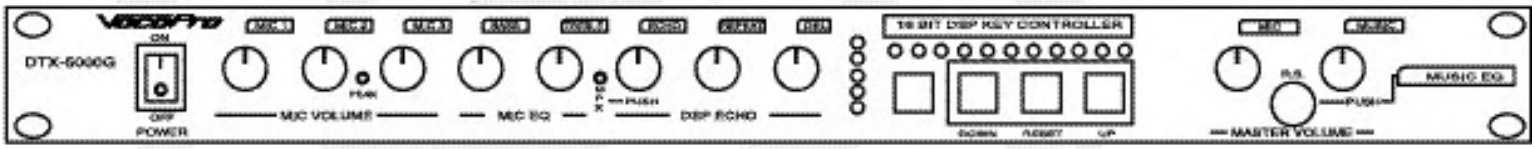
VocoPro DTX-5000G

Professional Digital Karaoke Mixer/CD+G Decoder/Pre-Amp



DTX-5000G FEATURES:

- CDG+Decoder/Pre-Amp
- 11-Step 32-Bit DSP Key Controller
- 3-Microphone Channels w/XLR and 1/4" Input Jacks
- Professional Digital Echo/Repeat/Delay
- Vocal Eliminator Eliminates or Reduces the Vocals on any CD
- Variable Outputs (Allows Direct Connection to Amp)
- Full-function Remote Control to Operate all Features
- On-Screen Display shows all Remote-Control settings
- 3-Audio/Video Inputs
- 2-Switchable Digital Inputs w/Optical and Coaxial Jacks
- NTSC/PAL for both U.S. and European TVs
- Dimensions : 19-1/4" (L) x 10-1/5" (D) x 5" (H)

Owner's Manual

V. 1

VocoPro

ULTIMATE CHOICE OF KARAOKE ENTERTAINMENT

SAFETY INSTRUCTIONS

CAUTION

OF ELECTRIC SH
DO NOT OPEN

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.

• Explanation of Graphical Symbols

The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

WARNING
To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

1. **Read Instructions -** All the safety and operating instructions should be read before the appliance is operated.

2. **Retain Instructions -** The safety and operating instructions should be retained for future reference.

3. **Heed Warnings -** All warnings on the appliance and in the operating instructions should be adhered to.

4. **Follow Instructions -** All operating and use instructions should be followed.

5. **Attachments -** Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6. **Water and Moisture -** Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7. **Carts and Stands -** The appliance should be used only with a cart or stand that is recommended by the manufacturer.

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

8. **Ventilation -** The appliance should be situated so its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation slots.

9. **Heat -** The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. **Power Sources -** The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. **Grounding or Polarization –** Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. **Power-Cord Protection –** Power-supply cords should be routed so that they are 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 appliance.

13. **Cleaning –** Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. **Power lines –** An outdoor antenna should be located away from power lines.

15. **Nonuse Periods –** The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. **Object and Liquid Entry –** Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17. **Damage Requiring Service –** The appliance should be serviced by qualified service personnel when:

A. The power supply cord or plug has been damaged; or
B. Objects have fallen into the appliance; or
C. The appliance has been exposed to rain; or
D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
E. The appliance has been dropped, or the enclosure damaged.

18. **Servicing –** The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note:
To CATV system installer's (U.S.A.): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

SAFETY INSTRUCTIONS

FCC INFORMATION (U.S.A.)

1. **IMPORTANT NOTICE:** DO NOT MODIFY THIS UNIT! This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Vocopro may void your authority, granted by the FCC, to use this product.

2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use product in the U.S.A.

3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurances that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the owner's manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "Off" and "On", please try to eliminate the problem by using one of the following measures:

   Relocate either this product or the device that is being affected by the interference.

   Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

   In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300-ohm ribbon lead, change the lead-in to coaxial type cable.

   If these corrective measures do not produce satis factory results, please contact your local retailer authorized to distribute Vocopro products. If you can not locate the appropriate retailer, please contact Vocopro, 1728 Curtiss Court, La Verne, CA 91750.

CAUTION
The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet, even if the apparatus itself is turned off. To fully insure that the apparatus is indeed fully void if residual power, leave unit disconnected from the AC outlet for at least fifteen seconds.

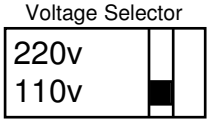
CAUTION: READ THIS BEFORE OPERATING YOUR UNIT

1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place – away from windows, heat sources, and too much vibra tion, dust, moisture or cold. Avoid sources of hum (transformers, motors). To prevent fire or electrical shock, do not expose to rain and water.
3. Do not operate the unit upside-down.
4. Never open the cabinet. If a foreign object drops into the set, contact your dealer.
5. Place the unit in a location with adequate air circulation. Do not interfere with its proper ventilation; this will cause the internal temperature to rise and may result in a failure.
6. Do not use force on switches, knobs or cords. When moving the unit, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.
7. Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a clean, dry cloth.
8. Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.
9. This unit consumes a fair amount of power even when the power switch is turned off. We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time. This will save electricity and help prevent fire hazards. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
10. To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.
11. The general digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.

NOTE:
Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

Voltage Selector (General Model Only)
Be sure to position the voltage selector to match the voltage of your local power lines before installing the unit.

Voltage Selector



Welcome....

And thank you for purchasing the DTX-5000G from VocoPro, your ultimate choice in Karaoke entertainment! With years of experience in the music entertainment business, VocoPro is a leading manufacturer of Karaoke equipment, and has been providing patrons of bars, churches, schools, clubs and individual consumers the
opportunity to sound like a star with full-scale club models, in-home systems and mobile units. All our products offer solid performance and sound reliability, and to further strengthen our commitment to customer satisfaction, we have customer service and technical support professionals ready to assist you with your needs. We have
provided some contact information for you below.

VocoPro

1728 Curtiss Court

La Verne, CA 91750

Toll Free: **800-678-5348**

TEL: **909-593-8893**

FAX: **909-593-8890**

VocoPro Company Email Directory

Customer Service & General Information

info@vocopro.com

Tech Support

techsupport@vocopro.com

Remember Our Website

Be sure to visit the VocoPro website, WWW.VOCOPRO.COM, for the latest information on new products, packages and promo's. And while you're there don't forget to check out our Club VocoPro for Karaoke news and events,
chatrooms, club directories and even a KJ Service directory!

We look forward to hearing you sound like a PRO, with VocoPro, your ultimate choice in Karaoke entertainment!

FOR YOUR RECORDS

Please record the model number and serial number below, for easy reference, in case of loss or theft. These numbers are located on the rear panel of the unit. Space is also provided for other relevant information

Model Number

Serial Number _____

Date of Purchase _____

Place of Purchase _____

_____

LISTENING FOR A LIFE TIME

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. VocoPro and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to a higher volume of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.
- Pay attention to the different levels in various recordings.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Some common decibel ranges:

Level	Example
30	Quiet library, Soft whispers
40	Living room, Refrigerator, Bedroom away from traffic
50	Light traffic, Normal Conversation
60	Air Conditioner at 20 ft., Sewing machine
70	Vacuum cleaner, Hair dryer, Noisy Restaurant
80	Average city traffic, Garbage disposals, Alarm clock at 2 ft.

The following noises can be dangerous under constant exposure:

Level	Example
90	Subway, Motorcycle, Truck traffic, Lawn Mower
100	Garbage truck, Chainsaw, Pneumatics drill
120	Rock band concert in front of speakers
140	Gunshot blast, Jet plane
180	Rocket launching pad

-Information courtesy of the Deafness Research Foundation

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- Dimensions : 19-1/4" (L) x 10-1/5" (D) x 5" (H)

SPECIFICATIONS

Mic

Input Sensitivity	4 mV / 10kΩ
Frequency Response	20Hz ~ 18KHz ±4dB
Delay Time	260 ms Max
Signal to Noise Ratio	> - 65dB
Limitation	> +15dB
Bass	100Hz ±8dB
Treble	10KHz ±8dB

Audio

Input Sensitivity	250 mV / 10kΩ (AV1-AV2-AV3)
Output Voltage	2 Vrms (Audio Out 1)
	600 mV (Audio Out 2)
Coaxial Input	0.5 Vp-p / 75Ω
Bass	100Hz ± 10dB
Treble	10Khz ± 10dB

Video

Input Voltage	1 Vp-p / 75Ω
Output Voltage	1 Vp-p / 75Ω

Dimensions

(W x D x H)	17" W x 7" D x 1.7" H
Net Weight	6.6 Lbs
Gross Weight	7.5 Lb

Thank you for purchasing the DTX-5000G Professional Digital Karaoke Mixer/CD+G Decoder/Pre-Amp. At VocoPro we care about product quality and customer satisfaction. We know the DTX-5000G will provide years of high-quality enjoyment and reliable music entertainment for you when used properly.

