanced Functions





# HOW TO OPERATE

## BASIC FUNCTIONS



### Power on

Be sure to set the power input of JB-199 in the back panel according to your wall outlet. Incorrect setting will cause serious and un-repairable damage to JB-199.

Press the POWER button on the front panel of the unit. The unit will boot up to the initial Welcome screen. The format of songs that can be stored and played in JUKE (internal hard drive) mode are:

TRACKS FROM		FILE FORMAT
CD	:	MP3
CD+Graphics	:	MP3 / MCG, MP3 / CDG
Video CD (VCD)	:	AVI / MP3 / MP3
DVD	:	AVI / MP3 / MP3



### Select a song

Press LIST button to open the on-screen songlist. Search for a song using UP, DOWN, LEFT, RIGHT buttons and press PLAY. You can also input directly a song number using the numeric buttons and press PLAY.



### Pause a song

Press PAUSE button to pause the song in play. Press again to return to normal play.

# HOW TO OPERATE

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## Program songs

Input a song number and press PROG to program the song. You can program up to 99 songs.



## Cancel programmed songs

To cancel the programmed songs, press CANCEL. The last song in the program queue will be deleted. To delete a particular song in the queue, input the song number and press CANCEL.





## Priority program songs

To program a song in front of the program queue, select a song and press PPgm button in the remote control.



## Set TEMPO and KEY controls

Use TEMPO UP / DOWN controls and KEY UP (  ) / DOWN (  ) controls to set the tempo and key of the songs.



## Presetting TEMPO and KEY controls before play or program

With no song selected, press PROG button. Input a song number followed by TEMPO control and KEY control settings. Press PLAY to play or PROG to program the song. The song will play with the specified tempo and key settings.

# HOW TO OPERATE

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## Background Video (BGV)

Press BGV button repeatedly to select background video from Off / Internal video / Still images / External USB camera. Each option is shown only when installed or available.



## Fast Forward and Fast Backward

To move fast forward or fast backward during a playback, press PAUSE. Press ◀◀ button on the remote control to move fast backward. Press ▶▶ to move fast forward. For CD+G and CD songs, you can press ◀◀ and ▶▶ directly without pressing PAUSE.



## VOCAL (Voice Cancel)

Press VOCAL button to select Left / Right / Stereo channels. For multiplex tracks, selecting Left channel will eliminate the lead vocal in the track.



## Fanfare

Press FANFARE button on the remote control repeatedly to make a selection. Press PLAY to play the fanfare and display a score.



## Master Volume Control

Raise / lower the master volume of JB-199 by pressing VOLUME UP / DOWN button on the remote control.

# HOW TO OPERATE

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**14**

## TIME

Press TIME button on the remote control to select between elapsed time and remaining time shown on the LCD front display. To display the time on the TV screen, press TITLE button first and then press TIME button.

**15**

## TITLE display

Press TITLE button to display Time (Elapsed / Remaining), Outstanding credit, and Audio output channel status on the TV screen. Press again to close.

**16**

## INFO display

Press INFO button to display SYSTEM STATUS window. Press again to close.

**17**

## Repeat play

Press REPEAT to select from Repeat One / Repeat All / Off. If Repeat All is on during playback of programmed songs, only the programmed songs will be repeated in circle.

**18**

## Random play

Press RANDOM to set the random play mode on. Press PLAY to play a song in random. Press RANDOM again to set the random play mode off.

**19**

## Next and Previous play

Press ◀◀/▶▶ to skip to the previous / next song.





Play a song and sing along using MIC1 / MIC2 inputs. The music and the microphone inputs will be recorded at 22KHz 16 bit Stereo Wav format. The red pause sign will change to indicate the recording in process. You can record up to 99 songs.

To listen to the recorded track, press a song number between 99901 - 99999 with the last two digits matching the recorded track number. For example, for a recorded track 02, press 99902. Press PLAY to begin playback.

To make an Audio CD from the recorded tracks, go to MENU and to 3. Disc Recording. See the Chapter: Disc Recording in Section: Advanced Functions for the instruction.

To change the input volume level for recording, go to MENU and to 7. Audio Control. See the Chapter: Audio Control in Section: Advanced Functions for the instruction.

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# HOW TO OPERATE

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## DISC PLAY



### Disc Drive

You can install up to 2 external disc drives with USB 2.0 connections onto JB-199. We recommend Plextor CDR or DVDR drives for compatibility with JB-199 and CD+G discs. For the latest information on the list of compatible Plextor models, please visit [www.cavsusa.com](http://www.cavsusa.com).

For the instruction on how to connect a external disc drive to JB-199, please see Section: How to connect.



### Compatible discs

JB-199 with the disc drive (selected from the list of recommended Plextor drives) can play and encode (download) CD+G and Audio CD discs. It can also play Super CD+G discs.

To play the songs in DVD and Video CD discs, the tracks must first be converted to AVI files and stored into JB-199. The instruction for making AVI files from DVD and Video CD discs are given in Chapter: Preparing song files.



### Play a song

Insert a Super CD+G, CD+G or CD disc in the disc drive. Press JB/CD button to show DISC1 (or DISC2) on the TV screen. The input field to select a song changes to “D1-00” or “s0000”. Input the track number of the song you wish to play and Press PLAY.

