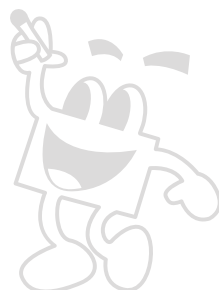
















Better Music Builder® is a leader in the Audio and Karaoke equipment industry. We are committed to offering you high quality audio products. Unlike any others brand, we deliver the best cost and value to you directly. We may update our manual on short notice, so we highly recommend downloading the latest update information including operation manuals, installation instructions, and other new technologies updates, etc. from our website www.BetterMusicBuilder.com.

AUDIO VIDEO EFFECTS PROCESSOR DX-6000



Thank you for purchasing this unit. To make full and effective use of this unit, please read this Owner's Manual carefully before operating it. Please retain this manual for future reference.

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INTRODUCTION

Our engineering team at Better Music Builder® uses state-of-the-art audio technologies to design this product. The DX-6000 Mixer is a CPU-controlled mixer with eight channels to maximize the sound quality and effects. It is the most customizable machine ever created by Better Music Builder®.

The design principle for the new DX-6000 Mixer is flexibility. Customers usually buy a great quality system only to end up with their new system not compatible with their current set up. At Better Music Builder® we recognize our customers have different audio and entertainment needs. The DX-6000 Mixer provides them with that need of having a system that is compatible with any set up they may have, without lacking in performance. The DX-6000 Mixer is designed to cater to your ideal music and audio connection.

New features for Better Music Builder's mixer line include a headphone jack for monitoring effects. Also new is the added PC control software made popular by the DX-222 G2 and DX-288 G2 Mixing Amplifier, "Effect Control Software Suite." With it, the DX-6000 Mixer can be connected with a PC with built-in control software through USB.



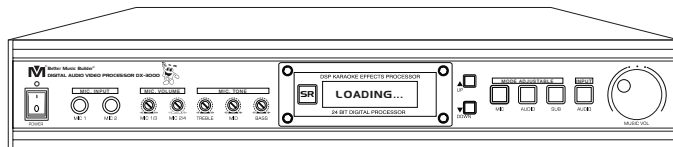
SYSTEM FEATURES

AUDIO VIDEO EFFECTS PROCESSOR:

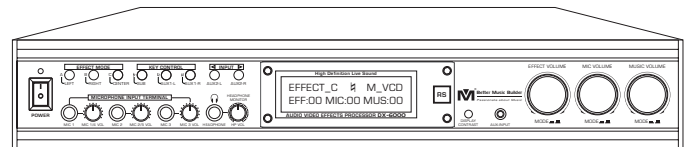
- Controllable by computer through USB extension
- Two sets of subwoofer inputs
- Two sets of center speaker inputs
- Four sets of speaker inputs for 2 pairs of main speakers
- Special microphone effect adjustments, Delay, Repeat, and Echo.
- Three preset mic effects
- Four independent microphone inputs
- Mic exciter with own adjustments
- Allows for both bypassing and non-bypassing XLR balanced paths for audio signals.
- Professional stereo digital tone modification makes the sound more natural
- Built-in crossover circuit, independent bass signal output
- Parameter saved automatically, the data won't be missed if turn off equipment
- System can be adjusted and controlled through software run

REFERENCE for AUDIO VIDEO EFFECTS PROCEDURE

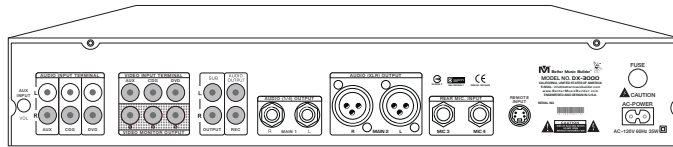
AUDIO VIDEO EFFECTS PROCESSOR **DX-3000** Front View



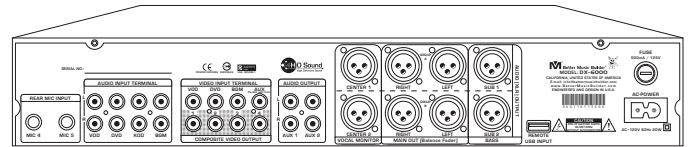
AUDIO VIDEO EFFECTS PROCESSOR **DX-6000** Front View



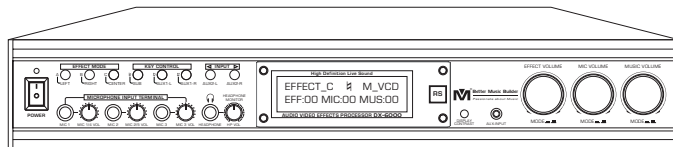
AUDIO VIDEO EFFECTS PROCESSOR **DX-3000** Rear View



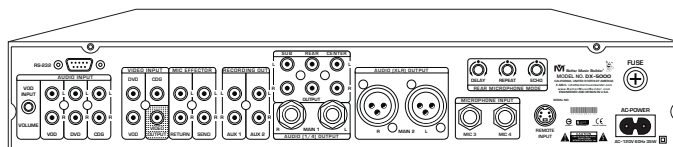
AUDIO VIDEO EFFECTS PROCESSOR **DX-6000** Rear View



AUDIO VIDEO EFFECTS PROCESSOR **DX-5000** Front View



AUDIO VIDEO EFFECTS PROCESSOR **DX-5000** Rear View





SAFETY INSTRUCTIONS

We will not notify you any errors or changes in this manual in advance. If there are any errors and changes in this manual, we will make the corrections in a timely manner. The corrections and changes will be appeared in our website. Therefore, please visit our website at BetterMusicBuilder.com frequently to find out the most updated information, corrections on errors and changes in this manual. You may also contact us at toll free at 1-800-318-2218.

<b style="font-size: 1.2em;">CAUTION
<small>RISK OF ELECTRIC SHOCK DO NOT OPEN</small>
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL

1. Read Instructions: All the safety and operation instructions should be read before this product is operated.
2. Retain Instructions: The safety and operating instructions should be kept for future reference.
3. Warnings: All warnings on this product in these operating instructions should be followed.
4. Follow Instructions: All operating and other instructions should be followed carefully.
5. Water and Moisture: This product should not be used near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, swamp or salivating St. Bernard dog, etc.
6. Cleaning: Clean only with a dry cloth.
7. Ventilation: This product should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be placed on a bed, sofa, rug, or similar surface that may block any ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.
8. Heat: This product should be stayed away from heat sources such as radiators, or other devices producing heat.
9. Power Sources: This product should be connected to a power supply only of the type described in these operation instructions or as marked on this product.
10. Power Cord Protection: Power supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them. Please pay particular attention to cords plugs, convenience receptacles, and the point where they exit this product.
11. Object and Liquid Entry: Care should be taken so that objects do not fall on, or liquids are not spilled into this product.

12. Damage Requiring Service: This product should be serviced only by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has spilled into this product; or
- C. This product has been exposed to rain; or
- D. This product does not appear to operate normally or exhibits a marked change in performance; or
- E. This product has been dropped, or its chassis has been damaged.

13. Servicing: The user should not attempt to service this product beyond those means described in this operating manual. All other servicing should be referred to the Service Department.

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

15. Grounding or Polarization: Precautions should be taken so that the grounding or polarization means of this product is not defeated.

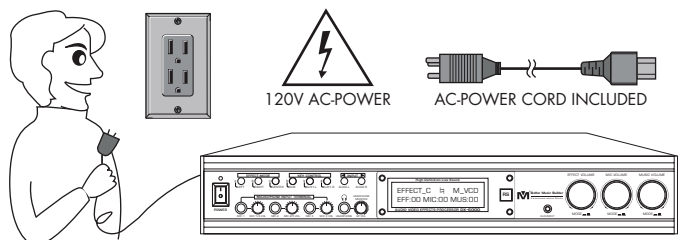
16. Power Precaution: Unplug this product during lightning storms or when unused for long periods of time. Note that this product is not completely disconnected from the AC power source when the power switch is in the OFF position.

17. This machine does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the US Department of Communications.

AC-POWER SOURCES

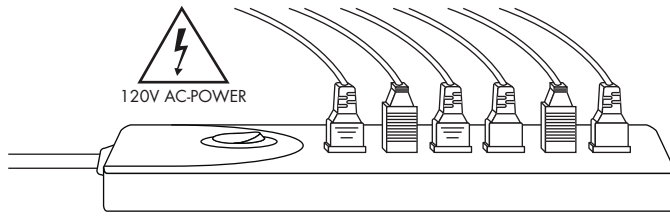
This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, or other sources, refer to the operating instructions.

This unit is designed for use with 120V/60Hz AC. If the area where you live have different power source, you may need to use a transformer to convert to 120 Volts AC.



OVERLOADING

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

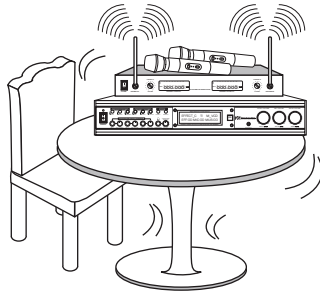


An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

Do not place the electronic equipment onto the unstable table or stand.

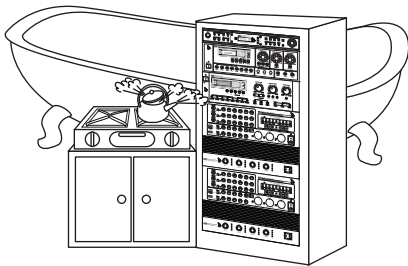
It is because it would fall easily from the unstable table or stand, so it may cause accident including personal injuries and damage the equipment.

Please follow our instructions to install the equipment, or you may hire a professional technician to handle the installation for safety purpose.



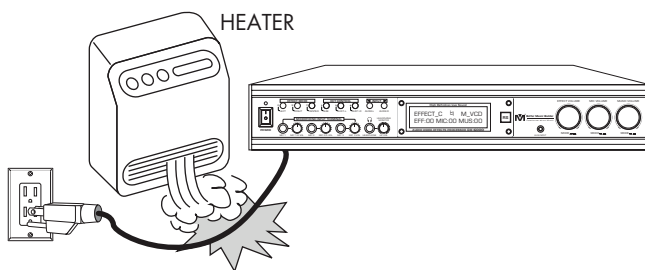
Do not store the electronic equipment near water or area with moisture

such as bathroom, kitchen sink, laundry area and swimming pool, etc.



Do not place the electronic equipment near heat sources

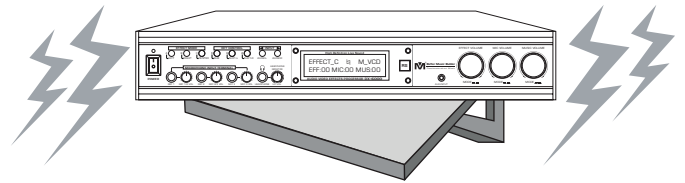
such as stoves, radiators and heaters, etc. Placing the electronic equipment too near to these heat sources would result in damaging the equipment and causing fire.



Do not place the set on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart stand tripod, bracket, or table recommended by the manufacturer.

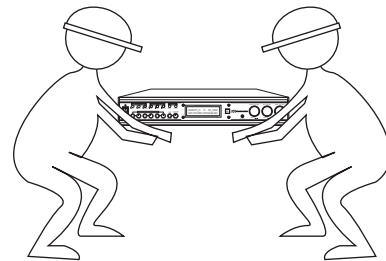
For the set with a three-wire grounding type ac plug:

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 have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.

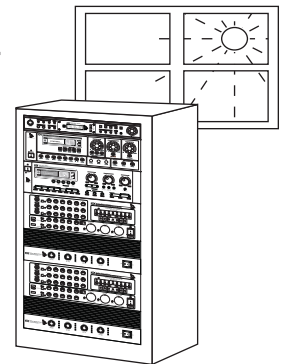


Do not transport the electronic equipment by yourself if its weight exceeds 70 pounds.

It is recommended that two people work together to transport the equipment or by using hand truck and the like.

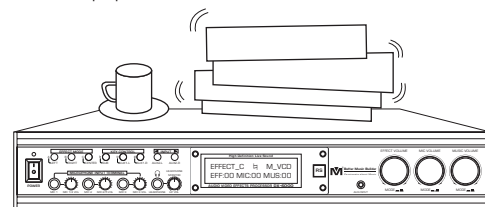


Do not place the electronic equipment directly under sunlight or close to the window. It may cause overheat on the electronic equipment by the sunlight.



Do not block the openings and vents in the cabinet which is designed for the ventilation of the electronic equipment.

The blocking may cause overheat in the electronic equipment because of insufficient circulation of air, so it would damage the electronic equipment.



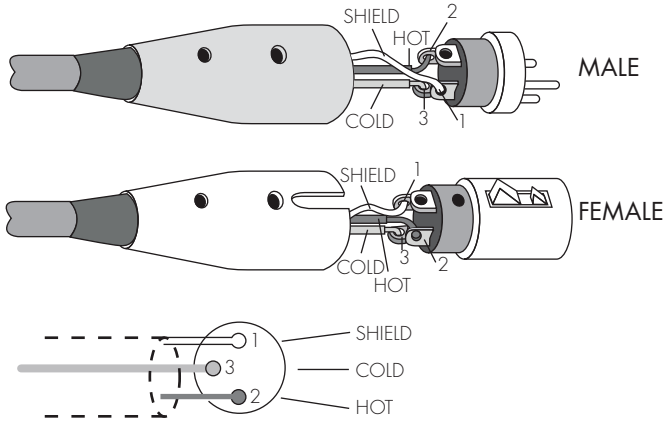


SYSTEM APPLICATIONS

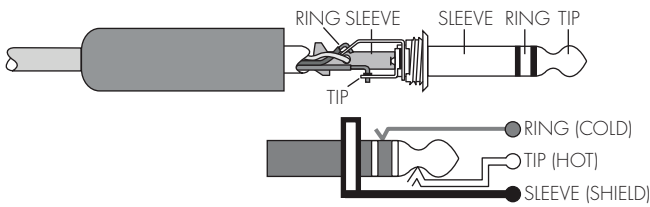
CONNECTOR INFORMATION

Balanced XLR Connectors

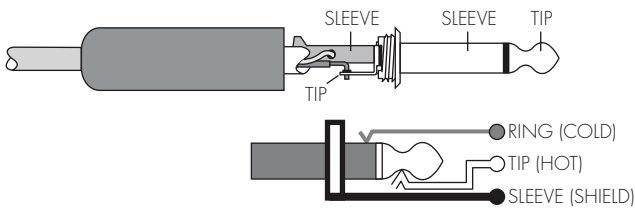
	XLR	TRS
Hot (+)	Pin 2	Tip
Cold (-)	Pin 3	Ring
Shield (Ground)	Pin 1	Shield