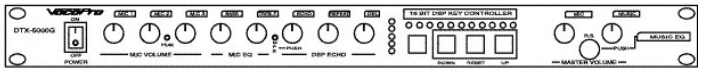
(Please Read Carefully Before Using Your New DTX-5000G)

Unpacking the DTX-5000G:

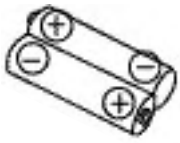
Carefully remove the CDG-5000G from its carton. It is recommended that the original packaging materials be retained, should it become necessary to return the product for any reason.

Be Sure You Have the Parts and Components Included with the DTX-5000G:

1- DTX-5000G



2- Batteries



1- Fiber-optic Digital Cable

1- RCA Dual

1- Remote Control

Supplying Power to the DTX-5000G:

Be sure that all your components, i.e. TV monitor, etc., are connected to the DTX-5000G before connecting it to a power source and supplying power to the unit. Be sure to use caution when plugging any electrical appliance into a power receptacle. The DTX-5000G is supplied with its own permanently attached power cord that can be plugged into any 120 Volt AC wall outlet or surge protector.

Player Requirements for Decoding CD+G's:

(a) Your player must have a digital output, either coaxial or optical
(b) Your player's digital output MUST support the T1 CD sub-code format
(Please check with the manufacturer of your player for compatibility information)
(c) The player must NOT have a T2 shock-buffer (memory buffer)

T1 Sub-Code and Digital Shock Buffers:

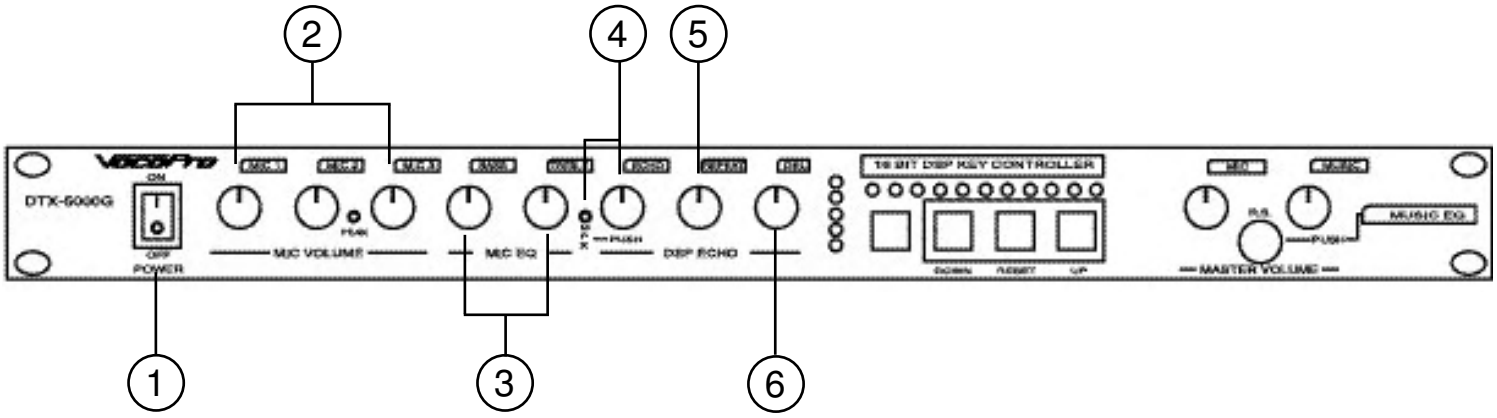
The T1 CD sub-code is the format into which graphical data is stored within a CD disc. A T2 digital shock-buffer is a feature that prevents skipping when the unit is subjected to shock by pre-recording three to five seconds of data into memory so that corrections can be made without interruption. Unfortunately this process also changes the T1 CD sub-code into a format that is not compatible with CD+G graphics decoders. In other words, graphics
information is lost when it is passed through a digital shock buffer. Therefore, it is recommended to only connect players without T2 digital shock buffers to the DTX-5000G.

Below is a list of known compatible players:

- American DJ (800 322 6337): DJ-1, DCD-200, DCD-300
- Gemini (800 848 9591): CD110, 210, 12, CDJ10, 15, 1100
- Numark (401 295 9000): CD Mix One, CD-N23s
- Panasonic: All of their CD and DVD players with a digital output
- Pioneer (800 782 7210): CDJ 100S, CDJ-700, CDJ-700S, CDJ500-2
  All their DVD players with a digital output.
- Sony (800 892 7669): All CD/DVD players with a digital output
- Stanton (954 929 8999): S-500

(Check with manufacturer for up to date information. The above list was gathered in our demo tests, and results may differ with units manufactured thereafter).

FRONT PANEL



1. **POWER BUTTON -** This button turns the DTX-5000G On/Off.

2. **MIC VOLUME -** Each Mic channel has its own VOLUME control. This makes it possible to adjust just one Mic channel without affecting the other 2 channels. Turn **clockwise** to **increase** VOLUME, and **counter-clockwise** to **decrease** VOLUME.

3. **MIC TREBLE AND BASS -** The MIC TREBLE and BASS controls adjust the levels of high and low frequencies on all 3 Mic channels. To **increase** more TREBLE or BASS to the Mic channels, simply turn either of the knobs **clockwise** to increase levels or **counter-clockwise** to **decrease** levels.

4. **ECHO/MPX SELECTOR –** This dual-function infinite control serves as **both** a MASTER ECHO control and a MULTIPLEX MODE SELECTOR.

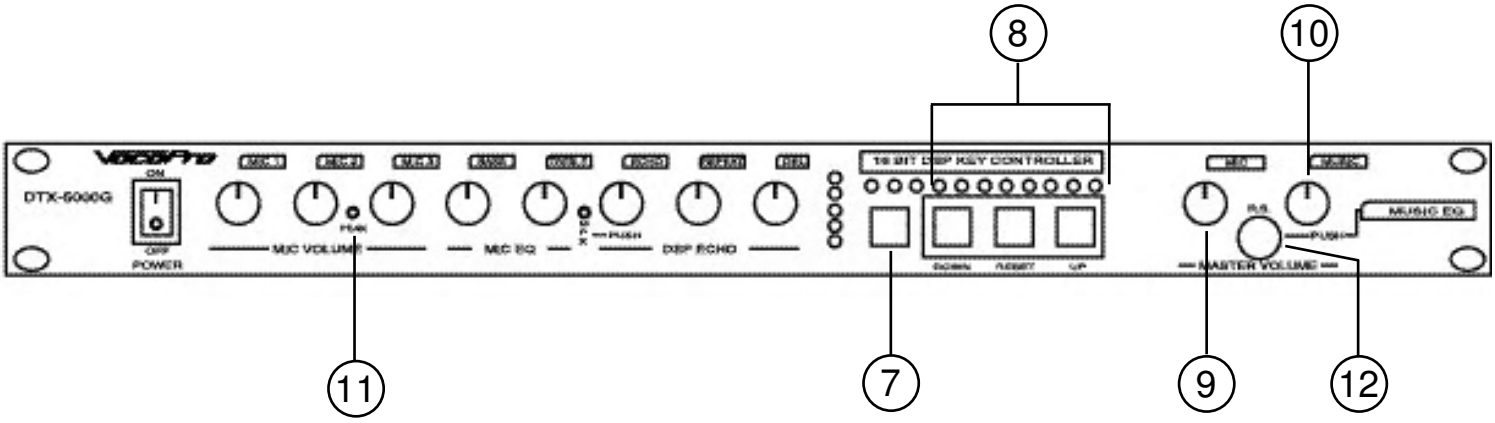
   • To adjust the ECHO level, turn knob clockwise to increase level, and counter-clockwise to decrease level.