All functions described in Section: Basic Functions equally applies to DISC play.



### Return to JUKE mode

To return to JUKE mode for playing songs from internal memory, press JB/CD button. The input field to select a song will change to “00000”.

# HOW TO OPERATE

## ADVANCED FUNCTIONS



### Jukebox

Press MENU button to show the FUNCTIONS window. Use the ▲/ ▼ buttons to move the cursor to 1. Jukebox and press ► to enter. You will see various information of JB-199 unit as follows:

\* System ID (xxxxxxxxxxxx)

This is a unique machine ID for JB-199 unit. All songs registered within the unit will be tagged with this system ID.

\* IP Address (xxx.xxx.xxx.xxx)

Indicate the IP Address assigned to JB-199 from the network. This address enables local Lan (100 Mbps) and Internet communication between JB-199 and a remote PC using CAVS JB-199 Manager program. For detail information, see Section: CAVS JB-199 Manager.

\* Juke, FTP Version (xx.xxx)

Indicate the version numbers of the current Juke and FTP program running inside JB-199.

\* FTP Status (Running / Stop)

Indicate the status of FTP program in JB-199. Normally, it will show as Running.

\* DISK (Total xxxxxx, Free xxxxxx)

Indicate the size and free space of the internal hard drive of JB-199.

1. DISC 2 (xxxxx)

Enter by pressing ►. Input a starting song number for an external hard drive (optional device). Songs in the external hard drive (when connected) can then be called by its song number plus the starting song number. Normally, it is set at 99999 with only a single hard drive in setting. Press ► to save and exit.

2. Password (On / Off)

Press ► to enter and select On by pressing ▼. Press ► to input your password (4 digits). Now re-entry to MENU will require the password. Press MENU which will show “?” on the LCD display. Input the password to enter into MENU. To turn off the password, go to 2. Password and Press ► to enter and input the password.

3. Register Song Files

Press ► to register all song files in JB-199. The system ID will be tagged to all song files.

All songs within JB-199 must be registered in order to play properly.

# HOW TO OPERATE



## Disc Capture

From the initial Welcome screen, press JB/CD button to switch from JUKE to DISC (DISC1/DISC2) mode. Press OPEN/CLOSE button on the remote control to open the disc drive and insert a CD+G or CD disc into the disc drive (DISC1 or DISC2). Press the OPEN/CLOSE button on the remote control again to close the disc drive.

Do not use the OPEN/CLOSE button on the disc drive itself.

Press MENU button to show the FUNCTIONS window. Use the ▲/▼ buttons to move the cursor to 2. Disc Capture and press ► button to select.

1. Select Driver (DISC1 / DISC2)

Select the disc drive which contains the disc you wish to capture.

2. Overwrite exiting data (Yes / No)

Select Yes if overwriting existing data.

3. Starting song number (xxxxx)

Select a starting number from which the captured songs will be stored. Normally it is set as the last song number in the unit.

4. Conversion speed (1X, 2X, ..., 52X, DVD 1X, ..., DVD 20X, MAX)

Select the disc drive speed at which the disc will be read.

5. Compression rate (32Kbps, ..., 128Kbps, ..., 320Kbps)

Select the rate at which the audio data will be compressed. Normally it is set at 128Kbps.

6. Lyric Sync timing (-300 fr, +300 fr)

Select the delay timing of lyric display relative to music. 75 fr is equivalent to 1 second. Normally it is set at 0.

7. Convert tracks (All / Select)

Choose to convert all tracks or some selected tracks only. If some, choose Select and press ►. A new window SELECT TRACK will appear. Use the ▲/▼ buttons to move along the tracks and use ► button to select or unselect each track. When the selection is completed, press ◀ to return.

# HOW TO OPERATE



## 8. Disc Capture

Press ► to begin capturing. The captured songs will be stored under the starting number plus the track number.

For example, with a starting song number of 04010,

Number	Title
04011	04010 track 1
04012	04010 track 2
...	

## 9. Edit, Save, and Print Song list

To edit, save and print the song list of JB-199, see Chapter: Edit, Save, and Print Song List.

# HOW TO OPERATE

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## Disc Recording

This chapter describes how to make Audio CD from the recorded tracks. From the initial Welcome screen, press JB/CD button to switch from JUKE to DISC (DISC1/DISC2) mode. Press OPEN/CLOSE button on the remote control to open the disc drive and insert a blank CD-ROM disc. Press the OPEN/CLOSE button on the remote control again to close the disc drive.

Do not use the OPEN/CLOSE button on the disc drive itself.

Press MENU button to show the FUNCTIONS window. Use the ▲/▼ buttons to move to 3. Disc Recording and press ► button to enter.

### 1. Select Driver (DISC1 / DISC2)

Press ► to enter. Select, using ▲/▼ buttons, the disc drive which contains the blank CD-ROM.

### 2. Select File (All / Select)

Choose to write all tracks or some selected tracks only. If some, choose Select and press ►. A new window SELECT FILE will appear. Use the ▲/▼ buttons to move along the files and use ► button to select or unselect each file. When the selection is complete, press ◀ to return.