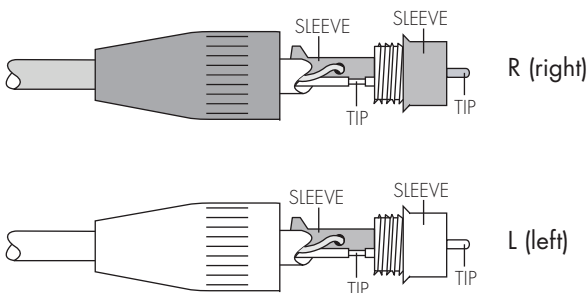
Balanced 1/4" TRS Plug



Unbalanced 1/4" TRS Plug

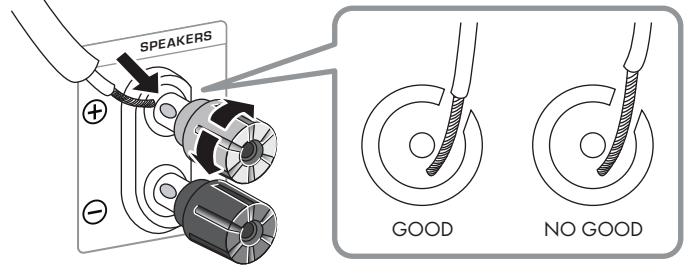


RCA Unbalanced Jack

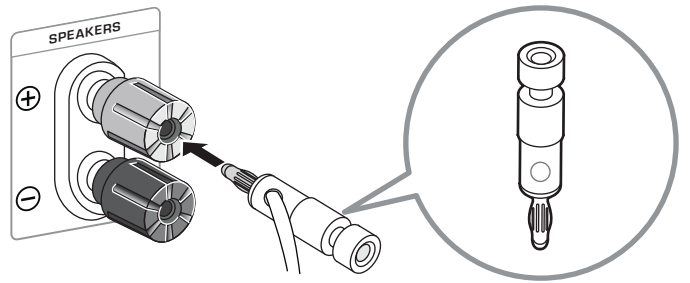


METHODS OF SPEAKER CONNECTION

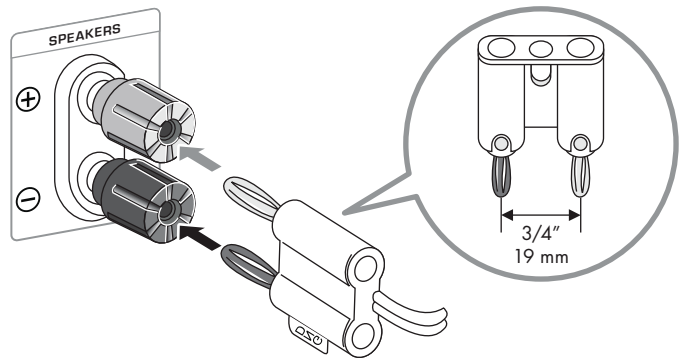
1. Insert Type (Poor Connection)



2. Single Banana Plug Type (Better Connection)



3. Double Banana Plug Type (Standard Connection)



Either banana plug or insert type can be used to connect the unit to speakers. Be sure to connect red (+) to red (+) and black (-) to black (-). Otherwise, the sound output would be 180° out of phase and distorted.

Follow these steps if you are inserting the wire directly into the speaker terminal.

1. Strip off the vinyl covering and twist the tip of the wire core.
2. Loosen the knob and insert the wire core into the terminal hole.
3. Tighten the knob to fix the wire core in place.

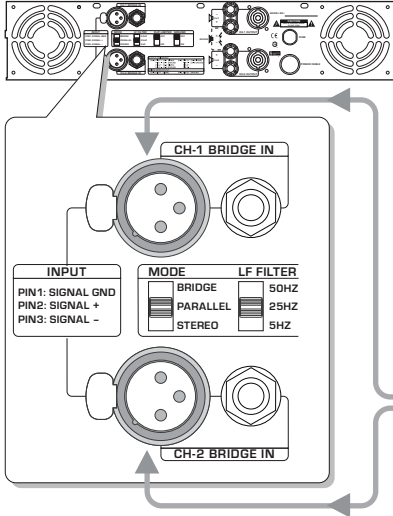
Do not allow the wire core to protrude or touch other terminals or wires.

If the cores of differing wires touch, damage may result to your components.

CONNECTING THE POWER AMPLIFIER TO MIXER

AUDIO BALANCE OUTPUT TO MAIN OUT

POWER AMP REAR VIEW

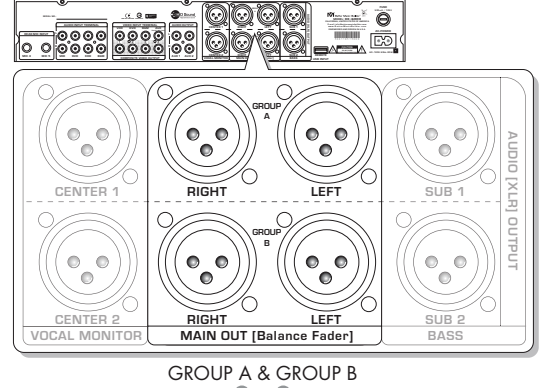


The Audio 1/4 unbalanced cable is a standard audio signal connection. The XLR balanced cable is a higher signal quality connection which we strongly recommend for best audio performance. However, both types of connection **CAN NOT** be connected at the same time.



AUDIO (XLR) BALANCE OUTPUT

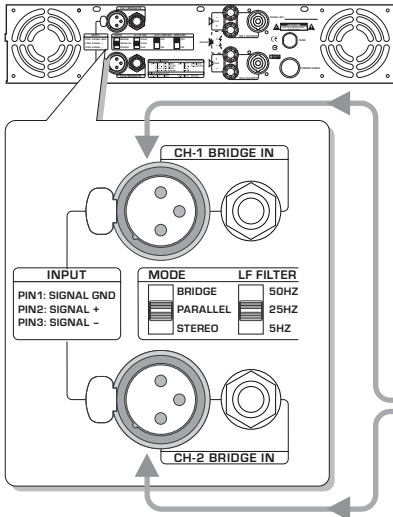
DX-6000 REAR VIEW



GROUP A & GROUP B

AUDIO BALANCE OUTPUT TO VOCAL MONITOR

POWER AMP REAR VIEW

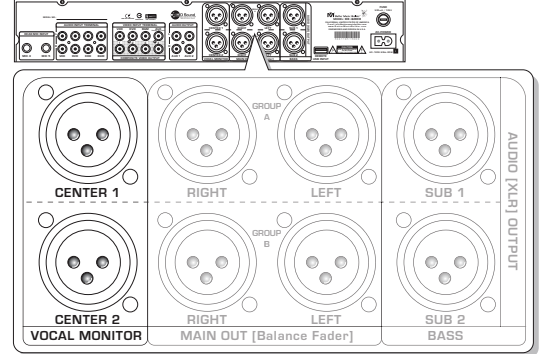


The Audio 1/4 unbalanced cable is a standard audio signal connection. The XLR balanced cable is a higher signal quality connection which we strongly recommend for best audio performance. However, both types of connection **CAN NOT** be connected at the same time.



AUDIO (XLR) BALANCE OUTPUT

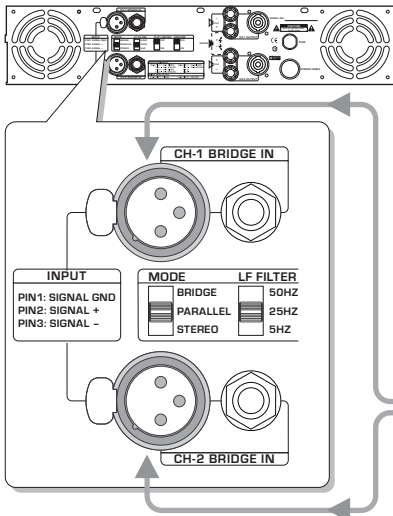
DX-6000 REAR VIEW



CENTER 1 & 2

AUDIO BALANCE OUTPUT TO SUB

POWER AMP REAR VIEW

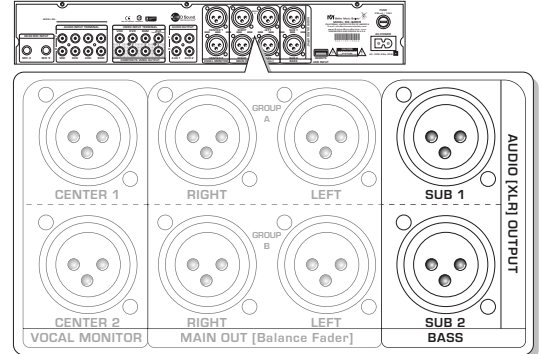


The Audio 1/4 unbalanced cable is a standard audio signal connection. The XLR balanced cable is a higher signal quality connection which we strongly recommend for best audio performance. However, both types of connection **CAN NOT** be connected at the same time.



AUDIO (XLR) BALANCE OUTPUT

DX-6000 REAR VIEW



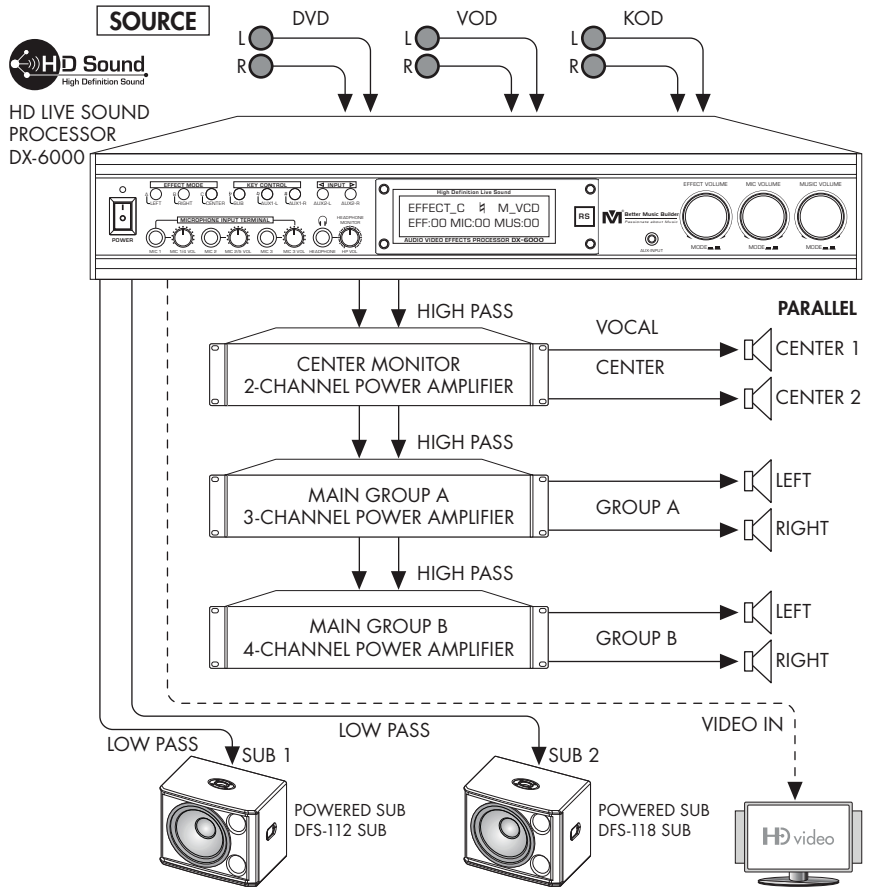
SUB 1 & 2

DYNAMIC FUSION SYSTEM OPERATES WITH 5-D PRO AUDIO (LARGE FORMAT)

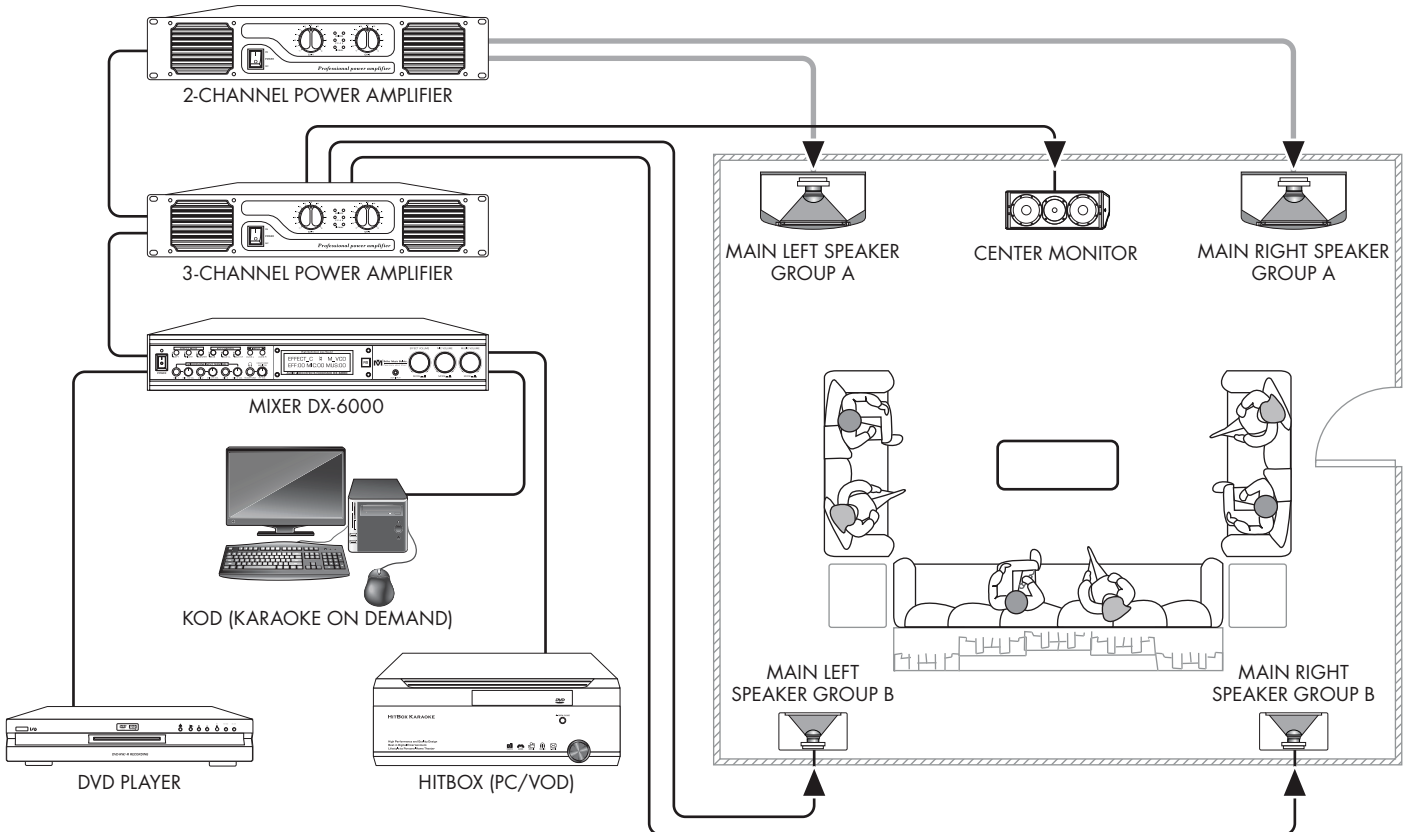
Better Music Builder® has a DX-6000 audio/video effect processor that can provide five divisions (5-D) pro audio for large format use. The DX-6000 processor needs to operate with three powered amplifiers (i.e. one powered amplifier to drive two center vocal monitor speakers in parallel, another powered amplifier to drive Group-A speakers for high and mid range frequency, and third powered amplifier to drive Group-B speakers for full range frequency).