   • To use the MPX SELECTOR, push knob inward. There are three MPX modes:

MPX MODE	FUNCTION	COLOR
Vocal Cancel	Cancels guide vocals on multiplexed software	Red
Vocal Partner	Cancels guide vocals on multiplexed software when singing only	Green
Vocal Reducer	Reduces vocal layer on a standard CD	Orange
Off	None	None

5. **REPEAT -** This control is a facet of the Digital Echo process. REPEAT adjusts the interval repetition of the echo effect. As more REPEAT is applied, more echo intervals will take place. Turn **clockwise** to **increase** and **counter-clockwise** to **decrease** the REPEAT level.

6. **DELAY -** This control also is a facet of the Digital Echo process. DELAY adjusts the length of each echo interval. As more DELAY is applied, there will be more "space" applied between the starting and ending point of each echo. Turn **clockwise** to **increase** and **counter-clockwise** to **decrease** the DELAY level.



7. **INPUT SELECTOR –** This button toggles through the five input channels. Available channels are DG1, DG2, AV1, AV2 and AV3. Use this button to select the INPUT source. The currently selected source will have a red LED illuminating in the LED display.

8. **DIGITAL KEY CONTROLLER –** The Digital Key Controller allows you to modify the original key of a track without changing its tempo. The Controller can step up or down for a total of 11-Steps. To step **down**, press the **left button** marked **"b"**. To step up, press the **right button** marked **"#"**. To revert back to the original key, press the center key.

NOTE: *When in original key, the green LED will stay illuminated.*

9. **MIC MASTER VOLUME –** The MIC MASTER VOLUME control serves as a single VOLUME control for all 3 MIC channels. This allows you to increase or decrease MIC VOLUME levels with one control.

NOTE: *If you desire to adjust the VOLUME of just one MIC channel in particular, it is recommended to use that MIC's individual VOLUME control.*

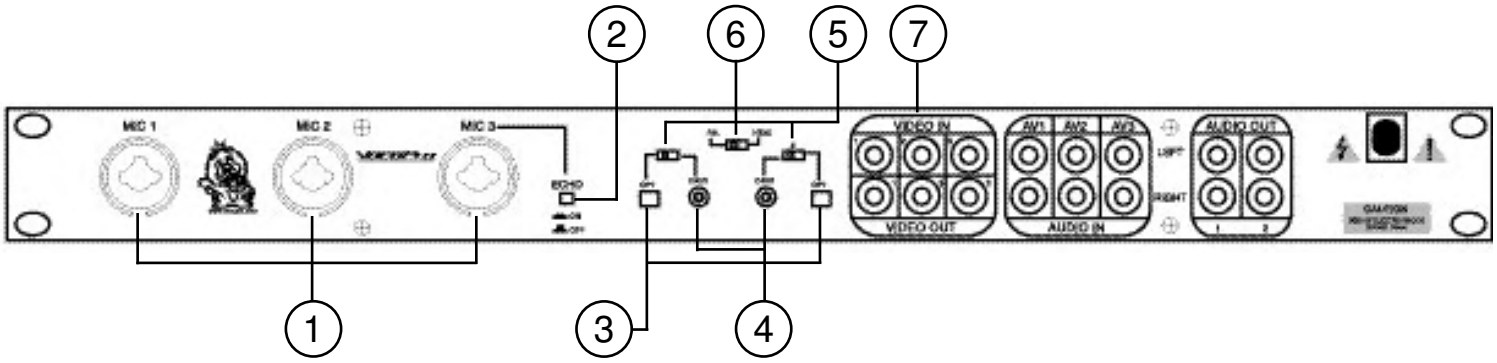
10. **MUSIC MASTER VOLUME\MUSIC EQ –** This dual function control serves both as a MUSIC MASTER VOLUME control and a MUSIC EQ selector \ control.

- To adjust the MUSIC MASTER VOLUME, turn **clockwise** to **increase** and **counter-clockwise** to **decrease.**
- To adjust MUSIC EQ settings, **press** control **inward** once for TREBLE adjustments, and twice for BASS adjustments.

11. **PEAK LED –** The PEAK LED is designed to alert users of possible Mic level overdrive. The LED will illuminate when the level reaches a "red" or PEAK level (as in a VU Meter). To achieve optimum sound, avoid steady peak levels.

12. **REMOTE CONTROL SENSOR –** This sensor receives signals from the Remote Control. The area between the Remote Control and the DTX-5000G should be clear of large obstacles.

REAR PANEL



1. **XLR / 1/4" MIC (3) -** These combo jacks can be used to connect both a balanced low impedance (XLR) microphone and an unbalanced high impedance (1/4") microphone or line-level device. The 1/4" INPUT jack is located in the middle of the jack housing. The XLR INPUT jack is located within the outer perimeter of the jack housing.

   NOTE: *For a dedicated KJ/DJ Mic that bypass' the DSP Echo effect, use Mic channel 3 (see below).*

2. **MIC 3 ECHO ON/OFF –** This button is used to bypass, or prevent echo from being applied to MIC 3. When the button is pressed in, echo settings will be applied to MIC 3. When the button is depressed, no echo set tings will be applied to MIC 3. This feature is used mainly by KJ/DJ's to make dry announcements.

3. **DIGITAL 1 & 2 OPTICAL (2) –** These inputs are for connecting digital devices with an OPTICAL cable. Please make sure to remove the protective covers from these inputs prior to connecting an optical inputs.

   NOTE: *When not using these inputs, keep the protective covers on to protect them from dust and foreign material.*

4. **DIGITAL 1 & 2 COAXIAL (2) –** These inputs are for connecting digital devices with a COAXIAL cable.

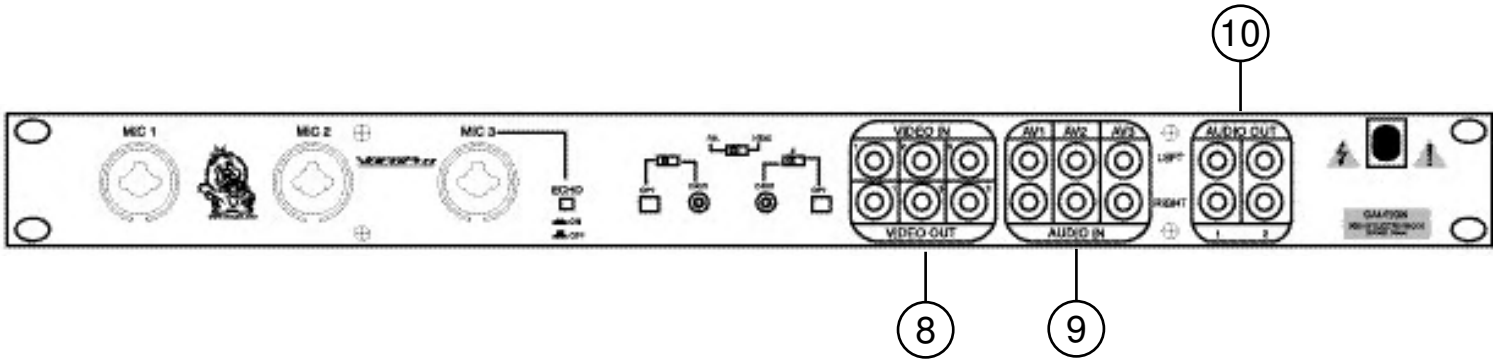
5. **DIGITAL 1 & 2 OPT/COAX INPUT SELECTOR –** This switch toggles between the OPTICAL and COAXIAL input jacks. Each digital channel has its own OPT/COAX INPUT SELECTOR. Use this switch to toggle between devices. For example, if you have a device connected to OPT on DG1, you would set DG1's OPT/COAX INPUT SELECTOR to OPT.

6. **NTSC/PAL VIDEO SELECTOR –** This switch toggles between NTSC and PAL video modes. In order for CD+G graphics to display correctly, this switch must be set correctly. For North, South and Central America set this switch to NTSC. For European countries, select PAL.

   NOTE: *The NTSC/PAL switch is for the CD+G graphics monitor only.*

7. **VIDEO IN (3) -** These VIDEO IN jacks allow the video portion of A/V devices i.e. CD+G, VCD, DVD players to be connected to the DTX-5000G. Connect RCA style cables or composite video cables from these jacks to the VIDEO OUT jacks on you A/V devices.

   NOTE: *The DTX-5000G's CD+G decoder will not work with devices connected to these VIDEO IN jacks. These VIDEO IN jacks are designed for devices without digital outputs.*



8. VIDEO OUT (3) – The DTX-5000G has 3 RCA style VIDEO OUT jacks. These VIDEO OUT jacks supply video to monitors, TFT displays and compatible TV's. Connect RCA style video cables from these VIDEO OUT jacks to the VIDEO IN jacks on your display devices.