### 3. Writing speed ( 1 / 2 / ... / 40)

Press ► to enter. Select a speed for recording. Normally, it is set at 8x.

### 4. Write files

Press ► to record the selected files onto the CD-ROM.

### 5. Delete files

Press ► to delete the selected files.

# HOW TO OPERATE

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## Download (DataCD)

This chapter describes how to transfer files (songs or upgrades) from DataCD to JB-199. From the initial Welcome screen, press JB/CD button to switch from JUKE to DISC (DISC1/DISC2) mode. Press OPEN/CLOSE button on the remote control to open the disc drive and insert the DataCD. Press the OPEN/CLOSE button on the remote control again to close the disc drive.

Do not use the OPEN/CLOSE button on the disc drive itself.

Press MENU button to show the FUNCTIONS display. Use the ▲/▼ buttons to move the cursor to 4. Download and press ► button to enter.

### 1. Selected Disc (DISC1 / DISC2)

Select the disc drive which contains the DataCD you wish to download.

### 2. Overwrite exiting data (Yes / No)

Select Yes if overwriting existing data. For upgrades, set at Yes.

### 3. Starting song number (xxxxx)

Select a starting number from which the downloaded songs will be stored. Normally it is set as the last song number in the unit. For upgrades, set as the last song number.

### 4. Download from CD-ROM (All / Select)

Choose to download all song files or some selected song files only. If some, choose Select and press ►. A new window SELECT SONGS will appear. Use the ▲/▼ buttons to move along the songs and use ► button to select or unselect each track. When the selection is completed, press ◀ to return. For upgrades, set as All.

### 5. Download songs

Press ► to begin downloading song files. The song numbers and the titles will be displayed during download. When the downloading is completed, Go to 1. Jukebox in the MENU to register the songs files. See Chapter: Jukebox for more details.

### 6. Program upgrades

Press ► to begin downloading the upgrade. When completed, restart JB-199.

# HOW TO OPERATE



## System Control

This chapter describes how to change the system settings in JB-199.

Press MENU button to show the FUNCTIONS window. Use the ▲/▼ buttons to move to 5. System Control and press ► button to enter.

### 1. Play mode (Single / Continuous)

Select Continuous for songs in Repeat or Program to play without interruption. Select Single for the songs to stop for a press of PLAY button to begin at the end of each song.

### 2. Score Control (On\_Random\_Low / Med / High / On\_ADC\_Low / Med / High)

Select between RANDOM scoring and ADC (advanced digital control) scorings. Also select between LOW, MED, and HIGH average scorings.

### 3. Select Bill Acceptor (Off / Bill / Coin / Card)

Select a Bill, Coin, or Card acceptors.

### 4. Credit per \$1 (1 / 2 / 3 ...)

Indicate the credit earned by inserting \$1 (for use with bill acceptor).

### 5. Debit per Karaoke (1 / 2 / 3 ...)

Indicate the credit debited for each karaoke song (for use with bill acceptor).

### 6. Debit per Music (1 / 2 / 3 ...)

Indicate the credit debited for each music (jukebox) song (for use with bill acceptor).

### 7. Recording mode (None / Song to song / Stop to end)

Indicate the recording mode. The Song to song option records one song per track. The Stop to end option records from the time the recording is turned on until the time it is turned off in one track. When using Start to end, be sure to turn off the recording after the recording has been completed. Normally, it is set to Song to song.

### 8. Recording Status (Save / Erase)

The default setting of Save stores the recorded tracks after JB-199 is powered off. The Erase setting deletes the recorded tracks when JB-199 is powered off.

### 9. Load setup default

Press to reload factory default values to all settings.



# HOW TO OPERATE

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## Video Control

This chapter describes how to change the video settings in JB-199.

Press MENU button to show the FUNCTIONS window. Use the ▲/▼ buttons to move to 6. Video Control and press ► button to enter.

### 1. Video source (Blue Screen / Internal Video / Internal Still / External Video)

Select a source for background video (BGV).

Blue screen	: None
Internal video	: AVI files
Internal still	: Still images (BMP)
External video	: USB camera

### 2. Video file (xxxx.avi / ...)

Select from available internal AVI files. New AVI files can be added using DataCD or JB-199 Manager program.

### 3. Still image (All / Select)

Select to display all images or some selected images only. If some, choose Select and press ►. A new window SELECT FILE will appear. Use the ▲/▼ buttons to move along the files and use ► button to select or unselect each file. When the selection is completed, press ◀ to return.

### 4. Still image interval (5 / 10 / 15 / ...)

Indicate the time period (in seconds) allocated for each image.

### 5. Display title (on / off)

Select to turn on / off the Welcome To CAVS Sing Along message in the initial screen. This message can be changed using DataCD.

### 6. Turn off backlight (Never / 1 / 2 / 3 ... / 30)

Indicate the time period (in minutes) of inactivity after which the LCD backlight will be powered off.

### 7. Turn off power (Never / 1 / 2 / 3 ... / 30)

Indicate the time period (in minutes) of inactivity after which the unit will be powered off.

# HOW TO OPERATE

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## Audio Control

This chapter describes how to change the audio settings in JB-199.

