# VocoPro®

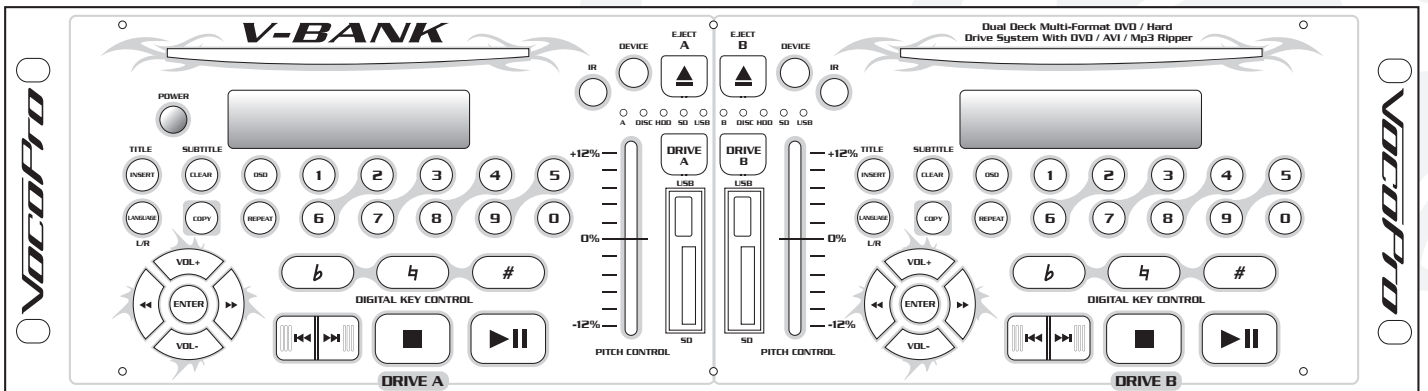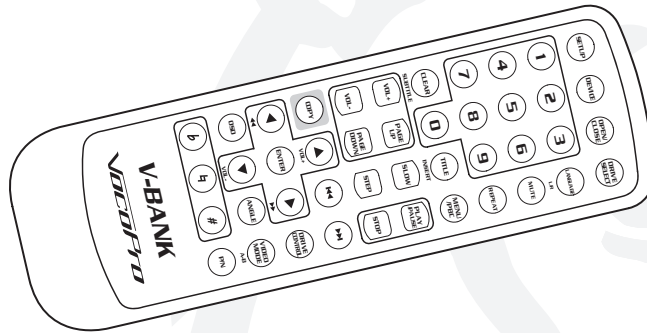## PROFESSIONAL VOCAL SYSTEMS ™

# V-BANK

## Dual Deck Multi-Format DVD/HARD Drive System
## with DVD/AVI/Mp3/CD+G Ripper

## o w n e r ' s   m a n u a l

# Table of Contents

# FCC Information

**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 this 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 satisfactory 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 ensure that the apparatus is indeed fully void of 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 vibration, dust, moisture or cold. Avoid sources of hum (transformers, v 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.

110V
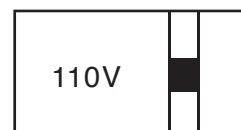
# Listening for a Lifetime

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

# Safety Instructions

## CAUTION
**RISK OF SHOCK**

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.

# Welcome

And thank you for purchasing the **V-BANK** 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 reinforce 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 promos. And while you're there don't forget to check out our Club VocoPro for Karaoke news and events, chat rooms, club directories and even a KJ Service directory!

We look forward to hearing you sound like a PRO, with VocoPro, the singer's ultimate choice.