NOTE: *You will not be able to use the OSD (On-Screen Display) with VIDEO OUT jack 1, as that jack is designed to be connected to a karaoke singer's monitor, and OSD display text would distract the singer.*

9. AUDIO IN (3) – These AUDIO IN jacks are for connecting the audio portion of input devices to the DTX-5000G. Connect RCA style cables from these AUDIO IN jacks to the AUDIO OUT jacks on your input devices.

NOTE: *These AUDIO IN jacks are designed for devices without digital outputs. If you have connected a device via a digital jack (OPT/COAX), you do not need to also connect audio cables to these AUDIO IN jacks, as audio signals are passed through the digital cables.*

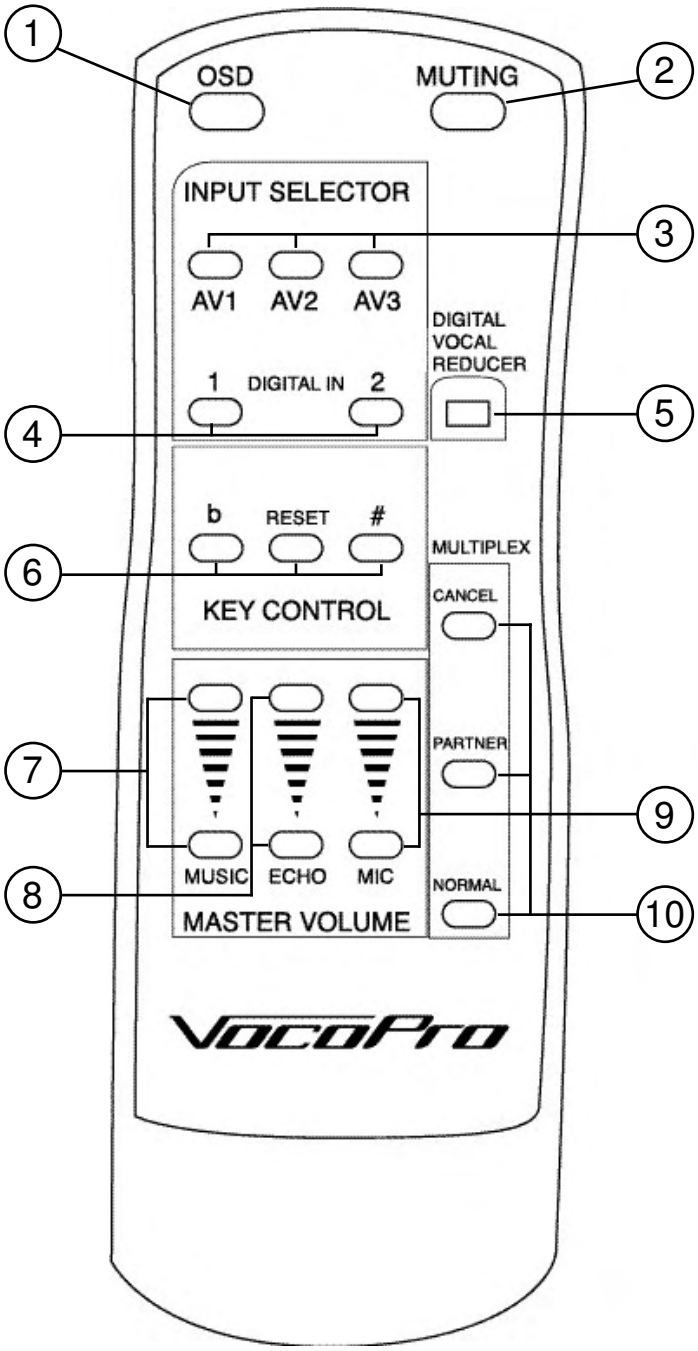
10. AUDIO OUT (2) – These AUDIO OUT jacks are for connecting the DTX-5000G to power amplifiers, pre-amps, receivers or recording devices. It is important to note a difference between the two AUDIO OUT jacks:

- **AUDIO OUT 1** is designed for connection directly to a power amplifier. Output signals from AUDIO OUT 1 are "hotter" than signals from AUDIO OUT 2. This is so since power amplifiers require more signal input.

NOTE: *Connecting the DTX-5000G to a pre-amp or receiver from this AUDIO OUT jack may overdrive the pre-amp/receiver.*

- **AUDIO OUT 2** is designed for connection to pre-amps, receivers or recording devices. Output signals from AUDIO OUT 2 are "less hot" than signals from AUDIO OUT 1. This is so since pre-amps/receivers require less signal input.

NOTE: *Connecting the DTX-5000G to a power amplifier from this AUDIO OUT jack will not utilize the power amplifiers total output.*



Remote Control Descriptions

1. OSD – Use this button to turn the ON-SCREEN DISPLAY On/Off.

2. MUTING – Use this button to cut volume to 0 dB. Press button once to mute. Press a second time to return volume to original level.

3. A/V INPUT SELECTORS – Use these buttons to select one of the three A/V channels. Available sources are AV1, AV2 and AV3.

4. DIGITAL INPUT SELECTORS – Use these buttons to select one of the two digital channels. Available channels are DG1 and DG2.

5. DIGITAL VOCAL REDUCER – Use this button to remove the vocals from a standard or "non-multiplexed" CD's. To cancel, press the NORMAL button.
NOTE: *This feature will not work with multiplexed formats.*

6. KEY CONTROL – Use these buttons to reach a desired musical key. Pressing the 'b' button will drop the key a 1/4" step each time it is pressed. Pressing the '#' button will up raise the key a 1/4" step each time it is pressed. Pressing the 'RESET' button once will revert the key back to its
original key. The Digital Key Controller has an 11-step range (5 -/+ and original)

7. MUSIC MASTER VOLUME - Use these buttons to raise/lower the MASTER MUSIC VOLUME. Pressing the top button repeatedly will raise the MASTER MUSIC VOLUME. Pressing the bottom button repeatedly will lower the
MASTER MUSIC VOLUME.

8. ECHO MASTER VOLUME – Use these buttons to raise/lower the ECHO process to the MIC channels. Pressing the top button will raise the ECHO level.
Pressing the bottom button will lower the ECHO level. ***NOTE:*** *These buttons do not affect the DELAY OR REPEAT settings.*

9. MIC MASTER VOLUME - Use these buttons to raise/lower the MASTER MIC VOLUME. Pressing the top button repeatedly will raise the MASTER MIC VOLUME. Pressing the bottom button repeatedly will lower the MASTER MIC VOLUME.

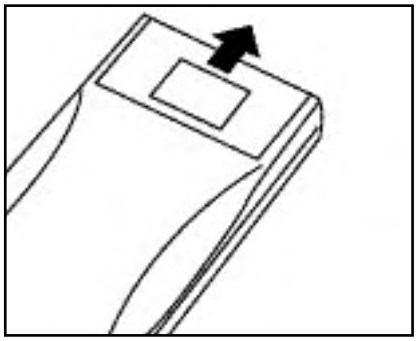
10. MULTIPLEX – Use these buttons to utilize the MPX features. Pressing the CANCEL button will activate the VOCAL CANCEL mode. Pressing the PARTNER button will activate the VOCAL PARTNER mode. Pressing the
NORMAL button will cancel any MPX mode in progress.

MPX MODE	FUNCTION
Vocal Cancel	Cancels guide vocals on multiplexed software
Vocal Partner	Cancels guide vocals on multiplexed software when singing only
Vocal Reducer	Reduces vocal layer on a standard CD
Off	None

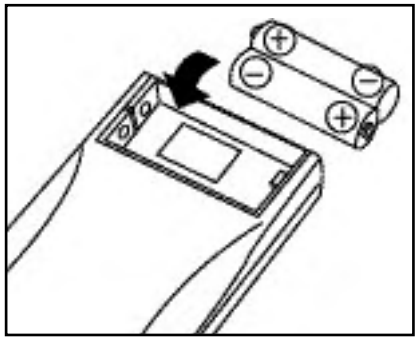
Remote Control Functions

Insertion of Remote Control Batteries

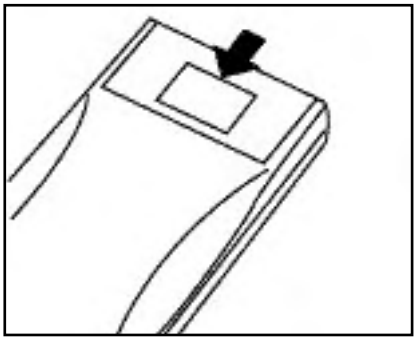
1 Open the battery housing cover.