DX-6000 provides low frequency line out to one or two powered subwoofers. The whole concept borrows the idea of a 5-channel home theater to produce a live sound effect in our system. You can use this system for public and commercial use. Better Music Builder® have three different models of powered amplifiers to operate with the Dynamic Fusion System.

NOTE For installation, we highly recommend you hiring a professional audio contractor to do the job for safety purpose.



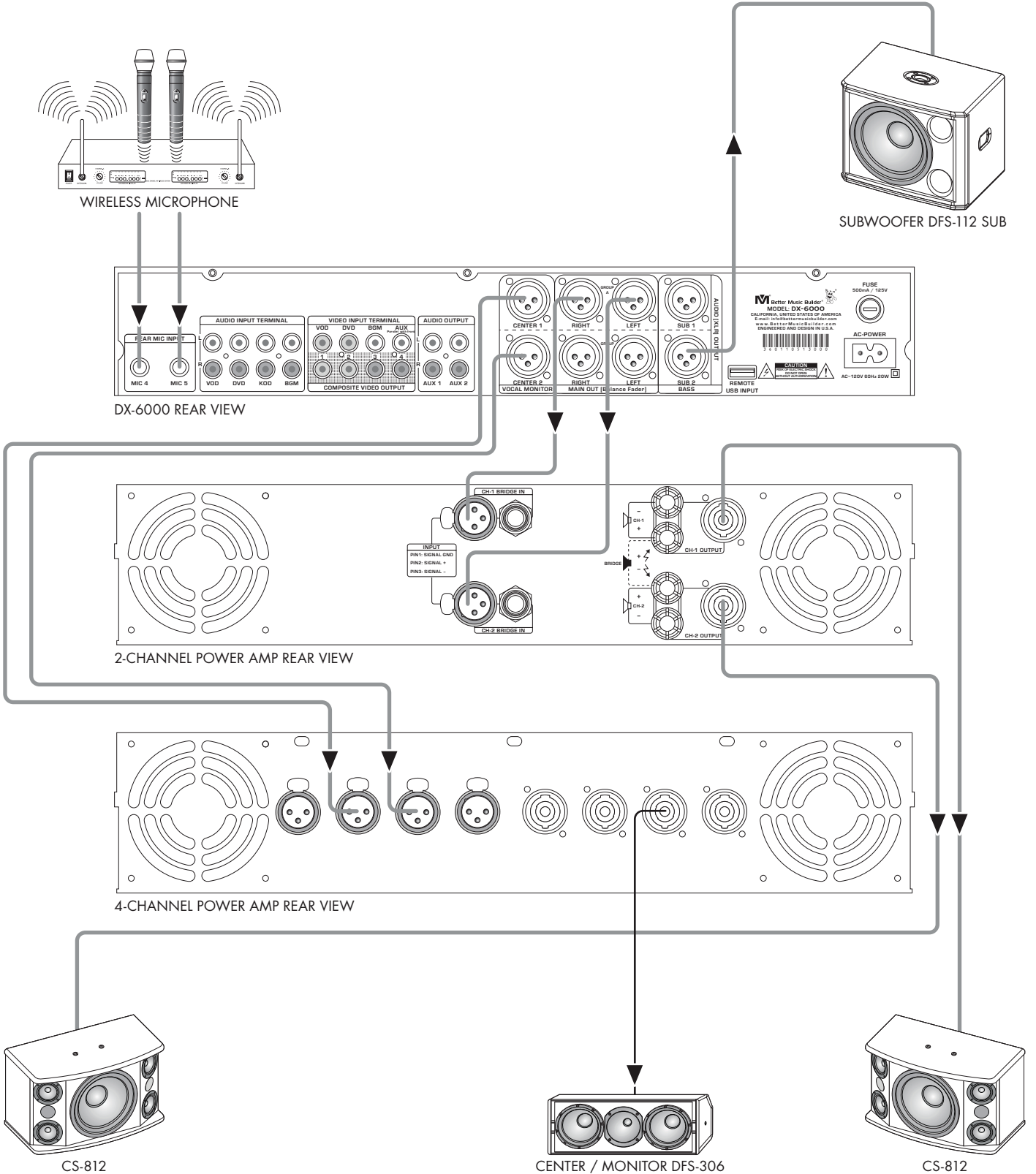
CONNECTING THE OUTPUT SOURCE



SMALL FORMAT

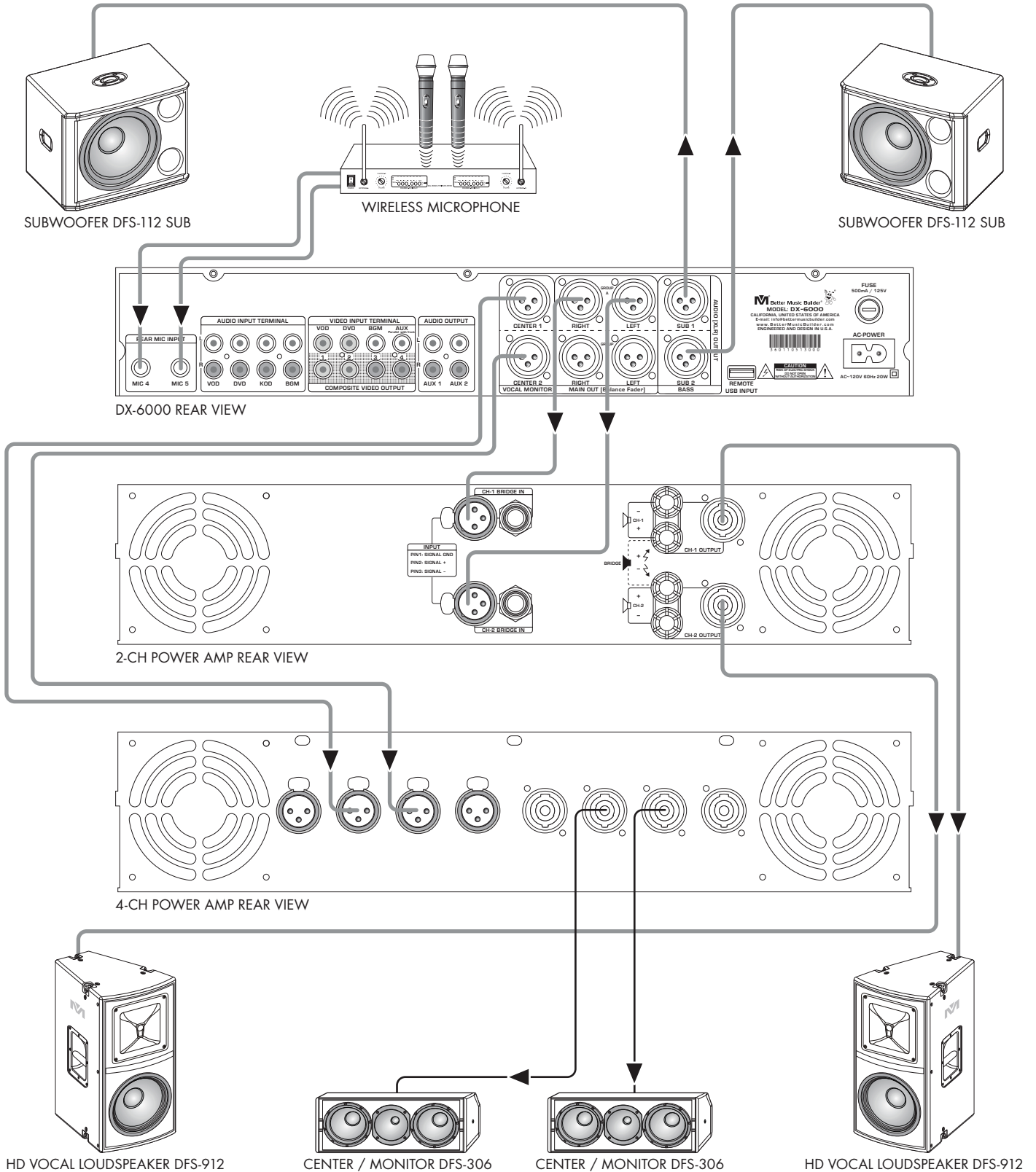
The new DX-6000 is a multipurpose pre-amp that helps justify all enhancement of audio entertainment. It provides the application to enable the ideal music and audio connection. By making the DX-6000 in small, medium, or large format, allows optimization of any sound systems without loss of quality.

The small format is great for compact system that uses less power such as the home living room or café shop.



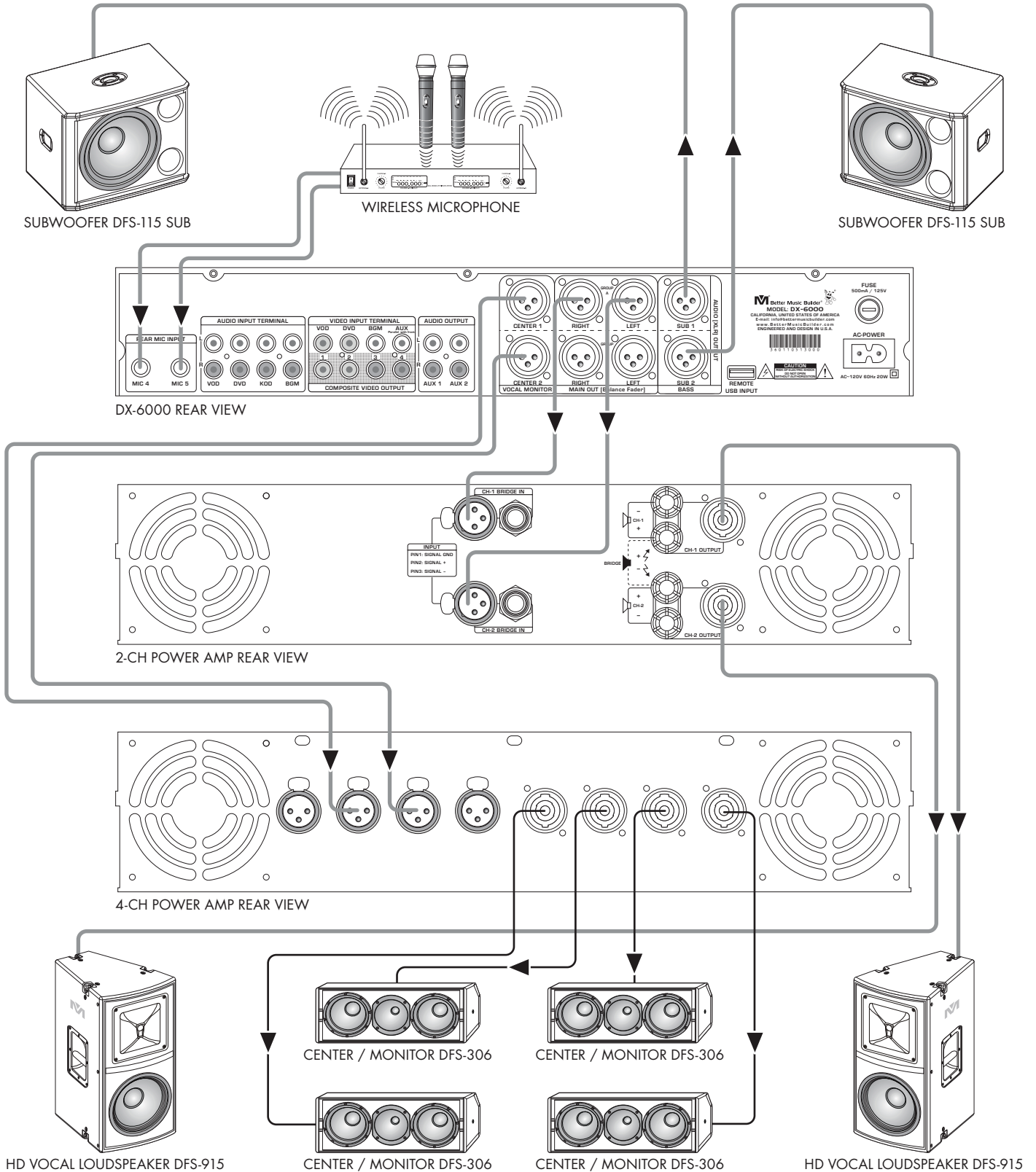
MEDIUM FORMAT

The medium format gives additional enhancements for speakers requiring higher power and bass.

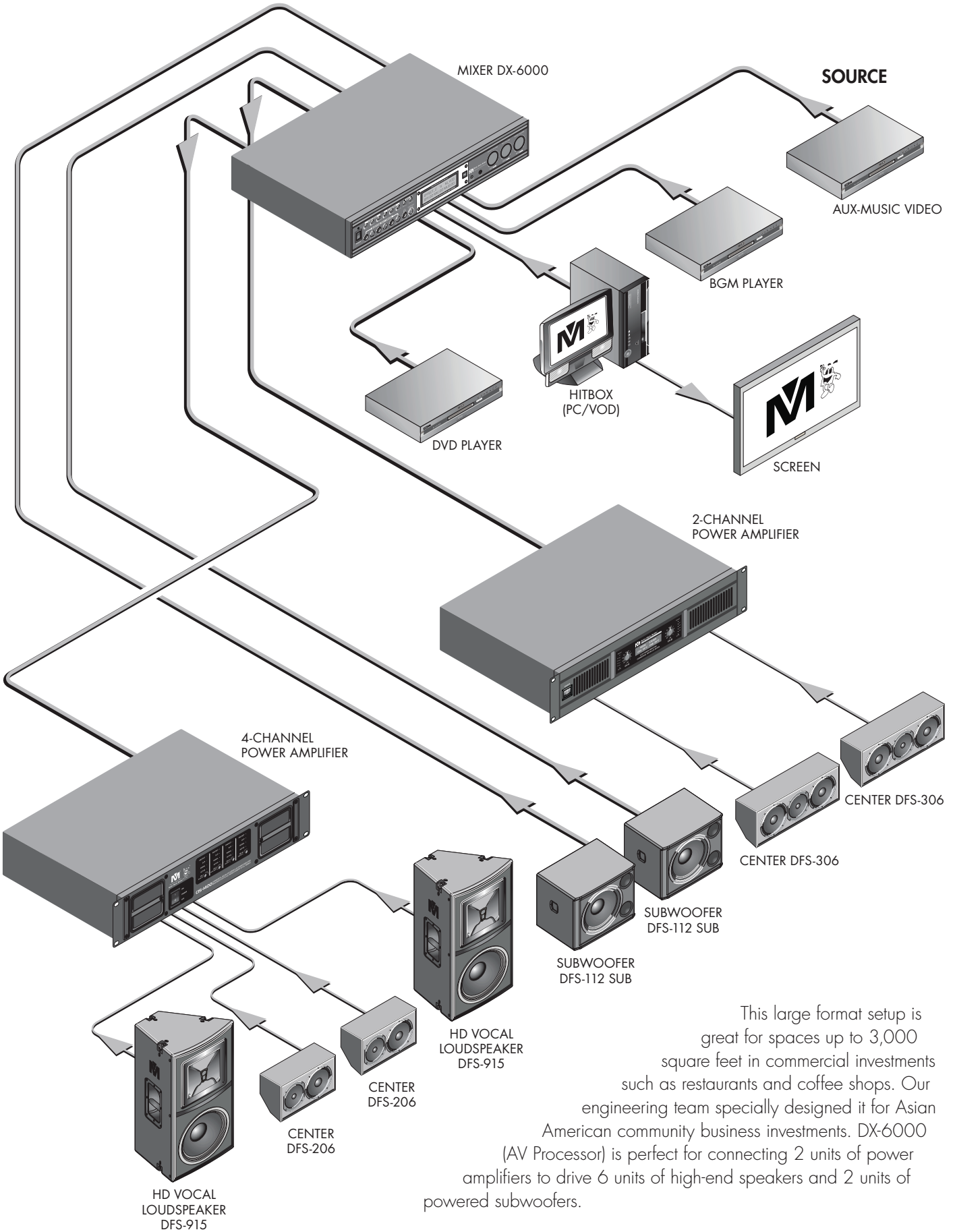


LARGE FORMAT

The large format is great for multiple speakers which require even higher power great for concerts and live performances suitable for use with high power amps to match speaker power consumption.