Press MENU button to show the FUNCTIONS window. Use the ▲/▼ buttons to move to 7. Audio Control and press ► button to enter.

1. Master Volume (1 / 2 / ... / 15)

Indicate the master music volume level. It is also controlled by the VOLUME UP and DOWN buttons on the remote control. Normally, it is set at 15.

2. Master Mute (Off / On )

Select to mute on / off the master music output. It is also controlled by MUTE button on the remote control.

3. WaveOut Volume (1 / 2 / ... / 15)

Indicate the wave output volume level. Normally, it is set at 15.

4. Synthesizer Volume (1 / 2 / ... / 15)

Indicate the MIDI output volume level. Normally, it is set at 15.

5. LineIn Volume (0% - 100%)

Indicate the music input volume level for recording. Normally it is set at 12%.

6. Microphone Volume (0% - 100%)

Indicate the microphone input volume level for recording. Normally it is set at 50%.

# HOW TO OPERATE

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## Download song files from JB-99

The instruction below may damage the JB-99 hard drive for use in JB-99 unit. Make a backup copy of the JB-99 hard drive before proceeding.

To transfer song files of JB-99 to JB-199,

1. Insert the hard drive of JB-99 into an external drive case with USB 2.0 connection.
2. Power off the JB-199 unit. Connect the external drive case (with JB-99 hard drive) to JB-199 using the USB connector. Power on the external drive case.

JB-99 hard drive can also be directly connected to JB-199 by IDE cable located inside the JB-199 player. Be sure to set the JB-99 hard drive as SLAVE for IDE connection.

3. Power on the JB-199. From the initial Welcome screen, go to MENU and to 4. Download.
4. Go to 2. Overwrite existing data and select Yes. Go to 3. Starting song number and input a starting song number into which you wish to begin downloading.
5. Go to 7. Download from JB-99 and press ► to begin downloading. Approximately, 1,000 songs will download in 15 minutes.
6. Press STOP to stop the downloading. When stopped, the transferred songs from JB-99 will be saved in group of 100 songs, and the last group of 100 songs that was stopped will not be saved in JB-199.

# HOW TO OPERATE

## JB-199 Manager Program

CAVS JB-199 Manager is a versatile program that manages song files, program upgrades, picture files, and song list in JB-199.

To download the latest version of the CAVS JB-199 Manager program, please go to [www.cavsusa.com](http://www.cavsusa.com).

CAVS JB-199 Manager program can perform its tasks from

### 1. Remote PC connected to JB-199 by LAN network

- As shown in Section: How to connect, connect JB-199 to a HUB (or a Router) using a LAN cable.
- Connect a remote PC to the same HUB or the Router using a LAN cable.

The HUB (or Router) and LAN cables are recommended to be of 100 Mbps (or 100/10 Mbps) data speed which will transfer approximately 1,000 CD+G songs per 45 minutes.

- Install the CAVS JB-199 Manager program in the remote PC and start the program.

### 2. Remote PC connected to JB-199 by Internet

- Connect JB-199 to an Internet using a broadband modem (or a Router). If using a network with a Router, assign JB-199 to be a FTP server with Port 21 in the network.
- Install the CAVS JB-199 Manager program in a remote PC with Internet connection and start the program.

Following chapters describes the steps through which song files, program upgrades, picture files, and song list can be managed by JB-199 Manager program.

# HOW TO OPERATE

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## Preparing Song Files

### A. Encoding from CD+G discs

Encoding of song files from CD+G discs can be done in two ways:

- \* in a remote PC with a disc drive (CD+G compatible)
- \* directly in JB-199 connected with an external disc drive (CD+G compatible)

Note: For a list of CD+G compatible disc drives, see Chapter: External disc drive in Section: Optional Devices.

Note: For instruction on how to encode from CD+G discs directly in JB-199, see Chapter: Disc Capture in Section: Advanced Functions.

#### 1. Using a remote PC with a disc drive (CD+G compatible)

- Install the CAVS JB-199 Manager program into the PC.
- Start the program and click on CDG ENCODER.
- Insert the CD+G disc into the disc drive and close the tray.
- Press SOURCE DRIVE button to select a disc drive, if there is more than one, which contains the CD+G disc.
- Press READ TOC button to display the tracks of the CD+G disc in the left side panel.
- Press Target button to select a directory in which the encoded files will be stored.
- Select a track you wish to encode by placing a check mark and inputting a title. If you wish to select all, press the Check All button and input a title.

Note: The files encoded will be named as the inputted titles. Assign a different title to each track to avoid overwriting.

- Select a disc drive speed at which the CD+G disc will be read.
- Select the compression rate at which the audio data will be encoded. Normally it is set at 128Kbps.

# HOW TO OPERATE



- Select the Sync timing of lyric display relative to the music. The 75 frames is equivalent to 1 second. Normally it is set at 0.
  - Check the Send Graphic Files button, indicating both audio and graphics are to be encoded.
  - Press Encode button to start encoding tracks of CD+G disc into MP3/CDG files.
- The right side panel will display the extracted files as follows:

Title1 MP3  
Title1 CDG  
Title2 MP3  
Title2 CDG

## B. Encoding MIDI (MID and KAR) files

- Install the CAVS JB-199 Manager program into the remote PC.
- Start the program and click on MDK ENCODER.
- Click on Folder and select the directory in which the MID or KAR files are.
- Select Code for the text language. If the text file is in English, choose 1. English.
- Press MDK ENCODER button to start encoding. When the encoding is completed, Status will show as Finish.
- Press CLOSE button to close the MDK ENCODER window.