2 Insert the batteries in the numbered order



3 Close the cover untill it snaps back together

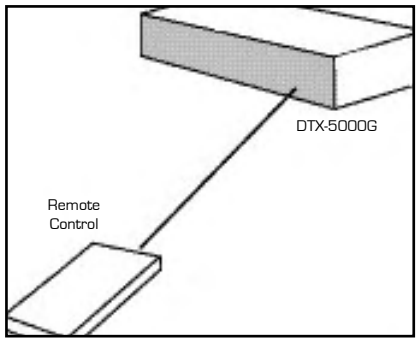


Notes concerning use of dry batteries:

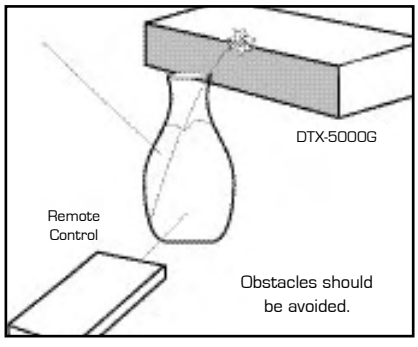
- Be sure batteries are inserted so that the positive (+) and negative (-) polarities are correct.
- Batteries installed with incorrect polarities may leak and damage this unit.
- Never subject the batteries to excessive heat or flame; do not attemt to disassemble them; and be sure they are not short-circuited.
- If the unit is not to be used for a long time, remove the batteries and store them in a cool dark place.
- Always remove old, weak or worn-out batteries promptly and dispose of them.
- Never mix old and new batteries, nor natteries of different types. (Carbon or Alkaline)

Remote Control Operation Notes

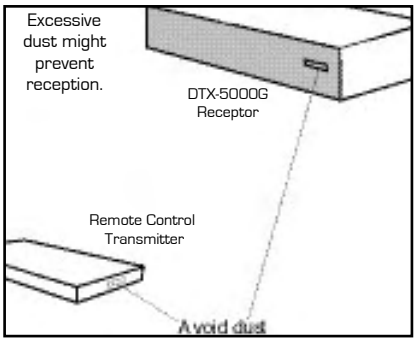
1 Use the Remote Control within 7 meters.



2 Face it toward the Remote Control signal sensor.

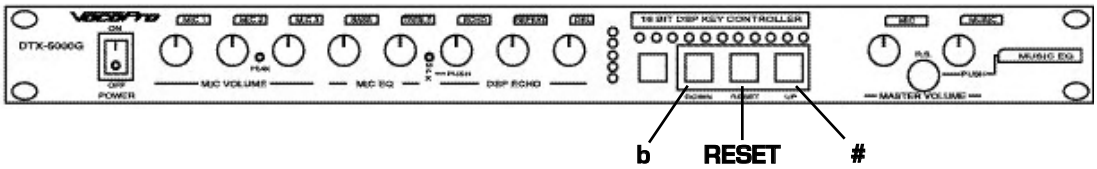


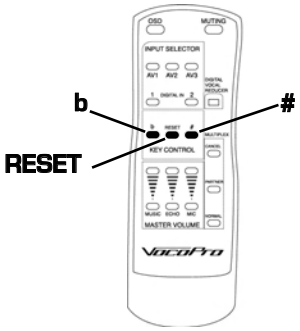
3 Make sure transmitter and receptor part of the unit are free from dust.



Using Digital Key Control

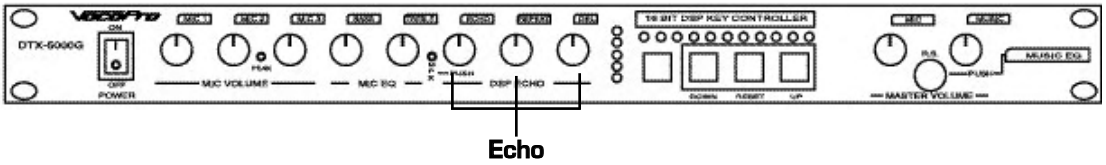
Use the Digital Key Controller to obtain the desired musical key (± 2.5 notes, 11-steps). The Digital Key Controller LED indicators (± 5 and 0 indicators) display the selected pitch. To step up, press the left button marked **"b"**. To step down, press the right button marked **"#"**. To revert back to the original key, press the **RESET** button.

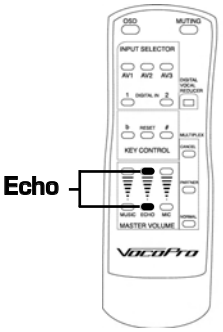




Customizing Digital Echo settings

When using Digital Echo, you can customize the effect by adjusting the **ECHO**, **REPEAT** and **DELAY** controls. REPEAT adjusts the interval repetition of the Echo effect. As more Repeat is applied, more Echo intervals will be heard when using it and vice versa. DELAY adjusts length of each interval. As more Delay is applied, there will be more "space" between the starting and ending point of each Echo.

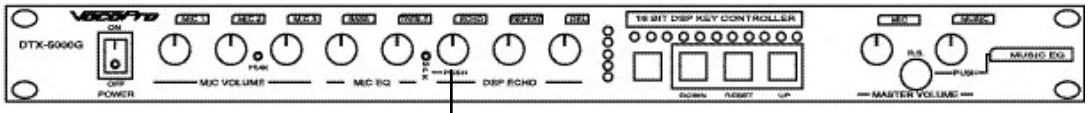


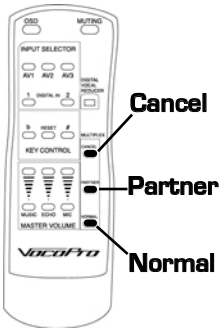


Removing the Vocal Layer from a Multiplex Disc

When playing Multiplex software, you can use either the **CANCEL** or **PARTNER** feature to remove the vocal layer from playback. If you select **CANCEL** the vocal layer will be removed. To have the vocal layer return to the mix, select **NORMAL** mode.If you select **PARTNER**, the vocal layer will be removed only as long as you are singing into a Mic. When Mic activity ceases, the vocal layer automatically returns. To have the original vocal layer return to the mix, select **NORMAL** mode.

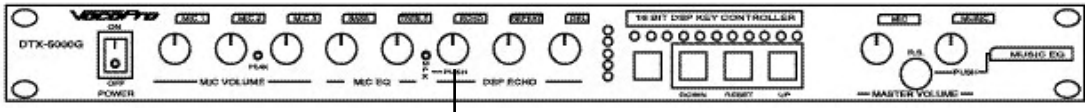
- **To do this from the front panel, use the MPX SELECTOR (see page 4 for MPX table.)**
- **To do this from the Remote Control, use the MULTIPLEX button set.**

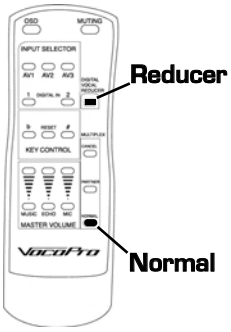




Removing the Vocal Layer from a Standard (Non-Multiplexed) Disc

To remove the vocal layer from a standard disc, press the **DIGITAL VOCAL REDUCER** button on the remote control or set the **MPX SELECTOR** to **REDUCER** (orange LED). This feature is designed to work with any non-multiplexed CD. Results may vary depending on how the disc was recorded originally. To bring vocals back to the mix, select the **NORMAL** button, or set the **MPX SELECTOR** to **NORMAL** (no LED).





Recording a Performance or Mix

To RECORD, connect a line-level patch cable from the AUDIO OUT 2 jack to a recording device.

Connecting a TV Monitor

If you will be connecting your DTX-5000G to a TV monitor you should use an RCA video cable. On the back of the DTX-5000G, locate the RCA connector jack labeled VIDEO OUT (there are three). Please note that while all three VIDEO OUTPUT jacks will output decoded video graphics, only VIDEO 2 and VIDEO 3 outputs will contain the on-screen functions display.