CONNECTING THE WHOLE SYSTEM FOR LARGE FORMAT



This large format setup is great for spaces up to 3,000 square feet in commercial investments such as restaurants and coffee shops. Our engineering team specially designed it for Asian American community business investments. DX-6000 (AV Processor) is perfect for connecting 2 units of power amplifiers to drive 6 units of high-end speakers and 2 units of powered subwoofers.

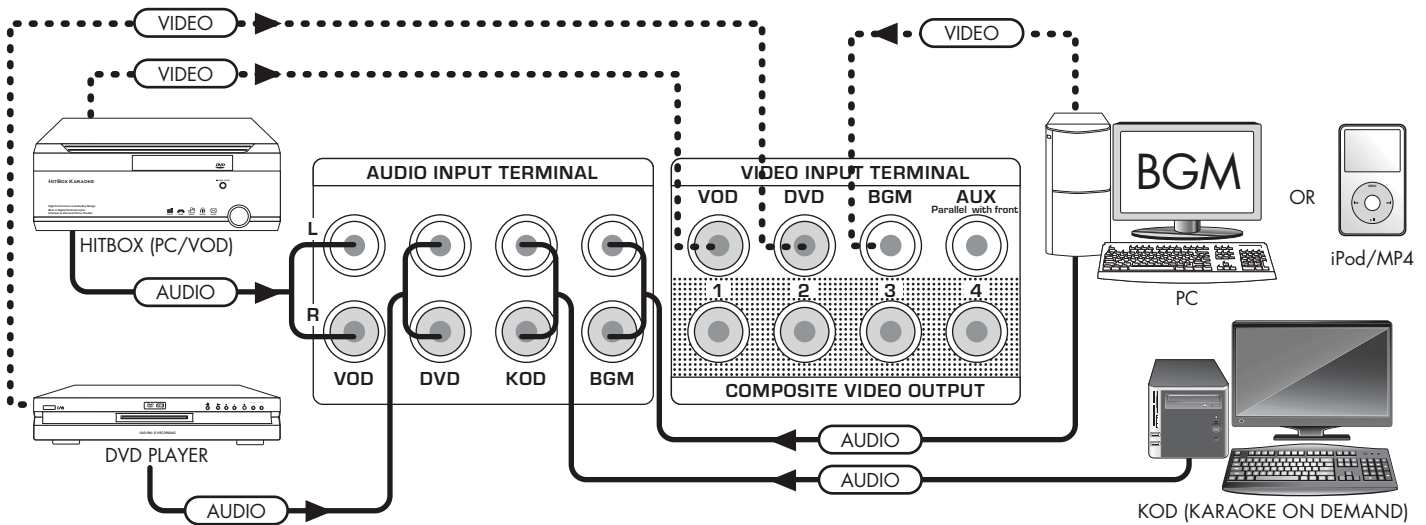
CONNECTING THE AUDIO/VIDEO INPUT SOURCE

Before connecting the source (i.e. BGM, KOD, DVD and VOD Karaoke), turn off the power for all machine, so it would protect electric shock and prevent damage to the equipment. To connect the AV source, the first thing to do is to connect the audio source to the amplifier input. Then, connect the video source. Please refer to the following diagram. To ensure high quality sound and video, we recommend using high quality cables and connectors.

KOD stands for Karaoke On Demand. It is a type of player with built-in hard drive capable of storing huge amount of songs and videos.

VOD - Video On Demand is an all inclusive software and hardware management tools. It is controlled by a computer which contains all the song/video data. The VOD is capable of handling all the accounting management includes food/beverage, hourly room rentals, content and distribution of songs/video on an as needed basis. This is the main workhorse of the KTV commercial business.

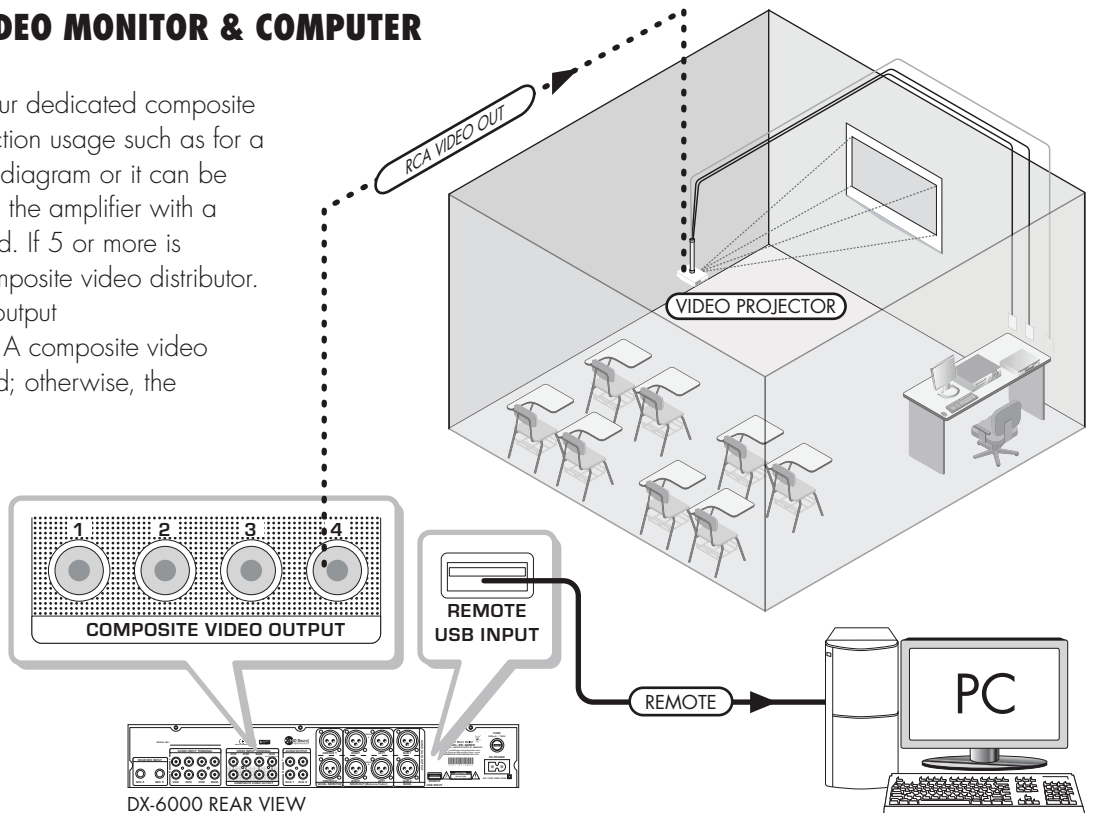
NOTE All songs copyright have to be consented before installed into VOD. When there's a humming sound after you turned on the machine, you may have made a mistake by hooking up the audio input into the video input, or vice versa.



CONNECTING THE VIDEO MONITOR & COMPUTER

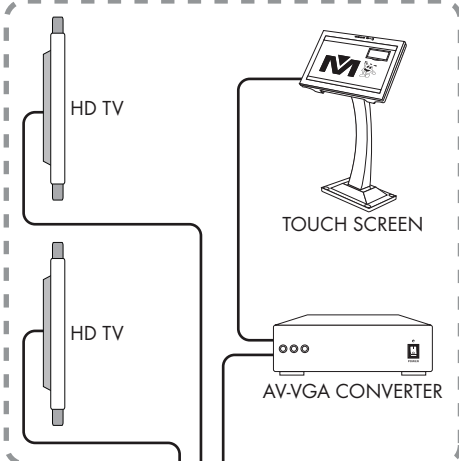
The DX-6000 comes with four dedicated composite video output. Typical connection usage such as for a small classroom show in the diagram or it can be used similarly in connecting to the amplifier with a KTV video touch screen stand. If 5 or more is needed, use an external composite video distributor. If the wiring distance to the output source is more than 25 feet. A composite video amplifier distributor is needed; otherwise, the video will be very poor.

The REMOTE USB INPUT in the rear is used for connecting to the PC in order to utilize the included Effect Control Software Suite. The software allows the user to control the effects of the DX-6000 on the PC.

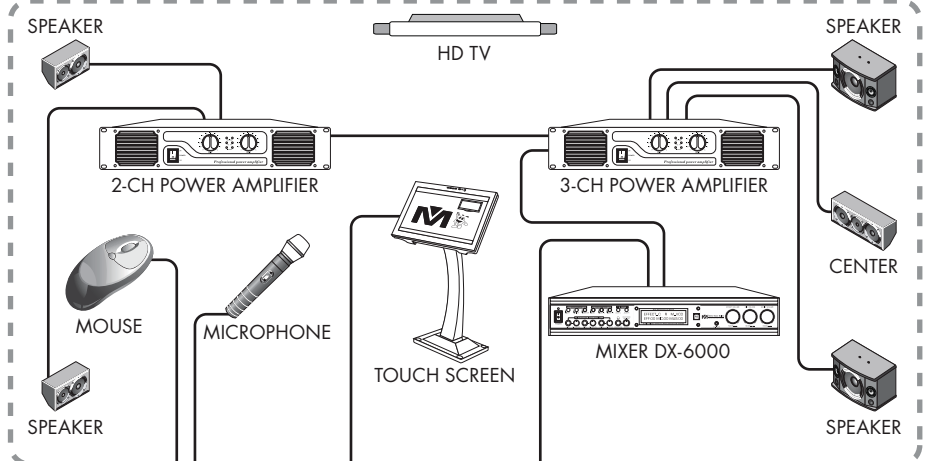


KTV COMMERCIAL APPLICATIONS

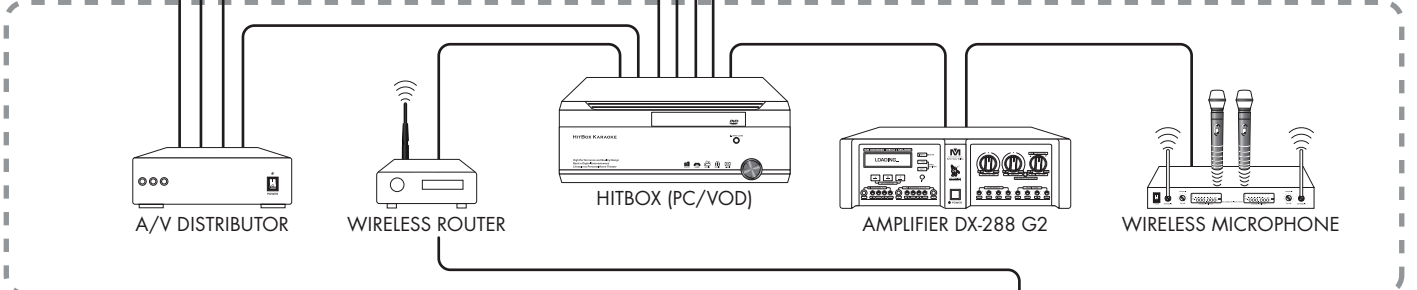
PERFORMANCE STAGE



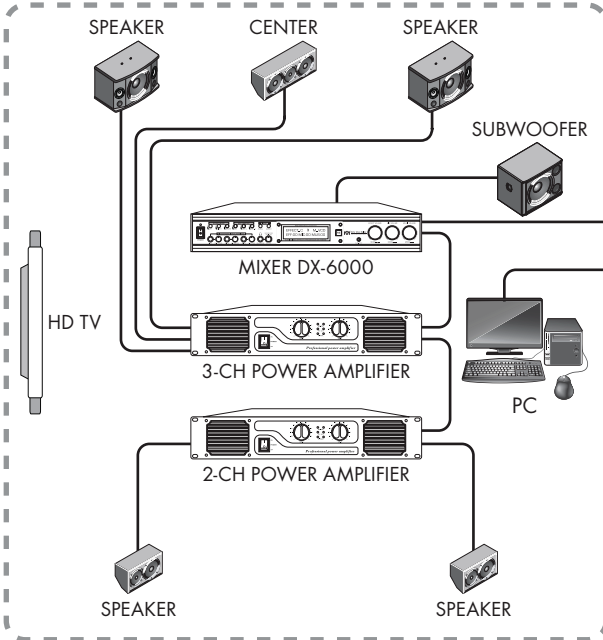
SONG SELECTION MONITOR



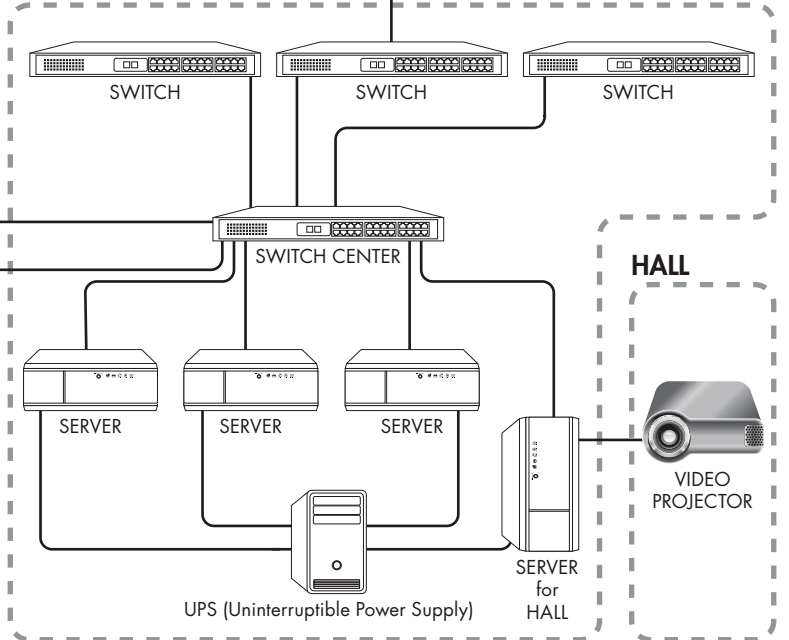
TV CABINET



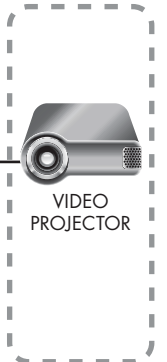
BAR



EQUIPMENT ROOM



HALL



Karaoke clubs in Asia has perfected the use of interconnecting their audio systems together through a central mainframe. By using software and servers the audio systems, song selections, and even service are provided through a touch-screen panel. The computer has become the master controller of the audio system.