## C. Encoding from DVD and Video CD discs

Please download the instruction Encoding from DVD and Video discs from [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm).

# HOW TO OPERATE

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## Transferring Song Files

### A. Sending song files to JB-199

- Start the CAVS JB-199 Manager program in the remote PC.
- Click on JB199 Manager button.
- Click on LOG IN button.
- Input the IP address of the JB-199:
  - \* For JB-199 connected to a local network with the remote PC, obtain the IP address by going to MENU and 1. Jukebox.
  - \* For JB-199 connected to Internet via a broadband modem (no network), obtain the IP address by going to MENU and 1. Jukebox.
  - \* For JB-199 connected to Internet via a Router (network), be sure to assign JB-199 to be the FTP server with Port 21. The instruction can be found with the Router. For LOG IN, obtain the IP address of the Router.
- Input the ID and Password. The default factory setting for ID is “cavsadmin” and Password is “jb199admin”. Press the Log In button.

Note: Be sure to change the password from the factory setting.

- With JB-199 connected, the song list of JB-199 will display in the right side panel.
- Click on FOLDER button on the left side panel. Select a directory in which the new song files are prepared. The song files in the directory will be displayed.
- Edit the song list on the left side panel inputting title and singer.
- Click on SAVE LIST button on the left side panel to save the edited song list and press REFRESH to renew the song list.

Note: The song list can be made using a text editor and saved as juke.txt in the folder. The JB199 Manager program will automatically pick up the juke.txt file when the folder is opened. The format of the juke.txt file is as follows (using “|” as divider):

```
00001|Love me tender|Elvis Presley
00002|I just called to say I love you|Stevie Wonder
...
```

Each title and artist name must be less than 48 characters long.

# HOW TO OPERATE



- Place check marks on the song files that you wish to send to JB-199 and assign song numbers (NUM). You can also click on Auto Numbering to assign the song numbers automatically.

Note: Song numbers (NUM) cannot be saved. They are assigned temporarily for sending files only.

- Click on the right arrow button to begin sending song files to JB-199.

Note: Songs that are grayed out are missing some components and cannot be sent to JB-199.

## B. Backing up song files from JB-199

- Check the songs you wish to backup in the right side (JB-199) panel.
- Click on the left arrow button to begin backing up song files to the remote PC.



# HOW TO OPERATE

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## Program Upgrades

### A. Upgrading JB-199 program

- Download the latest CAVS JB-199 program from [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm).

Note: Save the downloaded file in a directory of your PC and double click on the file to unzip. You will see the new program, JB99NEW.exe.

- Start the CAVS JB-199 Manager program and click on Program upgrade button on the right side panel.
- In the Program Upgrade window, click on FILE. Find the JB99NEW.exe file in your PC and open.
- Click on Upgrade JB99NEW.exe button to send the file and upgrade the JB-199 player.
- Reboot the JB-199 player.

### B. Upgrading JB-199 system files

- Download the latest system files from [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm).

Note: Save the downloaded file in a directory of your PC and double click on the file to unzip. You will see a folder (for example, config, prog, or image).

- Start the CAVS JB-199 Manager program, and click on Program upgrade button on the right side panel.
- Click on Folder button. Find the folder that was downloaded in your PC and open.
- Click on Upgrade Files button to send the folder and its contents to the JB-199 player.
- Reboot the JB-199 player.

# HOW TO OPERATE



## Picture Files

### A. Background video files

Any AVI file can be used as background video file for JB-199. To convert your DVD or home made movie into the background video, search the Internet for the right encoder codec. For example, to convert a DVD movie into AVI file, search for the codec under the title "DVD to AVI". You will find many shareware to help you in your conversion. Also see above Chapter: Preparing Song Files:.

Normally the AVI files of 4Mbps compression or less are recommended for use in JB-199. Higher resolution AVI files may result in degrading the core performances of JB-199.

### B. background still pictures

Any BMP file can be used as background still images. Normally the BMP files of size 800 x 600 24 bit-color are recommended. For still images that are of different sizes, JB-199 will automatically adjust the image to the TV screen. Images of larger than the recommended size may cause blurriness in the picture.

To make BMP files, there are many shareware programs available on the Internet. You can also use the Paint program in Windows for most standard converting and editing of still images.

### C. Transferring picture files

- From the CAVS JB-199 Manager program, click on Picture manager.
- The current video files and still pictures in JB-199 will be displayed on the right side panel.
- Press the FOLDER button on the left side panel. Open the directory which contains the new video or still pictures.
- Check the files that you wish to send to JB-199.
- Click on the right arrow to send the files.

# HOW TO OPERATE

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- Upon completion of transfer, to see the newly added pictures, go to MENU in JB-199 and 6. Video Control.