Do not use the VIDEO 1 output unless you are using another TV as the monitor for the singer, as this output bypasses the on-screen functions display to prevent singer distraction.

Connect either end of an RCA video cable to the desired VIDEO OUT jack and connect the other end to the VIDEO INPUT jack on your TV monitor.

Connecting a Player to the DTX-5000G

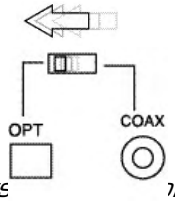
For players with a Digital output (required if CD+G graphics are to be decoded and displayed):

(a) Determine the type of digital cable that you will be using. We have included an optical cable that can be used if your player has an optical output. If your player has a coaxial output, you should use a standard RCA video cable.

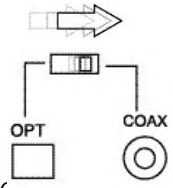
1- Fiber-optic Digital Cable

1- COAXIAL

(b) 1. If you will be using an optical cable, please switch the OPT/COAX switch on the rear of the unit to unit to its OPT position.



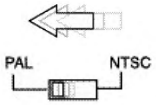
(b) 2. If you are using a coaxial cable, set the switch to COAX.



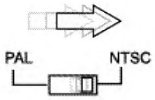
NOTE: *There are two digital inputs [illegible] of them can independently be [illegible] accommodate either an optical or a coaxial input.*

(c) For TV monitors using the NTSC standard (including the U.S., Canada, Mexico, Central America and South America), switch the PAL/NTSC switch on the rear of the unit to the NTSC position. For European TV monitors, the switch should be set to the PAL position.

European TV Monitors



U.S., Canada, Mexico, Central America and South America TV monitors.

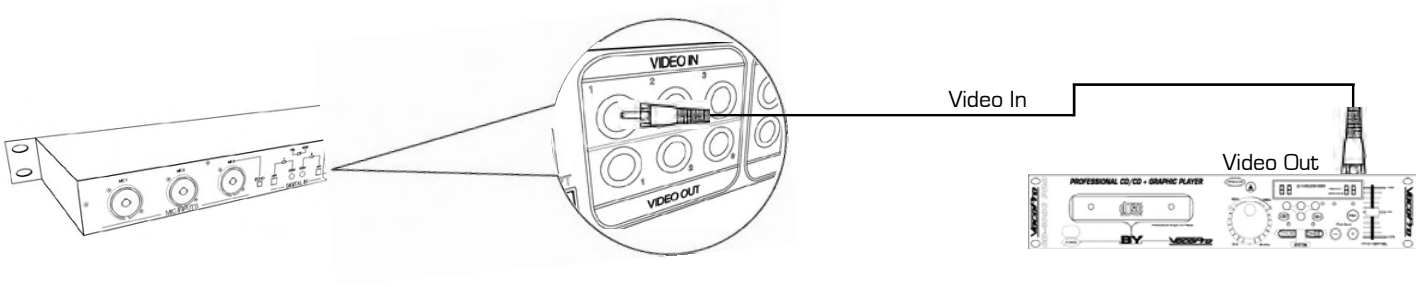


NOTE: *NTSC/PAL switch is for [illegible] graphics monitor only. The format of the external video input to the DTX-5000G VIDEO INPUT jacks will not be changed by the setting of this switch.*

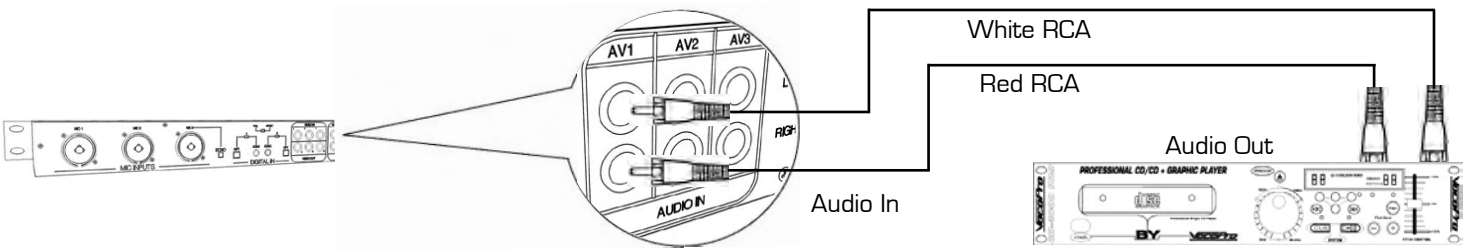
(d) **The DTX-5000G is factory set for 120V AC operation only. Plugging the DTX-5000G into a 220V power source will severely damage the unit and will void the warranty. (If you live in an area that uses 220V AC outlets, please check with your VocoPro dealer to make sure the unit has been switched for 220V use).**

For Players with No Digital Output (No CD+G Graphics Decoding)

(a) Connect an RCA cable from the VIDEO OUTPUT from your player to any VIDEO INPUT of the DTX-5000G.



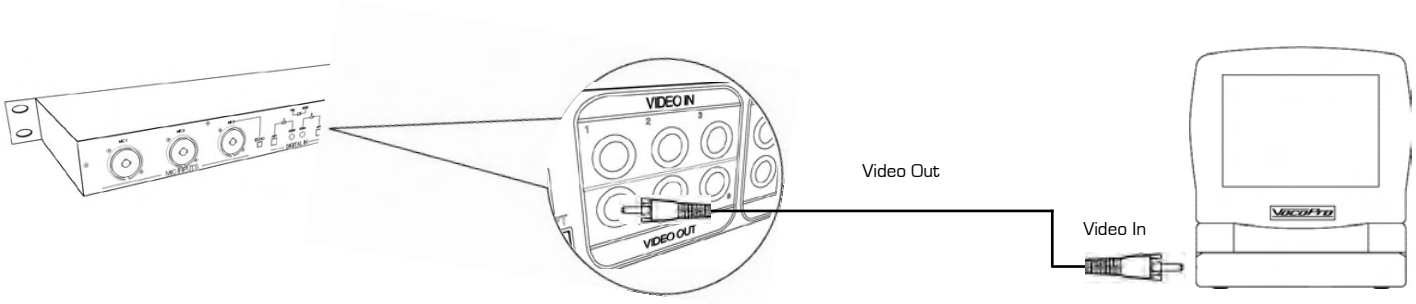
(b) Connect the AUDIO OUTPUT jacks of the player (red and white) to any pair of AUDIO INPUT jacks (red and white) on the DTX-5000G using the supplied dual RCA cable.



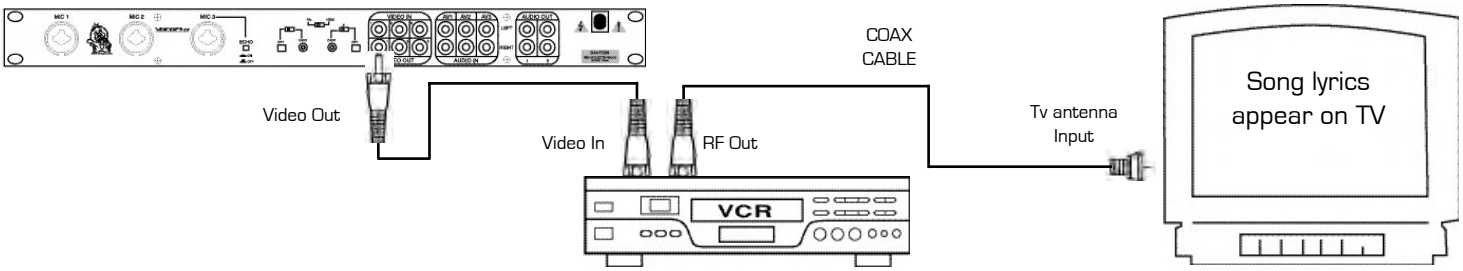
Connecting a Video Cable to the TV

The DTX-5000G has three VIDEO OUTPUT jacks, all of which output decoded CD+G graphics. The on-screen functions display, however, is not available at the VIDEO 1 output in order to prevent the singer from being distracted.

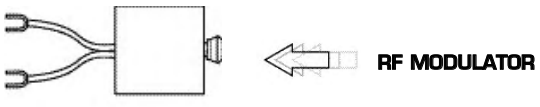
(a) Connect an RCA video cable from the desired VIDEO OUTPUT jack on the DTX-5000G to the VIDEO INPUT jack on the TV. Some TV's will require that you manually switch the TV to the VIDEO INPUT mode. Other TV's will automatically switch to the video mode when they detect a video signal at the Video input jack. On most TV's the jack is labeled AUX or VIDEO.