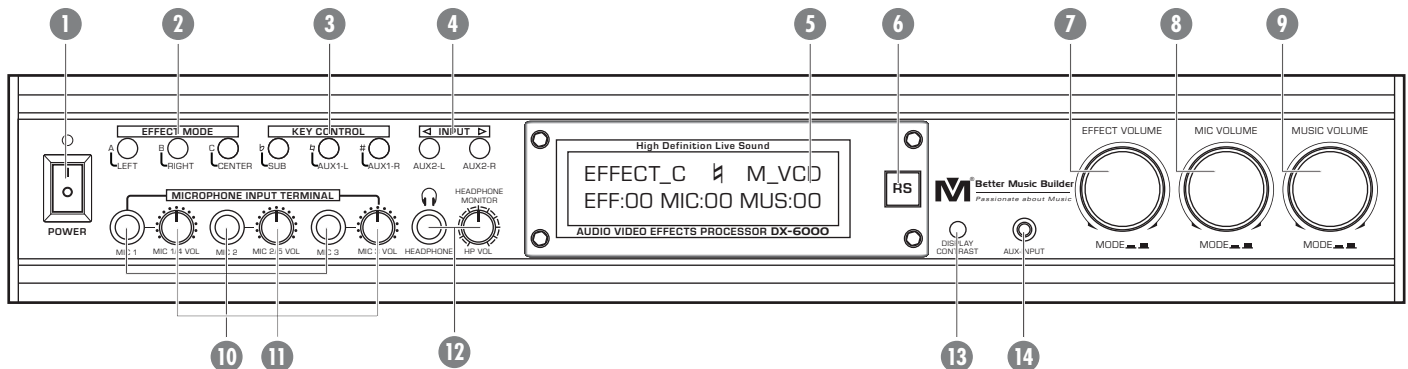
Better Music Builder adopts these principles within the design of our latest the DX-6000 allow users the effective control of their system through computer and laptop via a simple USB connection to the mixer. Thereby providing a connected and efficient software use for home users and professionals to enhance and maintain their audio entertainment.



CONTROLS AND FUNCTIONS

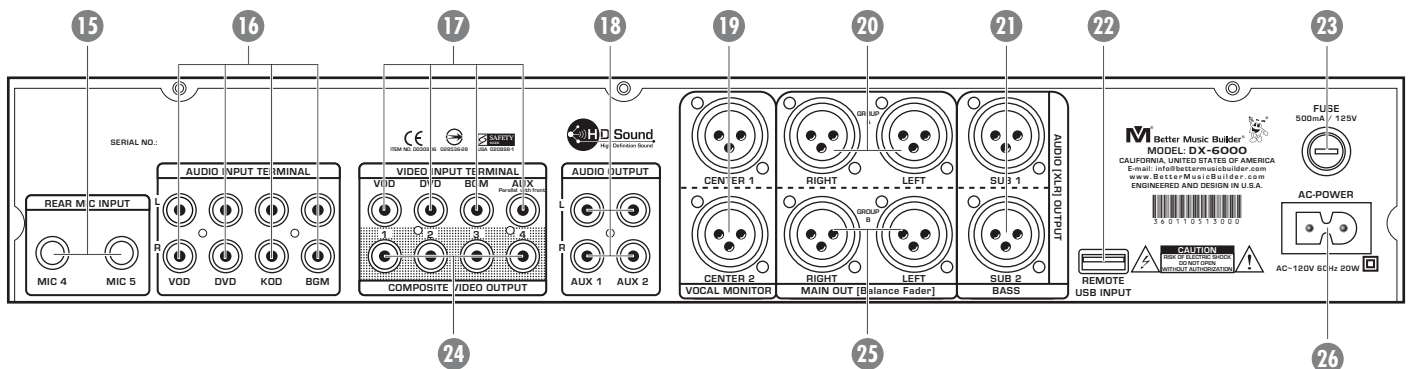
FRONT PANEL:

- 1 POWER SWITCH ON/OFF**
- 2 EFFECT MODE**
Consists of 3 selectable effect settings.
In subprogram, the keys are accordingly referred to 8-channel of output volume or effect, vocal and proportion of music distribution.
- 3 KEY CONTROL**
Controls the music key setting. The "b1~b4" flat lower the musical note by half a step. While "#1~#4" sharp increase the musical note by half a step. And natural sign "n" is used to cancel a flat or sharp from a preceding note.
In subprogram, the keys are accordingly referred to 8 channels of output volume or effect, vocal and proportion of music distribution.
- 4 INPUT SELECTION**
Uses to select the music source input. The mixer supports VOD, DVD, KOD, and BGM.
In subprogram, the keys are accordingly referred to 8 channels of output volume or effect, vocal and proportion of music distribution.
- 5 LCD WINDOW**
Display user's operating information and equipment mode.
- 6 INFRARED SENSOR FOR REMOTE CONTROL**
- 7 EFFECT VOLUME**
The master MIC effect control.
- 8 MIC VOLUME**
The master MIC volume control.
- 9 MUSIC VOLUME**
The master music volume control.
- 10 MICROPHONE INPUTS (SUPPORTS 1/4 INCH JACK)**
- 11 MICROPHONE GAIN CONTROLS**
Control the amount of overdrive or "distortion." They increase the internal amplification of the microphone. These knobs affect the microphone volume.
- 12 HEADPHONE JACK (SUPPORTS 1/4 INCH JACK) and VOLUME CONTROL**
- 13 DISPLAY CONTRAST**
Adjust LCD contrast, the least position in anticlockwise means the lowest contrast, the maximal position in clockwise means the highest contrast.
- 14 EAUX-INPUT**
Input for audio sources such as MP3 players.



REAR PANEL:

- 15 MICROPHONE INPUTS (SUPPORTS ¼ INCH JACK)**
Share the same microphone gain controls with MIC 1 and MIC 2 of front panel.
- 16 AUDIO INPUT TERMINAL**
4 audio input sources: VOD, DVD, KOD, and BGM.
- 17 VIDEO INPUT TERMINAL**
4 video input sources: VOD, DVD, BGM, and AUX.
- 18 AUDIO OUTPUT TERMINAL**
AUX 1 and AUX 2 stereo output.
- 19 AUDIO (XLR) OUTPUT TERMINAL**
VOCAL MONITOR: CENTER 1 & 2. Connects to an amplifier.
- 20 AUDIO (XLR) OUTPUT TERMINAL**
MAIN OUT [Balance Fader]: Group A (Left & Right) Connects to an amplifier.
- 21 AUDIO (XLR) OUTPUT TERMINAL**
BASS: SUB 1 & 2. Connects to an amplifier.
- 22 REMOTE USB INPUT**
This USB input is specially designed to connect VOD control panel and/or the optional programmable “Effects Control Software Suite” connector.
- 23 FUSE**
This is housing for the power supply fuse.
- 24 COMPOSITE VIDEO OUTPUT TERMINAL**
- 25 AUDIO (XLR) OUTPUT TERMINAL**
MAIN OUT [Balance Fader]: Group B (Left & Right) Connects to an amplifier.
- 26 AC POWER**

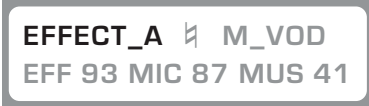
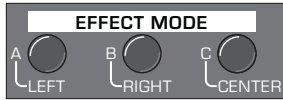




LCD CONTROL PANELS OPERATION

HOME PANEL (MAIN SCREEN)

A. The first parameter on LINE 1 of the LCD main screen is the "Effects Setting." The default is EFFECT_A, which states that the Effect Setting is set at C. There are a total of 3 selectable effects: A, B, and C. The effects represent a small, medium, and large room respectably.



B. The second parameter on LINE 1 of the LCD main screen is the "Music Key Settings." The "b1~b4" flat lower the musical note by half a step. While "#1~#4" sharp increase the musical note by half a step. And natural sign "♮" is used to cancel a flat or sharp from a preceding note.

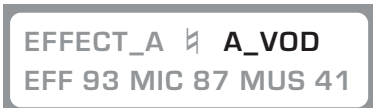


Press the **b** key to change the flat musical note from b1~b4.
Press the **♮** key to change the musical note to natural tone.
Press the **#** key to change the sharp musical note from #1~#4.

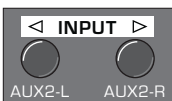
C. The third parameter on LINE 1 of the LCD main screen is the active input source selection (VOD, DVD, KOD, and BGM). The letter "M_" before the source stands for manual mode, while "A_" stands for auto mode. Under automatic selection mode, the order is VOD>DVD>KOD>BGM; Under signal selection mode, if there is no signal input for five seconds, the system will be switched to BGM channel.



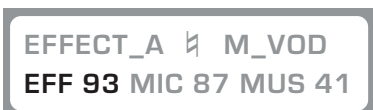
← Manual Mode



← Auto Mode

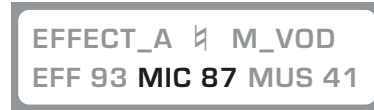


D. The first parameter on LINE 2 of the LCD main screen is the effect master volume. The microphone effects volume can be controlled from 0 to 99.



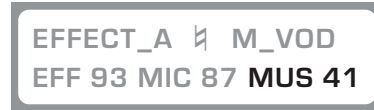
← Effect Level

E. The second parameter on LINE 2 of the LCD main screen is the microphone master volume. This increases the microphone volume until the maximum programmed volume limiter is reached.



← Microphone Level

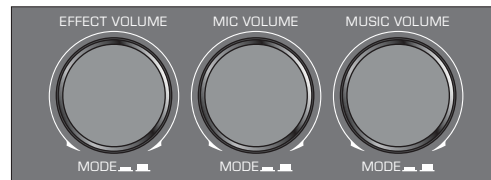
F. The third parameter on LINE 2 of the LCD main screen is the music master volume. This increases the music volume until the maximum programmed volume limiter is reached.



← Music Level

MODE ADJUSTABLE (EFFECT, MIC & MUSIC)

There are three different modes: EFFECT, MIC (Microphone), and MUSIC MODE. To select the mode you want to adjust, press the EFFECT, MIC, or MUSIC VOLUME knob.



RETURN TO THE MAIN SCREEN: When you're in EFFECT MODE and you want to return to the MAIN SCREEN, press either MIC or MUSIC MODE knob **ONCE**.

GO TO DIFFERENT MODES: When you're in EFFECT MODE and you want to go to different modes, press either MIC or MUSIC MODE knob **TWICE**.

HOW TO ADJUST EFFECT/MIC/MUSIC MODE:

For example, when the EFFECT VOLUME knob is pressed, this setting is shown:



To get to the next available setting, turn the knob clockwise; to get back to the previous setting, turn counterclockwise.

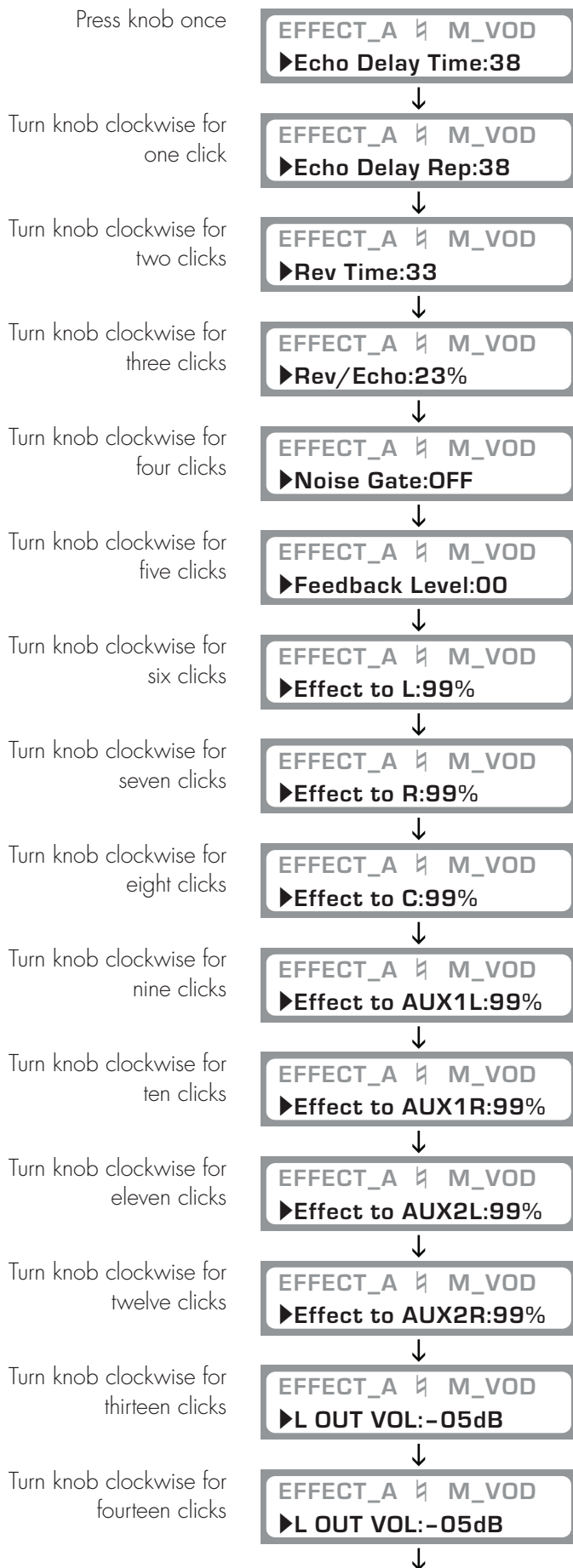
To adjust the value of the current setting, press the knob again. When the knob is pressed, this will show:



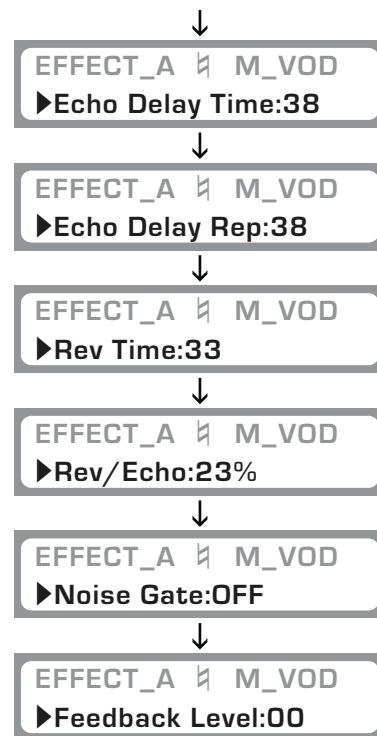
NOTE Notice how the arrow switched places. Now, turn the knob to adjust value.

EFFECT MODE

Below is an outline of its adjustable modes



Turn knob clockwise for fifteen click



Adjusting Effect Mode

1. Press the EFFECT VOLUME knob for the first time, the LCD Window would appear as follows:



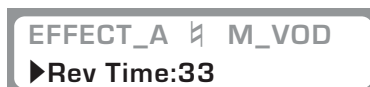
To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the Echo Delay Time. Range: 00 to 99.

2. Turn the knob clockwise for one click, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the Echo Delay Repeat. Range: 00 to 99.