- \* For video files, go to 2. Video file and select the file you wish.
- \* For still images, go to 3. Still image and select All to load the newly added images. Next change the selection as you wish.

## D. Screen Saver picture file

The screen saver picture file must be of 376 x 162 24 bit-color BMP file. It is transferred to JB-199 using the method of Program Upgrades.

- Make folder \config\ in your PC.
- Insert the screen saver picture file into the \config\ folder.
- Start the CAVS JB-199 Manager program, and click on Program upgrade button on the right side panel.
- Click on Folder button. Find the /config/ folder in your PC that has the screen saver picture file.
- Click on Upgrade Files button to send the folder (and its contents) to the JB-199 player.
- Reboot the JB-199 player.

To make BMP files, there are many shareware programs available on the Internet. You can also use the Paint program in Windows for most standard converting and editing of still images.

# HOW TO OPERATE



## Edit, Save, and Print Song List

### A. Editing song list

- Start the CAVS JB-199 Manager program and log-in to JB199 Manager. The song list of JB-199 player will be displayed in the right side panel.
- Use your mouse to click on a title or singer of a song. Edit the field by typing in the changes. Press Enter.

Note: You must press ENTER after typing to make the changes hold.

- To change the song number, you must back up the song file to PC, delete the song file in JB-199 and then re-send the song file from PC to JB-199 into the new song number.

### B. Saving song list

- Save the changes you made in the song list by pressing SAVE LIST button on the right side panel. Select To JB-199 to save the song list in JB-199.

Note: This will change the song list permanently.

- You can also save a copy of the song list to your PC by pressing SAVE LIST button on the right side panel and then selecting To My PC. The song list will be saved in a text format.

### C. Making a CD copy of the song list from JB-199 player

A copy of the song list can also be written onto a CD-ROM disc directly from JB-199 player with optional disc drive.

- From the initial Welcome screen, press JB/CD button to switch from JUKE to DISC (DISC1/DISC2) mode.
- Press OPEN/CLOSE button on the remote control to open the disc drive and insert a blank CD-ROM disc. Press the OPEN/CLOSE button on the remote control to close the disc drive.

# HOW TO OPERATE



- From the initial Welcome screen, go to MENU and 3. Disc Recording.
- Go to 2. Select file and select Song list.
- Go to 4. Write files and begin writing. When completed, the CD-ROM disc will be ejected and the screen will return to 3. Disc Recording.

Note: The song list written in the CD-ROM disc is of text (txt) format with “|” as the divider between song number, title, and artist. It can be edited in a PC using Word, Excel, or other programs for printing.

## D. Printing a song list

- To print the song list of JB-199 from your PC, press PRINT LIST button on the right side panel.
- Follow the display window to select a printer in your PC and press OK to print.

Note: The song list printed directly from JB-199 will have the default page layout of CAVS. To design you own layout, you can save the song list into your PC and then edit the file using Excel, Word, or any other program.

# HOW TO OPERATE

## Making DataCD

DataCD can be used to download following files into JB-199:

Song files  
Program upgrade  
Background video and still image files  
Configuration files.

The directory structure inside a DataCD containing above files must be

/	- song files with juke.txt
/PROG/	- program upgrade
/IMAGE/MOVIE/	- background video files
/IMAGE/STILL/	- still image files
/CONFIG/	- configuration files.

When a directory is empty, it can be deleted from the structure of DataCD.

### A. Song files

The song file format that can be downloaded into JB-199 are

MP3	- for Audio tracks
MP3 / MCG	- CD+G tracks
MP3 / CDG	- CD+G tracks
MP3 / MP3 / AVI	- DVD tracks
MP3 /AVI	- Video CD tracks
MDK	- MIDI tracks

The CDG file noted in this list is of the graphic file format produced by JBManager or JB-199 Manager program of CAVS. This is different from cdg (rw) files produced by other internet programs without compression.

# HOW TO OPERATE



1. Rename the song files numerically, assigning sequentially one number for one song. For example,

00001.MP3	- Audio track with one MP3 file
00002.MP3	- CD+G track with MP3 and CDG files
00002.CDG	
00003.MP3	- CD+G track with MP3 and MCG files
00003.MCG	
00004.MP3	- DVD track with one AVI and two MP3 files
00004-.MP3	
00004.AVI	
00005.MP3	- Video CD track with one AVI and one MP3 files
00005.AVI	
00006.MDK	- MIDI track with one MDK file
...	

2. Using a Notepad or Wordpad editor, make a text file named Juke.txt of the song list in the following format:

```
00001 | Unbreak My Heart | Braxton, Tony
00002 | After The Loving | Humperdink,Englebe
....
```

The song number, title, and singer name are separated by “|” divider (this symbol is typed by “Shift-\”). Each title and singer name cannot be longer than 48 characters.

3. Insert the song files and Juke.txt file in the root directory of the DataCD.

## B. Background video and still image files

1. For the background video files, make a subdirectory /IMAGE/MOVIE/ and insert the AVI files.

2. For the still image files, make a subdirectory /IMAGE/STILL/ and insert the BMP files.

# HOW TO OPERATE



## C. Program upgrade and configuraton files

Download the upgrade programs and configuration files from [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm). Unzip the files and insert the upgrade programs into the directory /PROG/ and configuration files into the subdirectory /CONFIG/.