(b) If the TV does not have a VIDEO INPUT jack you may connect that end of the cable to the VIDEO INPUT of a VCR and connect the RF OUTPUT of the VCR to the TV ANTENNA INPUT jack.



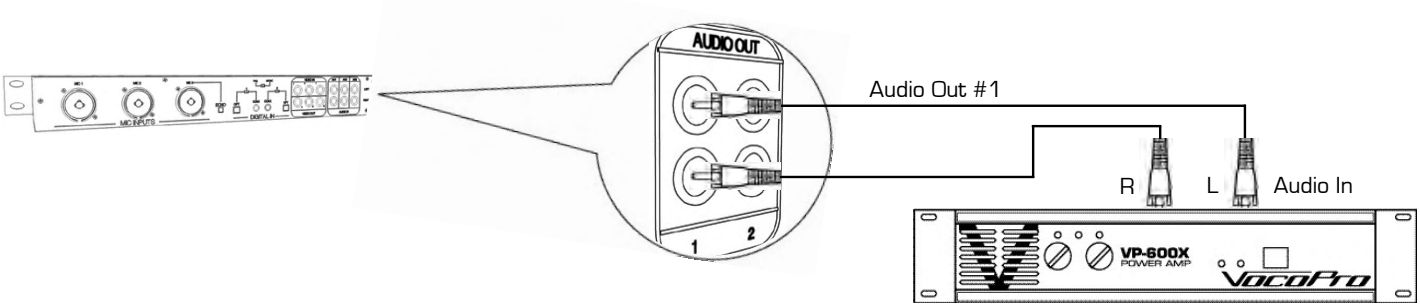
(c) If there is no VCR present, you will need to use an RF Modulator. To obtain an RF Modulator, check with your VocoPro dealer. An RF Modulator can also be purchased from Radio Shack™.



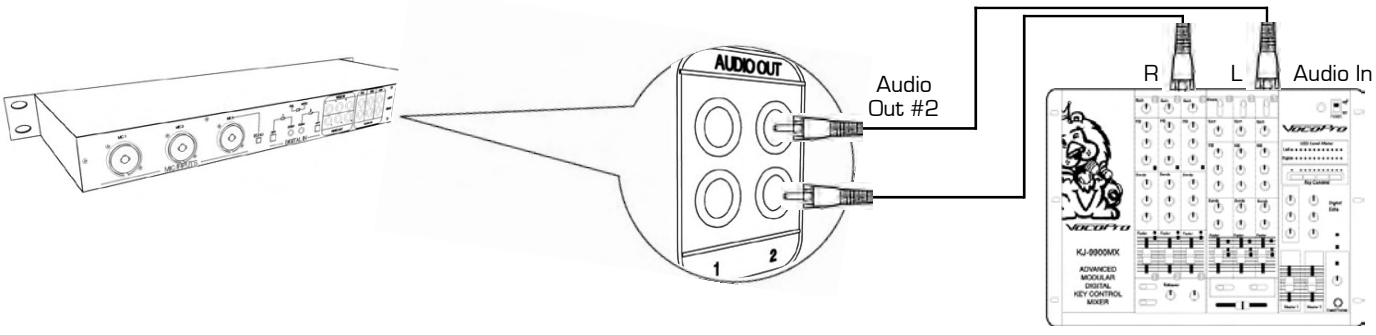
Connecting the Audio to the Sound System

The DTX-5000G has two pairs of AUDIO OUTPUTS:

AUDIO OUT 1: This OUTPUT is for connecting the DTX-5000G directly to the INPUT of a power amplifier. Using the supplied RCA cable, make connections from the AUDIO OUT 1 to the AUDIO INPUTS of the power amplifier.



AUDIO OUT 2: This OUTPUT is for connecting the DTX-5000G to a Receiver/Pre-Amp or mixer. Using the supplied RCA cable, make connections from the AUDIO OUT 2 to the "AUX" or "CD" INPUT of the Receiver/Pre-Amp or Mixer.



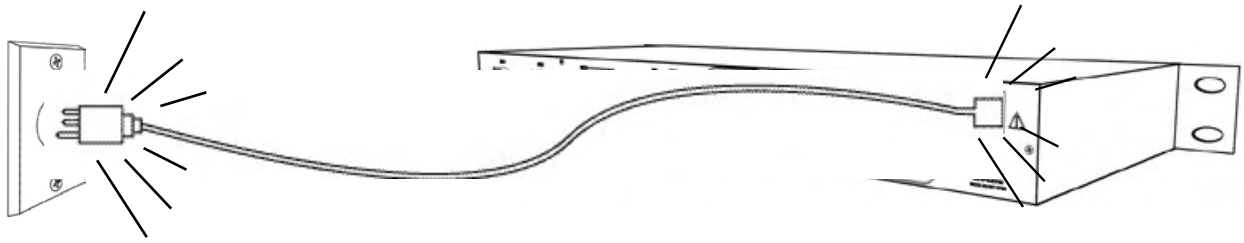
Connecting the Microphone Cable to the DTX-5000G

The DTX-5000G's Microphone jacks will accommodate both the balanced XLR and the unbalanced 1/4" microphone plugs. The Digital Echo feature affects inputs to microphone jacks 1, 2 and 3. Digital Echo can be disabled to Mic jack 3 by using the Echo On/Off button.

Powering Up

(a) Plug the power cord of the DTX-5000G to a 120-Volt AC wall outlet. **To operate the DTX-5000G from a 220V AC power source, it will be necessary to switch to 220V internally. This task should be performed by an authorized VocoPro service center or please check with your dealer to see if this has been switched to 220V already.**

Note: *Plugging the DTX-5000G into a 220V power source will severely damage the unit and will void the warranty.*



(b) Turn on your sound system(s) and TV. Do not turn on the DTX-500G.

(c) Be sure your TV is set to receive video input from the VIDEO INPUT jack.

(d) Turn the POWER switch on the DTX-5000G to its ON position.
You should see the words: "www.vocopro.com" briefly displayed on the TV screen. Please remember that there will be no on-screen functions display from VIDEO OUTPUT 1.

Sound Check

(a) Select the correct input on your sound system. (For example, if the AUDIO OUTPUT from the DTX-5000G is connected to the CD INPUT of the sound system, the CD INPUT of your sound system should be selected).

(b) Set the three MIC VOLUME controls to their center positions. Set both the MASTER MIC & VOLUME and the sound system volume controls to about 25-percent from their minimum positions.

(c) Set the DTX-5000G's INPUT SELECTOR to the correct channel. (For example, if you wish to play from the layer connected to Digital 1 input, set the input selector to DG1).

(d) Start playback from source and ensure MIC is on. You should hear the playback and your vocals when singing into the MIC.

(e) Adjust ECHO settings via the DSP Echo controls. These scrolling controls set the ECHO, DELAY and REPEAT levels applied to MIC channels.

(f) Step up and down with the Digital Key Controller.

YOUR SOUND CHECK IS NOW COMPLETE!

Problem	Possible Cause(s)	Solution(s)
No sound coming from selected music source	Input Selector is set incorrectly	Change Input Selector to the correct current playing source
	Music Master Volume control is set to minimum	Raise Music Master Volume level to an appropriate level
	External device(s) are either not connected or not working properly	Check external device(s) connections and viability
No graphic output from display devices when playing CD+G's	Player does not support T1 sub-code.	Replace Player with a model that supports T1 sub-code
	Video cable(s) are not properly connected	Reconnect cables firmly to correct video jacks
	Disc medium is not a CD+G	Insert a CD+G for playback
	OPT/COAX switch is not set correctly	Change OPT/COAX switch to the correct setting in use
Vocal Reducer feature are not working properly	Disc is multiplexed	Insert a non-multiplexed disc
Vocal Cancel or Partner features are not working properly	Disc is not multiplexed	Insert a multiplexed disc
No echo applied to audio	Echo master level control is turned down	Turn echo master level control up
	Echo On/Off button for Mic 3 is set to Off	Set echo On/Off button to On
	Microphone is pointed to, or to close to speakers	Move microphone away from speakers
High pitched squealing occurs when using the microphone	Treble level(s) are too high on microphone channel(s)	Turn down treble level(s) on microphone channel(s)
	Video Out jack 1 is being used	Use Video Out jack 2 or 3
On-Screen Display is not working	OSD feature is turned off	Press OSD button on the Remote Control
	Batteries are out of charge	Replace with new batteries
Remote Control is not functioning	There is an obstacle between the Remote Control and Sensor	Clear area between Remote Control and Sensor

GLOSSARY OF TERMS

Digital Echo: Digital echo is a synthetically processed sound effect that mimics natural echo. Echo in general is the "bouncing" of waves back and forth between 2 surfaces. This effect gives a spacious or ambient feeling that works great with vocals.