3. Turn the knob clockwise for two clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the Reverb Time. Range: 00 to 99.

4. Turn the knob clockwise for three clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect proportion of the reverb. Range: 00% to 99%. The greater the percentage is, the greater the reverb proportion.

5. Turn the knob clockwise for four clicks, the LCD Window would appear as follows:



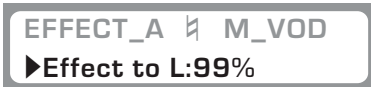
To adjust the setting, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to select ON or OFF.

6. Turn the knob clockwise for five clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the Feedback Level. Range: 00 to 05. It indicates feedback control. The greater the number is, the stronger the feedback controls.

7. Turn the knob clockwise for six clicks, the LCD Window would appear as follows:



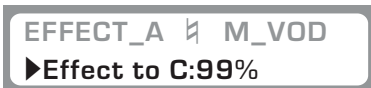
To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the left channel. Range: 00 to 99%.

8. Turn the knob clockwise for seven clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the right channel. Range: 00 to 99%.

9. Turn the knob clockwise for eight clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the center channel. Range: 00 to 99%.

10. Turn the knob clockwise for nine clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the AUX1 left channel. Range: 00 to 99%.

11. Turn the knob clockwise for ten clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the AUX1 right channel. Range: 00 to 99%.

12. Turn the knob clockwise for eleven clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the AUX2 left channel. Range: 00 to 99%.

13. Turn the knob clockwise for twelve clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the effect output to the AUX2 right channel. Range: 00 to 99%.

14. Turn the knob clockwise for thirteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the left channel output volume. Range: -80dB to 00dB.

15. Turn the knob clockwise for fourteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the right channel output volume. Range: -80dB to 00dB.

16. Turn the knob clockwise for fifteen clicks, the LCD Window would appear as follows:



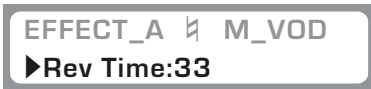
To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the center channel output volume. Range: -80dB to 00dB.

17. Turn the knob clockwise for sixteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the sub channel output volume. Range: -80dB to 00dB.

18. Turn the knob clockwise for seventeen clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the AUX1 left channel output volume. Range: -80dB to 00dB.

19. Turn the knob clockwise for eighteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the AUX1 right channel output volume. Range: -80dB to 00dB.

20. Turn the knob clockwise for nineteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the AUX2 left channel output volume. Range: -80dB to 00dB.

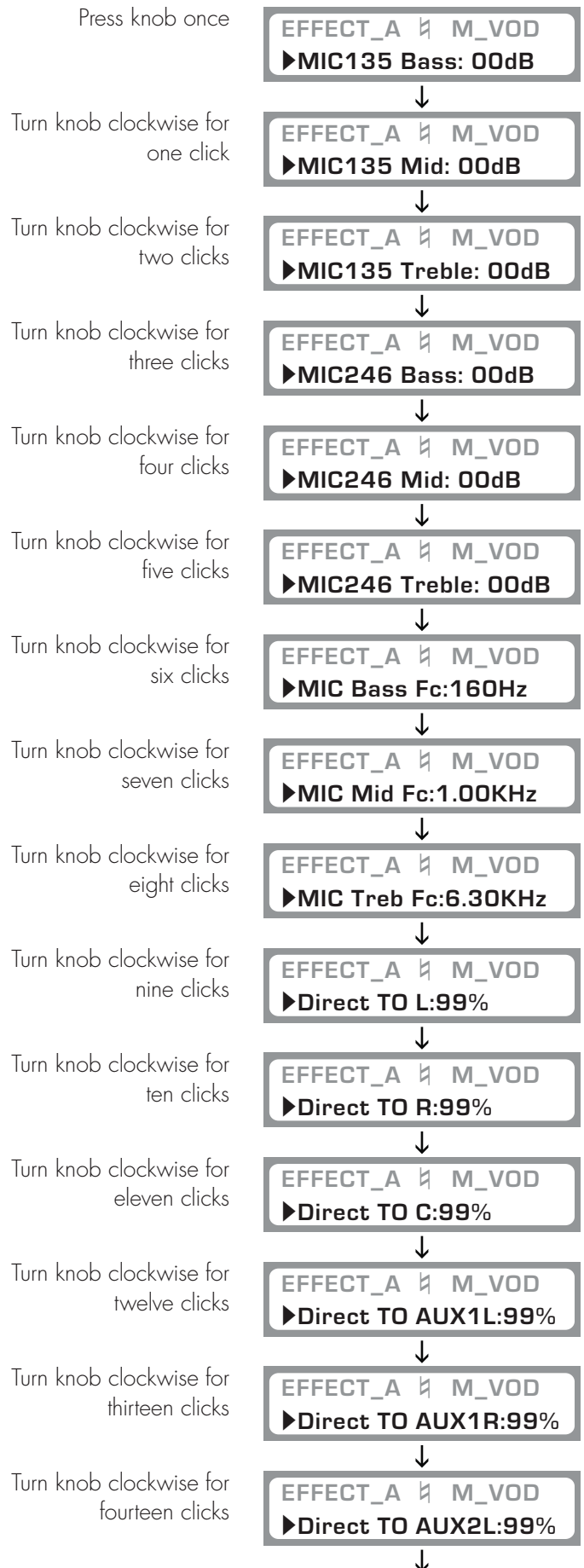
21. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:

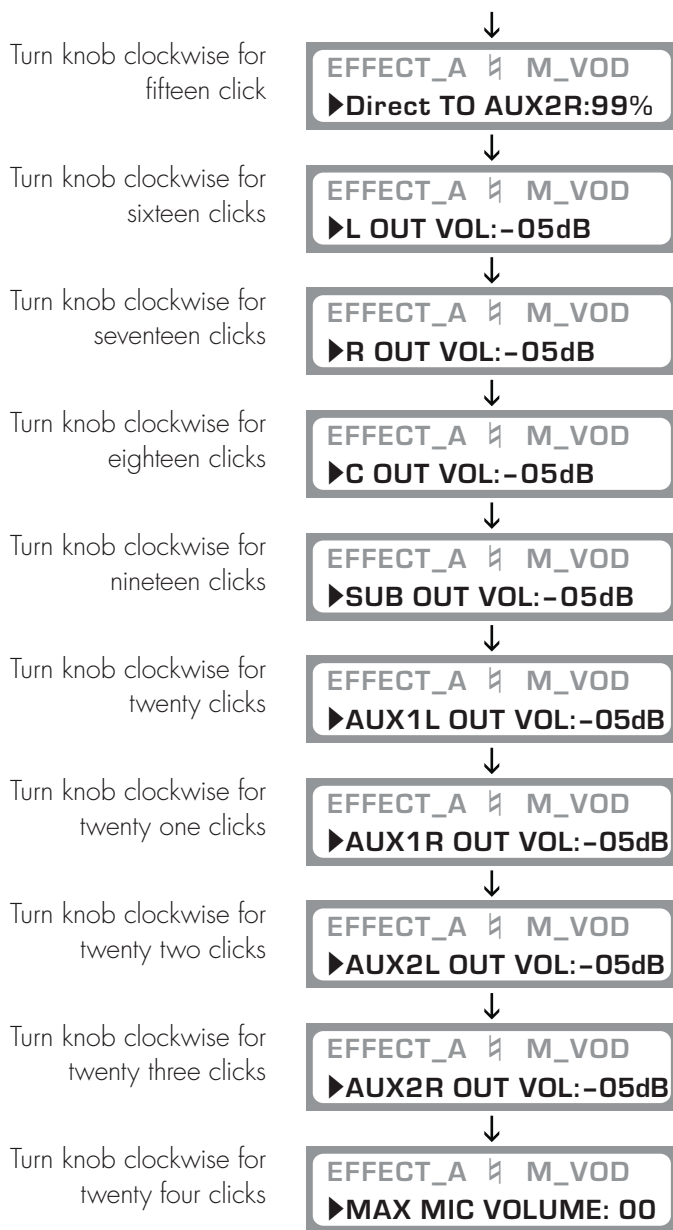


To adjust the value, first press the EFFECT VOLUME knob to move the arrow, and then turn the knob to adjust the AUX2 right channel volume. Range: -80dB to 00dB.

MIC MODE

Below is an outline of its adjustable modes





Adjusting Mic Mode

1. Press the MIC VOLUME knob for the first time, the LCD Window would appear as follows

EFFECT_A **M_VOD**
▶**MIC135 Bass: 00dB**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Bass of the first group. Range: -12dB to 12dB.

2. Turn the knob clockwise for one click, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC135 Mid: 00dB**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Midrange of the first group. Range: -12dB to 12dB.

3. Turn the knob clockwise for two clicks, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC135 Treble: 00dB**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Tremble of the first group. Range: -12dB to 12dB.

4. Turn the knob clockwise for three clicks, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC246 Bass: 00dB**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Bass of the second group. Range: -12dB to 12dB.

5. Turn the knob clockwise for four clicks, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC246 Mid: 00dB**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Midrange of the first group. Range: -12dB to 12dB.

6. Turn the knob clockwise for five clicks, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC246 Treble: 00dB**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Treble of the second group. Range: -12dB to 12dB.

7. Turn the knob clockwise for six clicks, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC Bass Fc:160Hz**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Bass Frequency. Range: 50.0Hz to 315Hz. The higher the frequency is, the higher the pitch.

8. Turn the knob clockwise for seven clicks, the LCD Window would appear as follows:

EFFECT_A **M_VOD**
▶**MIC Mid Fc:1.00KHz**

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Midrange Frequency. Range: 315Hz to 3.15KHz. The higher the frequency is, the higher the pitch.

9. Turn the knob clockwise for eight clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Treble Frequency. Range: 3.15KHz to 10.0KHz. The higher the frequency is, the higher the pitch.

10. Turn the knob clockwise for nine clicks, the LCD Window would appear as follows:



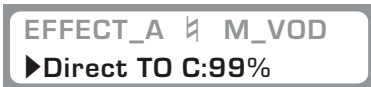
To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the left channel. Range: 00% to 99%.

11. Turn the knob clockwise for ten clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the right channel. Range: 00% to 99%.

12. Turn the knob clockwise for eleven clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the center channel. Range: 00% to 99%.

13. Turn the knob clockwise for twelve clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the AUX1 left channel. Range: 00% to 99%.

14. Turn the knob clockwise for thirteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the AUX1 right channel. Range: 00% to 99%.

15. Turn the knob clockwise for fourteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the AUX2 left channel. Range: 00% to 99%.

16. Turn the knob clockwise for fifteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the microphone direct volume to the AUX2 right channel. Range: 00% to 99%.

17. Turn the knob clockwise for sixteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the left channel output volume. Range: -80dB to 00dB.

18. Turn the knob clockwise for seventeen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the right channel output volume. Range: -80dB to 00dB.

19. Turn the knob clockwise for eighteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the center channel output volume. Range: -80dB to 00dB.

20. Turn the knob clockwise for nineteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the sub channel output volume. Range: -80dB to 00dB.

21. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶AUX1L OUT VOL:-05dB

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX1 left channel output volume. Range: -80dB to 00dB.

22. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶AUX1R OUT VOL:-05dB

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX1 right channel output volume. Range: -80dB to 00dB.

23. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶AUX2L OUT VOL:-05dB

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX2 left channel output volume. Range: -80dB to 00dB.

24. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶AUX2R OUT VOL:-05dB

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX2 right channel output volume. Range: -80dB to 00dB.

25. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MAX MIC VOLUME: 00

To adjust the value, first press the MIC VOLUME knob to move the arrow, and then turn the knob to adjust the Maximum Microphone Volume. Range: -24 to 00. This sets a maximum limit on the microphone volume on the system, safeguarding damages to the equipment because of excess overloading/overdriving.

MUSIC MODE

Below is an outline of its adjustable modes

Press knob once

EFFECT_A  **M_VOD**
▶Vocal Cancel:00



Turn knob clockwise for one click

EFFECT_A  **M_VOD**
▶MUSIC BASS: 00dB



Turn knob clockwise for two clicks

EFFECT_A  **M_VOD**
▶MUSIC MID: 00dB



Turn knob clockwise for three clicks

EFFECT_A  **M_VOD**
▶MUSIC TREBLE: 00dB



Turn knob clockwise for four clicks

EFFECT_A  **M_VOD**
▶MUS BASS Fc:100Hz



Turn knob clockwise for five clicks

EFFECT_A  **M_VOD**
▶MUS MID Fc:1.00KHz



Turn knob clockwise for six clicks

EFFECT_A  **M_VOD**
▶MUS TREB Fc:6.30KHz



Turn knob clockwise for seven clicks

EFFECT_A  **M_VOD**
▶SUB Decay:OFF



Turn knob clockwise for eight clicks

EFFECT_A  **M_VOD**
▶SUB LPF:125Hz



Turn knob clockwise for nine clicks

EFFECT_A  **M_VOD**
▶SUB HPF:OFF



Turn knob clockwise for ten clicks

EFFECT_A  **M_VOD**
▶Sub Phase:Normal



Turn knob clockwise for eleven clicks

EFFECT_A  **M_VOD**
▶MUSIC TO L:99%



Turn knob clockwise for twelve clicks

EFFECT_A  **M_VOD**
▶MUSIC TO R:99%



Turn knob clockwise for thirteen clicks

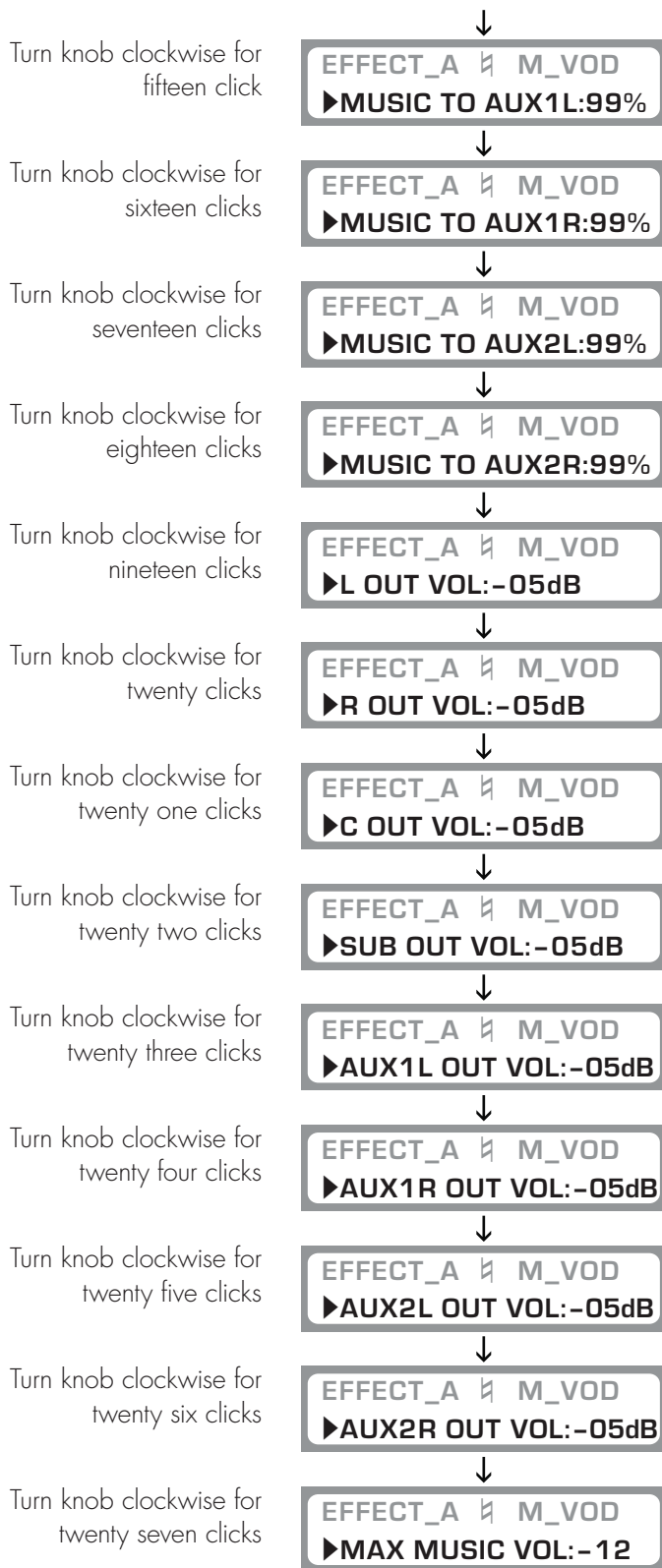
EFFECT_A  **M_VOD**
▶MUSIC TO C:00%



Turn knob clockwise for fourteen clicks

EFFECT_A  **M_VOD**
▶MUSIC TO SUB:50%





Adjusting Music Mode

1. Press the MUSIC VOLUME knob for the first time, the LCD Window would appear as follows:



To adjust the setting, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Music Vocal Cancel. Range: 00 (Off), 01 (Left Channel), 02 (Right Channel), and 03 (Left and Right Channels).