D. Having prepared the files you wish to download into JB-199, write the files and the directories into a CD-ROM using any standard disc writing program.

The DataCD, after having been written, should look as follows:

```
00001.MP3
00002.MP3
00002.CDG
00003.MP3
00003.MCG
00004.MP3
00004-.MP3
00004.AVI
00005.MP3
00005.AVI
00006.MDK
...
juke.txt
/IMAGE/MOVIE/homemade.AVI
...
/IMAGE/STILL/barclosingtime.BMP
...
/PROG/startup.EXE
...
/CONFIG/config.TXT
...
```

The DataCD created for JB-99 is compatible and downloadable into JB-199. Be sure to register the song files after downloading into JB-199.



# HOW TO OPERATE

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## Optional Devices



### External disc drive

Two external disc drives can be connected to JB-199 using USB 2.0 connections. Connect the disc drives as shown in Section: How to connect. Turn on the disc drives and reboot the JB-199 player.

A list of recommended disc drives, compatible to JB-199 and CD+G discs, is given at [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm).

When using disc drives, always OPEN/CLOSE the disc drives by using the remote control of JB-199. From the initial Welcome screen, press JB/CD button to switch from JUKE to DISC mode. Press the OPEN/CLOSE button on the remote control to open or close the disc drive.

After inserting a disc, wait a few seconds for JB-199 to load the disc and return the control.

Two disc drives may not be necessary in JB-199 as a song will be read ahead of its play. This can be seen by a display of a rotating disc on the TV screen. The display will close when the song has been completely read, and the disc can be replaced without interrupting the play. The time it takes to read a 4 minute song is approximately 2 minutes after which a new disc can be inserted for a next song.

# HOW TO OPERATE

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## External hard drive

One external hard drive can be connected to JB-199 using USB 2.0 connection. Connect the hard drive as shown in Section: How to connect. Turn on the hard drive and reboot the JB-199 player.

The song data inside the external hard drive must be of same directory structure as the internal hard drive of JB-199.

The songs of external hard drive can be called by its own song numbers plus the Disc 2 number. The Disc 2 number is specified in 1. Jukebox of MENU. It can be changed from its factory setting of 99999 to any number inbetween 1 - 99999. Note that no song number above 99999 can be called in JB-199. Thus for a JB-199 with a Disc 2 number 80000, for example, only the songs with numbers 1 - 19,999 in the external hard drive can be played.



## VGA Monitor

A VGA monitor can be connected to JB-199 using 15 pin D-sub connector. Connect the monitor as shown in Section: How to connect.



## Keyboard and Mouse

A keyboard and a mouse can be connected to JB-199 using mini-din connectors. Connect the keyboard and mouse as shown in Section: How to connect.

# HOW TO OPERATE

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## Windows Platform

JB-199 runs on Windows XP platform. Power off the JB-199 unit. Connect the PC monitor, mouse and keyboard into JB-199 as shown in Section: How to connect.

Power on the JB-199 and at the initial Welcome screen, press Alt-F4. The JB-199 program will halt closing the TV screen, and return the control to Windows shown in the PC monitor.

When in Windows, follow carefully the instruction given by this User's Manual or the website [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm). Any addition or deletion of files or programs may result in serious and un-repairable damages to JB-199.



### USB Camera

#### 1. Installing USB Camera

Connect a USB camera to JB-199. Depending on the camera, Windows will ask to install a driver for the camera. Click OK. Insert the driver CD-ROM (that came with the camera) into the disc drive and follow the instruction for installation.

Do not install the driver of the camera following a program that may pop up from the driver CD. Click Cancel to stop such programs. Follow the Windows instruction to locate the driver for the camera and install only the driver.

To return to JB-199, double click on JB-199 Startup.exe at the desktop.

# HOW TO OPERATE

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## NTSC / PAL

Switching between NTSC and PAL

Go to Start - Settings - Control Panel. Double click on Display to open the Display Properties window. Next go to Settings - Advanced - Displays - TV - Format. Check the Select by format button and choose the format you wish. Click on Apply. Click on OK repeatedly to return to Windows.

To return to JB-199, double click on JB-199 Startup.exe at the desktop.



## Play DVD and Video CD

Windows platform comes with PowerDVD player installed. To play a DVD or Video CD, insert the disc into the disc drive. Click on AVON.exe at the desktop. This enables sharing of audio and video signals with the TV screen and sound system. If you do not wish to share the signals, click on AVOFF.exe on the desktop.

Double click on PowerDVD.exe to start the program. Use the program to play the DVD or Video CD disc. To maximize the viewing screen, double click on the DVD viewing screen. To return, double click on the viewing screen.

To return to JB-199, double click on JB-199 Startup.exe at the desktop.



## Change Welcome (title) page

To change the initial Welcome screen, go to My Computer - C Drive - NJB99 - Config directory. You will find config.txt file inside. Double click on the file to edit with Notepad and search for the code line with "Welcome" at the bottom of the file. Edit the three lines of the initial screen and save the file. Close the directory and return to the desktop.