Repeat: Repeat is facet of the echo process. Repeat refers to the frequency of echoes within a period of time.

Delay: Delay is also a facet of the echo process. Delay refers to the amount of time that exists between echoes.

Vocal Cancel: Vocal Cancel is a feature that removes vocals from multiplex CD tracks. To be multiplexed, a disc must have the vocals coded to the right channel and the music coded to the left channel. When you select Vocal Cancel, the unit will remove the right channel (vocals) and split the left channel (music) to both sides.

Vocal Partner: Vocal Partner is a feature that removes vocals from multiplex CD tracks much in the same way as Vocal Cancel, but with an added "auto-pilot" function. The main difference is that Vocal Partner will only remove vocals as long as there is activity going through the microphone (singing). When you stop singing, the vocals automatically return.

Vocal Reducer: Vocal Reducer is a feature that removes vocals from standard non-multiplex CD tracks. To do this, the unit compares the audio on the left and right channels, and cancels out any signals that appear on both. Most currently recorded CD's contain the vocal layer on both sides, however some may not, rendering this feature unusable for that CD.

CD+G: A CD+G is a specially formatted disc that has an additional line of sub-code on the CD that is responsible for the lyrics that play on video screen for Karaoke systems. CD+G stands for Compact Disc + Graphics.

Sub-Code: Sub-code is specially coded area of data used by CD+G manufacturers to produce lyrics for Karaoke video output.

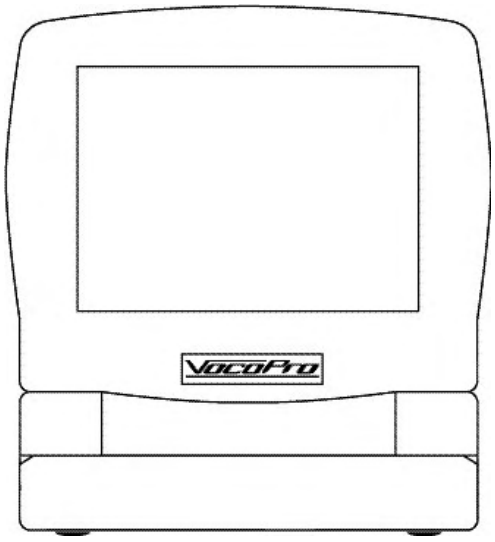
Multiplex (MPX): Multiplex is a type of Karaoke software that has specially formatted left and right channels to make multiplex features available. To be formatted for multiplex use, a disc must have the vocals coded to the right channel and the music to the left channel. When you select a multiplex mode, the unit will remove the right channel (vocals) and split the left channel (music) to both sides.

Rack Mountable: Rack Mountable refers to the ability to place unit into professional or travel rack cases. Such cases are great for building complete systems and protect them during transportation. The standard rack size for MOST cases is 19".

VCD: VCD is a disc formatted in MPEG-1. These discs are good candidates for Karaoke use as they have an audio and a video layer to them. VCD stands for Video Compact Disc.

A/V: A/V is an abbreviation for Audio/Visual.

LCD-V5

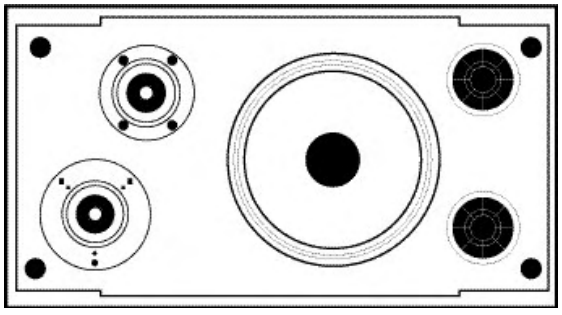


5" TFT LCD Color Monitor

FEATURES:

- TFT LCD Color Monitor
- Audio/Video Input
- 3 Watts Stereo Speakers
- Headphone Output With Volume Control
- Color/Brightness Adjustment
- Reversible Screen Control For Both Table Top Or Auto Roof Mounting
- 12v Dc Adapter Included

SV-420

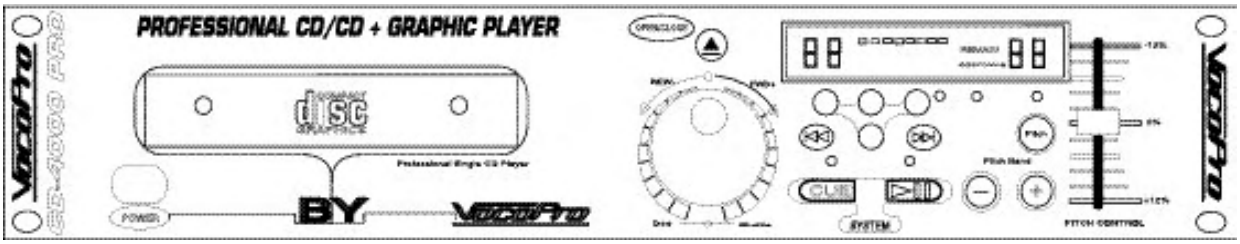


Professional 8" 3 Way Vocal Speakers

FEATURES:

- 3 Way 8" Karaoke Vocal Speakers (Sold in Pair)
- Design for Karaoke Studio or Singers Monitor
- Power Rating: 180 Watts Peak / 90 Watts RMS
- Metal Grill
- Impedance: 8 OHM
- Sensitivity: 92 DB
- Frequency Response: 20HZ-20KHZ
- Dimensions H x W x D: 19" x 12" x 11.25" (each)
- Shipping Weight: 50 Lbs. (pair)
- (Dimensional Weight: 60 Lbs. Due to Oversize)

CDG-4000

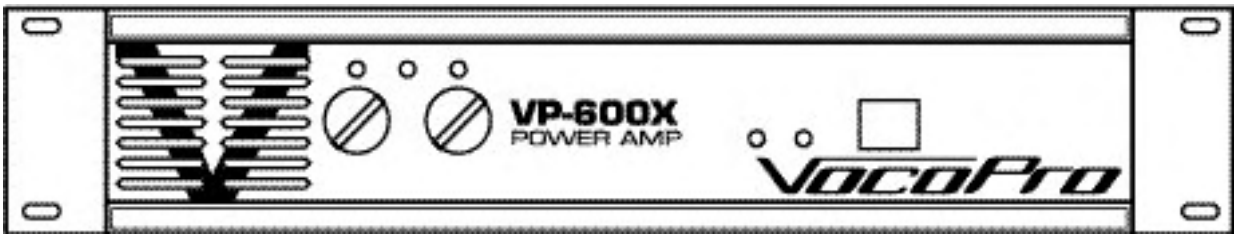


Professional CD/CD + Graphic Player

FEATURES:

- Pro CD Player W/ CD + Graphics Decoder
- Pitch Control To 12% (+) Or (-)
- Scramble protection during pitch changes
- Single Track Mode
- Frame Search W/ Jog Dial
- 4-Speed Fast Forward/Rewind Shuttle.
- Pitch Slider, Pitch Bend and Jog Dial
- BPM (Beat Per Minute) Synchronization
- Cue Detect Function
- Professional 19" Rack Mount Chassis
- Switchable 110-240V
- NTSC/PAL
- Dimensions: 19" W X 3 1/2" H X 10" D
- Shipping Weight: 9.35 Lbs.

VP-600X



FEATURES: 2 Space 300W Professional Power Amplifier

- 300W + 300W RMS
- 600W + 600W Max
- THD: 0.05%
- Frequency Response: 20HZ-20KHZ Signal to Noise
- 1/4" or XLR Inputs
- Input Ratio: Less than 100DB
- Input Sensitivity: 1.23V
- Dimension: W x D x H (19" x 13" x 1.5")
- Shipping Weight: 47 Lbs