2. Turn the knob clockwise for one click, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Music Bass. Range: -12dB to 12dB.

3. Turn the knob clockwise for two clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Music Midrange. Range: -12dB to 12dB.

4. Turn the knob clockwise for three clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Music Treble. Range: -12dB to 12dB.

5. Turn the knob clockwise for four clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Music Bass Frequency. Range: 50.0Hz to 315Hz. The higher the frequency is, the higher the pitch.

6. Turn the knob clockwise for five clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MUS MID Fc:1.00KHz

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Music Midrange Frequency. Range: 315Hz to 3.15KHz. The higher the frequency is, the higher the pitch.

7. Turn the knob clockwise for six clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MUS TREB Fc:6.30KHz

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Microphone Bass Frequency. Range: 3.15KHz to 10.0KHz. The higher the frequency is, the higher the pitch.

8. Turn the knob clockwise for seven clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶SUB Decay:OFF

To adjust the setting, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Sub Channel Decay. Range: OFF, 01dB to 08dB, and MUTE.

9. Turn the knob clockwise for eight clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶SUB LPF:125Hz

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Subwoofer Low Pass Filter. Range: 80Hz to 335Hz. The Subwoofer LPF allows tuning of the subwoofer by increasing or decreasing the cutoff frequency. The lower the frequency is, the lower the bass.

10. Turn the knob clockwise for nine clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶SUB HPF:OFF

To adjust the setting, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Subwoofer High Pass Filter. Range: OFF, 20Hz to 80Hz. The

Subwoofer HPF allows tuning of the subwoofer by increasing or decreasing the cutoff frequency. The higher the frequency is, the higher the pitch. In addition, the filter can also be turned off by selecting "OFF."

11. Turn the knob clockwise for ten clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶Sub Phase:Normal

To adjust the setting, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the low phase reversal switch. Range: Reverse, Normal

12. Turn the knob clockwise for eleven clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MUSIC TO L:99%

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the left channel. Range: 00% to 99%.

13. Turn the knob clockwise for twelve clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MUSIC TO R:99%

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the right channel. Range: 00% to 99%.

14. Turn the knob clockwise for thirteen clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MUSIC TO C:00%

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the center channel. Range: 00% to 99%.

15. Turn the knob clockwise for fourteen clicks, the LCD Window would appear as follows:

EFFECT_A  **M_VOD**
▶MUSIC TO SUB:50%

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the sub channel. Range: 00% to 99%.

16. Turn the knob clockwise for fifteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the AUX1 left channel. Range: 00% to 99%.

17. Turn the knob clockwise for sixteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the AUX1 right channel. Range: 00% to 99%.

18. Turn the knob clockwise for seventeen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the AUX2 left channel. Range: 00% to 99%.

19. Turn the knob clockwise for eighteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the music volume to the AUX2 right channel. Range: 00% to 99%.

20. Turn the knob clockwise for nineteen clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the left channel output volume. Range: -80dB to 00dB.

21. Turn the knob clockwise for twenty clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the right channel output volume. Range: -80dB to 00dB.

22. Turn the knob clockwise for twenty one clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the center channel output volume. Range: -80dB to 00dB.

23. Turn the knob clockwise for twenty two clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the sub channel output volume. Range: -80dB to 00dB.

24. Turn the knob clockwise for twenty three clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX1 left channel output volume. Range: -80dB to 00dB.

25. Turn the knob clockwise for twenty four clicks, the LCD Window would appear as follows:



To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX1 right channel output volume. Range: -80dB to 00dB.

26. Turn the knob clockwise for twenty five clicks, the LCD Window would appear as follows:

EFFECT_A  M_VOD
▶AUX2L OUT VOL: -05dB

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX2 left channel output volume. Range: -80dB to 00dB.

27. Turn the knob clockwise for twenty six clicks, the LCD Window would appear as follows:

EFFECT_A  M_VOD
▶AUX2R OUT VOL: -05dB

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the AUX2 right channel output volume. Range: -80dB to 00dB.

28. Turn the knob clockwise for twenty seven clicks, the LCD Window would appear as follows:

EFFECT_A  M_VOD
▶MAX MUSIC VOL: -12

To adjust the value, first press the MUSIC VOLUME knob to move the arrow, and then turn the knob to adjust the Maximum Music Volume. Range: -24 to 00. This sets a maximum limit on the music volume on the system, safeguarding damages to the equipment because of excess overloading/overdriving.

EXTRA FUNCTIONS

Save Settings

The "Save all" function allows the owner to save all the changes made in the settings.

EFFECT_A  M_VOD
Save all? N/Y

Under any settings, press and hold one of the master volume control buttons for 2 seconds, and when the above LCD screen shows, release the button. Turn the same button to choose "Y" or "N" to decide whether to save or not. Then press the same button to confirm.

System Lock

The "System Lock" function allows the owner to lock all the settings except for settings you find on the LCD Main Screen.

EFFECT_A  M_VOD
System Lock? N/Y

Under any settings, press and hold one of the master volume control buttons for 4 seconds, and when the above LCD screen shows, release the button. Turn the same button to choose "Y" or "N" to decide whether to lock or not. Then press the same button to confirm. When the system is locked, you will notice the "C" at the top right hand corner on the LCD Main Screen:

EFFECT_A  M_VOD 
EFF 32 MIC 12 MUS 24

When the system is locked, users cannot enter into the three adjustable modes (EFFECT, MIC, and MUSIC MODES).

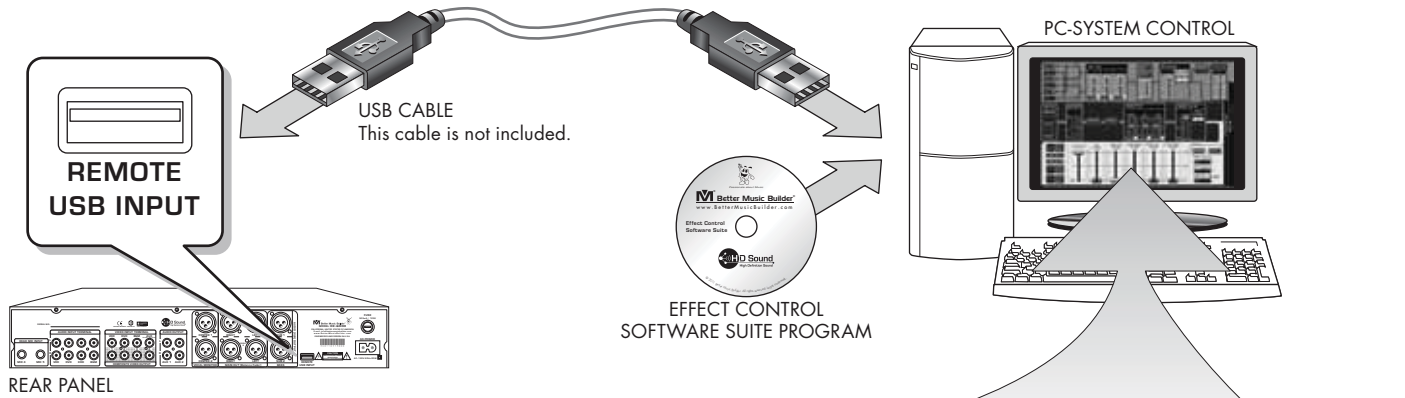


PROFESSIONAL/COMMERCIAL USE

The mixer DX-6000 was designed with professional karaoke usage in mind. To give users more control over their mixer, the team at Better Music Builder® has created the "Effect Control Software Suite." The software allows users from one room to have the capability to access and control all the desired effect of the mixer located in another room. That means while all the songs and equipments are stored inside the equipment room, the user can use the computer in the KTV room to control all the sound effects.

EFFECT CONTROL SOFTWARE SUITE INSTRUCTIONS

For Professional/Commercial use of the Better Music Builder® Effect Control Software Suite, connect the Serial S connector on the provided remote USB input to the control terminal in the rear of the DX-6000 and connect the USB connector end to the computer (PC) with Better Music Builder's Effect Control Software Suite installed.



MIC 1, MIC 2, MIC 3, MIC 4, MIC 5, MIC 6

MIC TONE: TREBLE, MID, BASS

NOISE GATE, EXCITER, FEEDBACK

MIC VOLUME: VOLUME, MAX VOLUME

ECHO/REV, EFFECT VOLUME

INPUT SEL: AUTO, VOD, DVD, VCD, BGM

MUSIC INPUT: VOICE CANCEL, PITCH

MUSIC TONE: TREBLE, MID, BASS

MUSIC VOLUME: VOLUME, MAX VOLUME

OUTPUT VOL, MIC VOLUME, MUSIC LEFT VOLUME, MUSIC RIGHT VOLUME, EFFECT LEFT VOLUME, EFFECT RIGHT VOLUME

PHASE: NORMAL, REVERSE

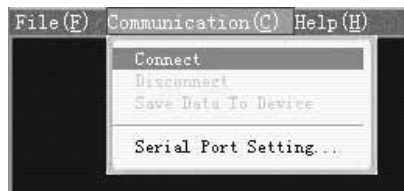
HPF Frequency: OFF

LPF Frequency: 80.0 Hz

SUB Decay (MIC ON): OFF

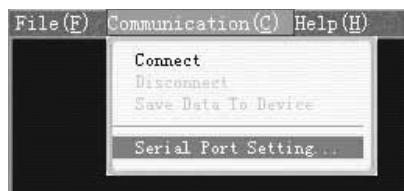
Mic Direct Sound, Mic Effect

Once the cable is connected, launch the program Karaoke Pre-amplifier Controller v2.6 from the "Effect Control Software Suite" CD.



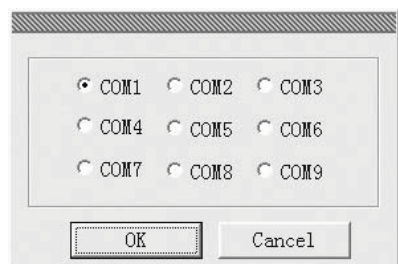
In the program, under the Communication tab, there is a drop down list, select Connect.

Fig 1. Connecting Serial Port



If for some reason, there was a COM port error, then under the Communication tab, select Serial Port Setting.

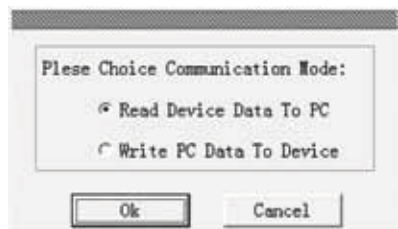
Fig 2. Setting Serial Port



Select the available Serial Comport (COM) below and click OK to confirm.

Fig 3. Available COM Ports

Once connection has been established, it will prompt either to "Read Data From Device" or "Write Data To Device." We suggest starting off by reading the current settings on the



system as a reference and then further make adjustments accordingly. Choose "Read Data From Device." Then click OK to confirm.

Fig 4. Read Data From Device

After the DX-6000 settings have been read, different parameters can be set. Different controls will be highlighted based on the specific settings. Otherwise, the control will be grayed-out and not adjustable.

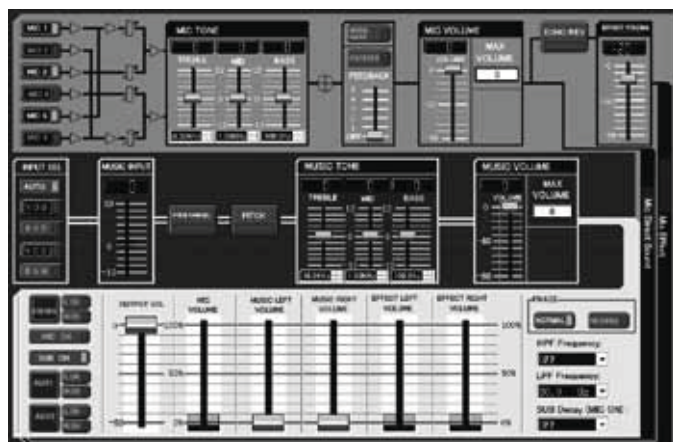


Fig 5. Control Panel Settings

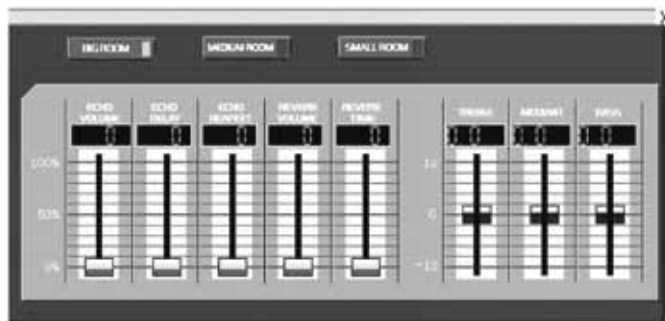


Fig 6. Echo/Reverb Effect Control Settings

The parameters adjusted can be saved to a program file (.kcc) for future uses or saved directly to the connected DX-6000.