# HOW TO OPERATE

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## Copy a song list

At the desktop, there is a file copy of the JB-199 song list, JB-199 songlist.txt. This file is newly generated each time the JB-199 is turned on. Copy the file using a disc drive or memory-stick for editing and printing.

To return to JB-199, double click on JB-199 Startup.exe at the desktop.



## CAVS JB-199 Manager program

CAVS JB-199 Manager program, shown in Section: CAVS JB-199 Manager program, is also available in Windows. At the desktop, double click on CAVS JB-199 Manager icon to start. Click on JB199 Manager and press JB199 IN button. You will see the song list of JB-199 on the right side panel. You can edit and save the song list as shown in Section: CAVS JB-199 Manager program.

When in Windows, follow carefully the instruction given by this User's Manual or the website [www.cavsusa.com/jb-199.htm](http://www.cavsusa.com/jb-199.htm). Any addition or deletion of files or programs may result in serious and un-repairable damages to JB-199.

To return to JB-199, double click on JB-199 Startup.exe at the desktop.

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## TROUBLE SHOOTING

There may be various reasons for abnormal operation of the JB-199 unit. Please refer to the trouble shooting guide below. For continuing problems, contract your local dealer or CAVS Tech Support. Also visit [www.cavsusa.com](http://www.cavsusa.com) for the latest update of the User's Manual and the Trouble Shooting guide.

- |   |  |
|---|--|
| 1. No power   | Check the power cord to be firmly connected in both ends.  |
| 2. No audio   | Check the connections to audio output terminals.<br>Check the power and volume level of amplifier.<br>Check the Mute function in JB-199. |
| 3. Howling noise from microphones                   | Move the microphones away from the speakers.<br>Turn down the volume and echo level of microphones                                       |
| 4. No video   | Check the connections to the video output and input terminals  |
| 5. Remote control is not working                    | Check the batteries inside.<br>After a boot up, JB-199 may ignore the first 1 or 2 inputs.   |
| 6. Video is colorless and/or scrolling              | Check the setting of NTSC/PAL mode. See Section: Advanced Functions for changing the mode.   |
| 7. VHS (S-Video) is not working                     | To use VHS (S-Video) output, contact CAVS Tech Support.  |
| 8. Recording only captures music, not vocal         | Connect the microphones to MIC 1 and MIC 2 of JB-199.<br>To record with external microphone inputs, contact CAVS Tech Support.           |
| 9. Video quality of TV is not as good as PC Monitor | Home TV monitor is equipped with far less pixel per area than PC monitor.  |
| 10. Still image picture in TV looks blurry.         | Still image file size should be equal to or less than 800x600.<br>The blurriness will happen when the picture is forced to be resized.   |



## SPECIFICATION



System	Digital Jukebox player
Disc playable	Super CD+G, CD+G, Audio CD
Hard drive	EIDE/IDE 7200 RPM (Internal) External USB 2.0 (External)
Disc drive	Plextor CDR (52/32/52, 48/24/48, etc.) Plextor DVDR (PX-504, PX-708, PX-712, etc.)
Input terminals	Microphone input (1.2mV(600 ohm)) x 2 Keyboard input (Mini-din) Mouse input (Mini-din) LAN input (100 Mbps/10Mbps) USB input (2.0) x 2 Video in (RCA Composite) Power input (110V/60Hz, 220V/50Hz)
Output terminals	Video output (Composite, 1Vp-p (75Ohm)) x 2 Audio output (Stereo, 2.0 Vrms(max)) x 2 VHS (S-Video) output VGA output (15 pin D-sub RGB) Control output (Pin header 2 x 4) Bill/Coin connector (OPDIN)
Power	AC 110V/60Hz, 230V/50Hz 200W
Dimension	420 x 100 x 350 mm
Weight	9.0 Kg

**Note : Technical specifications are subject to change without notice.**

# CAVS LIMITED WARRANTY

CAVS KARAOKE JUKEBOX

CAVS USA Inc. warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS	LABOR
<b>1 YR</b>	<b>90 DAYS</b>

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

## WHAT WE WILL DO :

If this products is found to be defective, CAVS will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by CAVS during normal business hours at CAVS authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts there of may be brought to a CAVS authorized service center on a carry-in basis.

## WHAT YOU MUST DO FOR WARRANTY SERVICE :

Return your product to a CAVS authorized service center with a copy of your bill of sale. For your nearest CAVS authorized service center, please call : (562) 777-1846.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest CAVS Factory Service Center, the name and location of which will be given to you by the phone.

If you have any questions concerning your CAVS Product, please contact our Technical Support Department.

## WHAT IS NOT COVERED :

This limited warranty provided by CAVS does not cover :

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by CAVS to render such service, or if affixed any attachment not provided with the products, or if the model number or serial number has been altered, tampered with, defaced or removed ;
2. Initial installation and removal for repair ;
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning ;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage ;
5. Signal reception problems and failures due to line power surge ;
6. Video Pick-up, Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase ;
7. Accessories ;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase) ;

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

CAVS SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

CAVS USA Inc.

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Santa Fe Springs, CA 90670

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

## For customer use :

Enter below the Model No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. :

Serial No. :

Purchase data :

Name of dealer :



# **CAVS USA INC.**



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