Save to program file (.kcc)



Fig 7. Save Program File



Fig 8. Save (.kcc) File

Save directly to device



Fig 9. Saving Data Directly to Device

After all parameters are set and done, disconnect out of the program as follow:



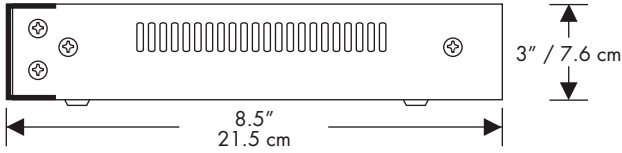
Fig 10. Disconnecting COM Port



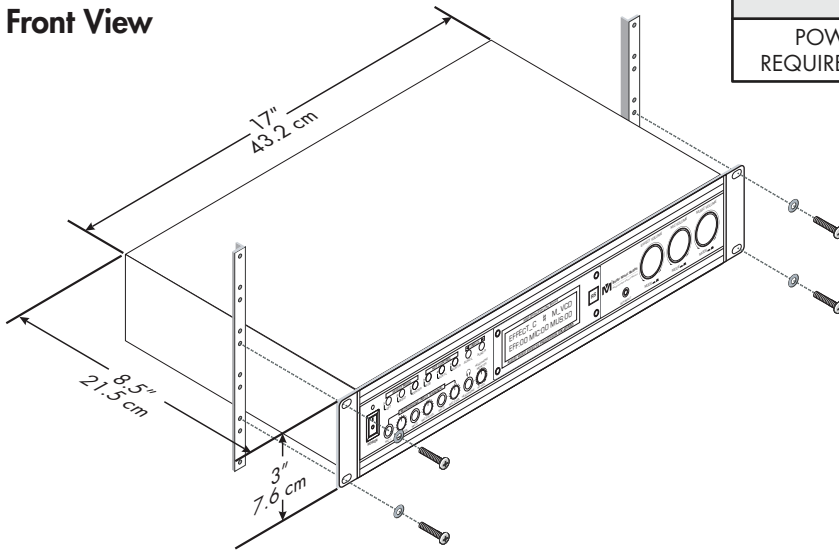
PHYSICAL DIMENSIONS

NET WEIGHT	6 lbs / 2.7 Kg
SHIPPING WEIGHT	9.7 lbs / 4.4 Kg
DIMENSIONS (WxHxD)	17x3x8.5 in / 43.2x7.6x21.5 cm
PACKING DIMENSIONS (WxHxD)	18.9x3.5x10.6 in / 48x8.6x27 cm

Side View



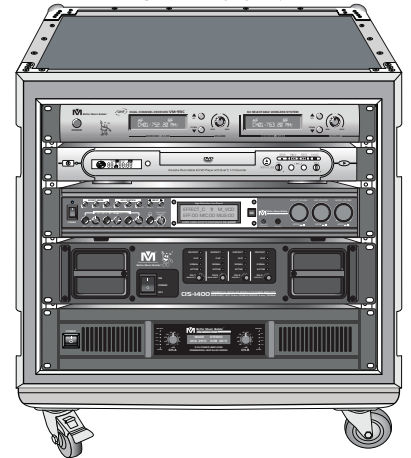
Front View



SPECIFICATIONS

	MIC PART	MUSIC PART
INPUT IMPEDANCE	1k Ω	10k Ω
SENSITIVITY	20mVrms	200mVrms
OVERLOAD ELECTRICAL POWER	200mVrms	2Vrms
TONE ELECTRICAL CIRCUIT	LF:160Hz@ \pm 12dB MF:1kHz@ \pm 12dB HF: 6.3kHz@ \pm 12dB	LF:100Hz@ \pm 12dB MF:1kHz@ \pm 12dB HF: 10kHz@ \pm 12dB
FREQUENCY RESPONSE	80Hz-16kHz 0.5dB/3dB	20Hz-20kHz \pm 1.0dB
THD	<0.01%@1kHz	<0.008%@1kHz
LEVEL	3Vrms@1kHz	3Vrms@1kHz
S/N RATIO	>81dB	>92dB
EFFECT	Mix/REV/Echo/ REV+Echo	\pm 4 class, 1/2 musical scale/class
POWER REQUIREMENT	~110V/~220V, 50Hz/60Hz	Power consumption<20W

PORTABLE SYSTEM



Optional for 19" rack mount kit

The standard kit is optional. Please make sure that you get the right kit for the size you want. Then, you can put the processor into the rack. The rack is used to protect the processor. If you have such portable equipment, you can have party at home anytime or use it for Karaoke rental business.

The Bracket in figure 1 is used to hold your audio/video equipment firmly in place, but not for transportation. If you need to transport the equipment, we recommend you using the heavy duty clamping rack shelf (optional) as illustrated in figure 2. You should place the heavy duty clamping rack shelf into the portable case. This would protect your equipment. There are different sizes of the heavy duty clamping rack shelves to suit your specific needs. Please note that the bracket, rack shelf and case are not included in the package. They are optional items and sold separately.

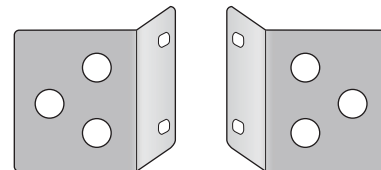
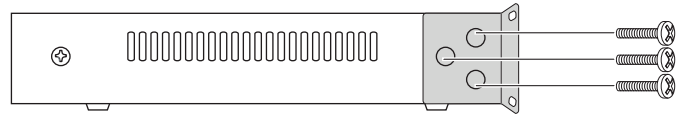


FIGURE 1
PROCESSOR FRONT BRACKET FOR 19" RACK

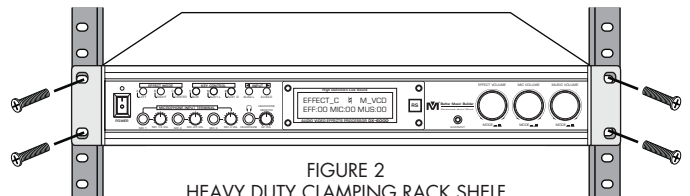


FIGURE 2
HEAVY DUTY CLAMPING RACK SHELF



TROUBLESHOOTING

1. MODE ADJUSTMENTS IS FROZEN

Symptom: mode adjustments is frozen for EFFECT, MIC or MUSIC.

Probable cause: "SYSTEM LOCK" is on. When the system is locked, users cannot enter into the three adjustable modes (EFFECT, MIC, and MUSIC MODES). You will notice the "□" at the top right hand corner on the LCD Main Screen.

Remedy: to turn off system lock press and hold one of the master volume control buttons for 4 seconds, and when the above LCD screen shows, release the button. Turn the same button to choose "N" to unlock. Then press the same button to confirm.



2. NO SOUND OUTPUT

Symptom: no sound output.

Probable cause: the volume of the output channels is set too low, or the music source input is selected incorrectly.

Remedy: check whether the volume of the output channels is set too low, or that the music source input is selected correctly. If there is no output for the woofer channel or the output is small, please check whether the SUB LPF is set too high or the SUB HPF is set too low.

3. MUSIC VOLUME IS TOO LOW

Symptom: the music volume is too low.

Probable cause: the music volume limiter is set too low.

Remedy: adjust to a higher "Max Music Volume."



Maximum Music Volume. Range: -24 to 00.

4. MICROPHONE VOLUME IS TOO LOW

Symptom: the microphone volume is too low.

Probable cause: the microphone volume limiter is set too low.

Remedy: adjust to a higher "Max Microphone Volume."



Maximum Microphone Volume. Range: -24 to 00.

5. NO SOUND FROM MICROPHONE

Probable cause: the microphone cable is not connected, and microphone volume or microphone is not turn on.

Remedy:

- Make sure the microphone cable is connected properly.
- Check to see if the microphone and/or the receiver are turned on.
- Check the microphone volume.

6. NO POWER

Symptom: the machine has no power.

Remedy: check to see if the power cable is well connected and that the power switch on the front panel is turned on.

7. BAD AUDIO OR MICROPHONE SOUNDS

Remedy:

- Check the source of your audio (CD, DVD) to see if it's scratched.
- Check your audio cables or microphone cables.
- Use a better audio cable or 3pin XLR mic cable.

8. NO PICTURE

Remedy:

- Check to see if video sources are selected accordingly.
- Check to see if the video cables are plugged in correctly.

9. VIDEO PROBLEM

Symptoms: the video display appears in black and white color only or it has unstable image.

Possible Causes:

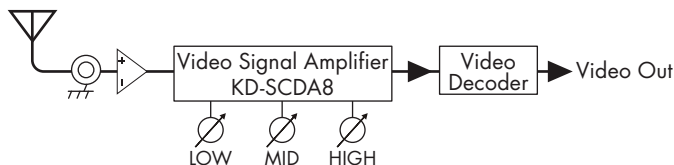
1. Video source (i.e. DVD player) is in different formats like NTSC or PAL. Therefore, you should select the right "Video Format" in the "Output" of the DVD player. It is because the video display is incompatible with the video source.



FINAL WORDS TO USER

2. The video out from the amplifier to the video display has a distance over 25 feet. Therefore, you need to add an additional signal distribution amplifier to further enhance the signals for longer destinations.

VIDEO BLOCK DIAGRAM



3. You may be using the wrong cable for connection. The cable for video signal is different from the cable for audio, microphone and speaker. Therefore, you should use coaxial cable for connection.

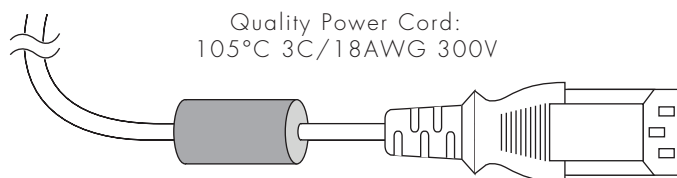
4. You may be using a low quality cable with poor connection. We highly recommend you using high quality audio/video cable for connection.

10. PROTECTION FOR AUDIO/VIDEO EQUIPMENT

Before you hook up or disconnect any audio/video equipment, you must turn off the power for all equipments. Otherwise, it may cause black spots to appear on the LCD or Plasma TV screen.

11. NOISE AND DISTORTION

When humming noise or displeasing sound appears, you can replace the supplied power cord with an AC power cord with a magnetic device as shown in the figure below.

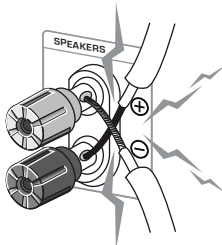


12. SOUND PROBLEM

Symptom: no sound.

Possible Cause:

1. Speaker wires positive and negative touch each other at the terminals. We recommend you using the double banana plug.
2. "Mute" is accidentally turn on from the remote.
3. "MUSIC GAIN" is on with music volume limit adjusted too low.



The engineering team of Better Music Builder® has many years of experience in audio equipment design. The team constantly develops new audio technologies, designs innovative audio and Karaoke equipment to suit your specific needs and provides you great ideas for home entertainment.

Our engineering team also designs audio equipment for commercial use by restaurants, coffee shops, churches, and school auditoriums, etc. If the commercial area for audio equipment installation exceeds 2,000 square feet, we highly recommend you to hire audio professionals to handle the installation in order to avoid risks in breaking the equipment with improper installation and safety protection purposes.

We also provide educational and technical information on audio equipment and technologies. For example, we provide free installation diagrams to make it easier to connect the system. In addition, to get best connections for the sharpest image and sound quality, we provide hot tip for choosing the high quality type of A/V cable connections. Free information on audio equipment and technologies available for download from our website, www.BetterMusicBuilder.com.

Please do not remove the "Yellow Label" in the rear of the machine; otherwise, the warranty will be void automatically. We design it to protect your own safety. If repair and maintenance service is needed, please contact us directly or hire a professional technician. To learn more about the technical aspects, visit our website www.BetterMusicBuilder.com and download the relevant information for review.



Before hooking up the system, turn off the AC powers on all machines including audio/video equipment and TV. Otherwise, it may damage the equipment, especially on the HDTV in which a spot might appeared on the TV screen. After hooking up the system, double check the audio/video connections to ensure that they are connected correctly.

NOTE Sometimes, loose or poor cable quality would affect the microphone effects, picture quality, or even cause the machine to shut down suddenly.

Again, we must thank you for choosing Better Music Builder product. We hope you can make the best use of the machine and enjoy it for years to come. If you have any questions regarding our product, please feel free to contact us at www.BetterMusicBuilder.com.



WARRANTY

ONE-YEAR LIMITED WARRANTY FOR HOME USE EQUIPMENT

Our one-year warranty covers both parts and labors. The warranty becomes effective from the date of your purchase for one year.

Our warranty only covers defects due to product defectiveness with free of defects in materials or workmanship. However, our warranty does not cover defects due to normal wears, damage in transit, improper use, abuse or failure to follow the proper instructions for maintenance. This warranty is void in the event of unauthorized repairs, alternations, modifications and removing of the product label.

Please also note that our warranty does not cover any shipping cost for the return of defective products to us for inspection, repair and maintenance. Our warranty for Better Music Builder products can only be executed in North America.

90-DAY LIMITED WARRANTY FOR PUBLIC AND COMMERCIAL USE EQUIPMENT

Our 90-day warranty applies to speakers, amplifiers, mixers and microphones for both public and commercial use such as restaurant, coffee shop, KTV nightclub, church and school, etc. It covers both parts and labors. The warranty becomes effective from the date of your purchase for 90 days.

Our warranty only covers defects due to product defectiveness with free of defects in materials or workmanship. However, our warranty does not cover defects due to normal wears, damage in transit, improper use, abuse or failure to follow the proper instructions for maintenance. This warranty is void in the event of unauthorized repairs, alternations, modifications and removing of the product label.

Please also note that our warranty does not cover any shipping cost for the return of defective products to us for inspection, repair and maintenance. Our warranty for Better Music Builder products can only be executed in North America.

ADDITIONAL NOTES:

1. Limited warranty for home use equipment is only valid in North America.
2. Limited warranty is valid only if you purchase our products from our authorized dealers (including both regular retailers and online retailers) in North America. If you choose to purchase our products from an authorized dealer, we will not provide any limited product warranty for you. To protect your limited product warranty, please purchase our products from one of our authorized dealers in North America near you.
3. Limited warranty is automatically void if the yellow label stating "No Warranty After Opening" is removed from the product.

TO REGISTER YOUR WARRANTY

Please fill out the warranty card that came with your unit, download or submit online warranty form. However, we need the invoice for your purchase in order to process this warranty. You may also register your warranty online. Please visit our website at www.bettermusicbuilder.com.



AGENCY REGULATORY NOTICES

Federal Communications Commission Notice

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 the 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 or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not approved may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC rules and regulations.

Materials Disposal

Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (EIA) (<http://www.eiae.org>).

Disposal Of Waste Equipment By Users In Private Households In The European Union

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of

your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Japanese Notice

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取扱説明書に従って正しい取り扱いをして下さい。

Japanese Power Cord Notice

製品には、同梱された電源コードをお使い下さい。同梱された電源コードは、他の製品では使用出来ません。

Japanese Material Content Declaration

A Japanese regulatory requirement, defined by Specification JIS-C-0950, 2005, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006.

Korean Notice

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Recycling Program

The terms and availability of these programs vary by geography because of differences in regulatory requirements and local customer demand.

因为在当地的监管要求和客户的需求, 这些条件和程序的情况不同。



Passionate about Music
www.BetterMusicBuilder.com

Thank you for purchasing this unit. To make full and effective use of this unit, please read this Owner's Manual carefully before operating it. Please retain this manual for future reference.