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### 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
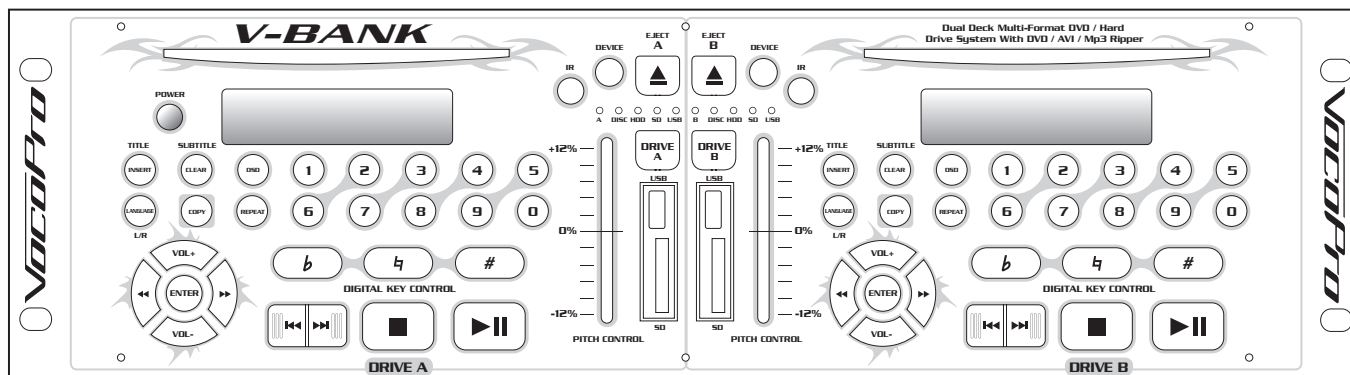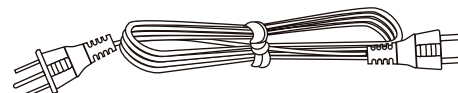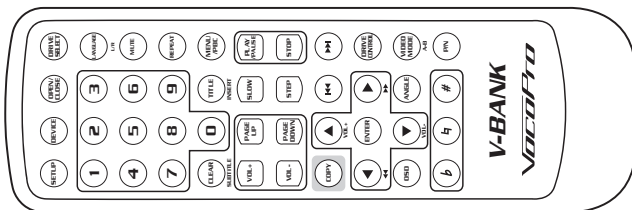
**Model Number**

**Serial Number**

**Date of Purchase**

**Place of Purchase**

# Getting Started

Thank you for purchasing the V-BANK. Take a few moments to look through this manual. Before setting up, please make sure the following items are included.

- V-BANK Unit
- Power Cable
- Remote Control

## Returns and Warranty
In the unlikely event that the V-BANK would need to be shipped for repair, it is recommended that you keep all the product packaging and receipt. For detailed warranty information, please visit www.vocopro.com/warranty_extended.html. To find a VocoPro Authorized Service Center near you, please visit www.vocopro.com/servicecenter.html

Features
- Dual Disc Players Support DVD, CD, CD+G, Photo-CD, Mp3, VCD, and DivX® AVI Formats
- Dual Hard Drives Can Store and Playback Thousands of Files
- Built-in software rips DVD, CD, AVI, Mp3 and CD+G files to internal hard drives.
  (CD+G files are converted to Mp3+G when ripped)
- ±12% Pitch Control Slider
- ±7 Step Digital Key Control
- Dual USB Thumb Drive and SD Card Ports on the Front Panel for Easy Access to Additional Media
- USB Jacks to Access On-Board Hard Drives Directly with Your Computer
- Remote Control
- 110V/240V and NTSC/PAL Compatible for Worldwide Use

Video Out
- S-Video Out
- RCA Video Out
- Component Video Out
- Switched RCA Video Out

Audio Out
- Digital Optical Audio Out
- Digital Coaxial Audio Out
- L/R Mixed RCA Audio Out
- 5.1 CH RCA Audio Out
- Switched Stereo RCA Out

# Mounting the V-BANK

## Installing the unit in a rackcase

Mount the V-BANK into a console or rack with 19" rack rails. It can be mounted using 4 screws. Make sure the holes are aligned evenly and screw them in using an alternating "X" rotation to ensure even tension and alignment.
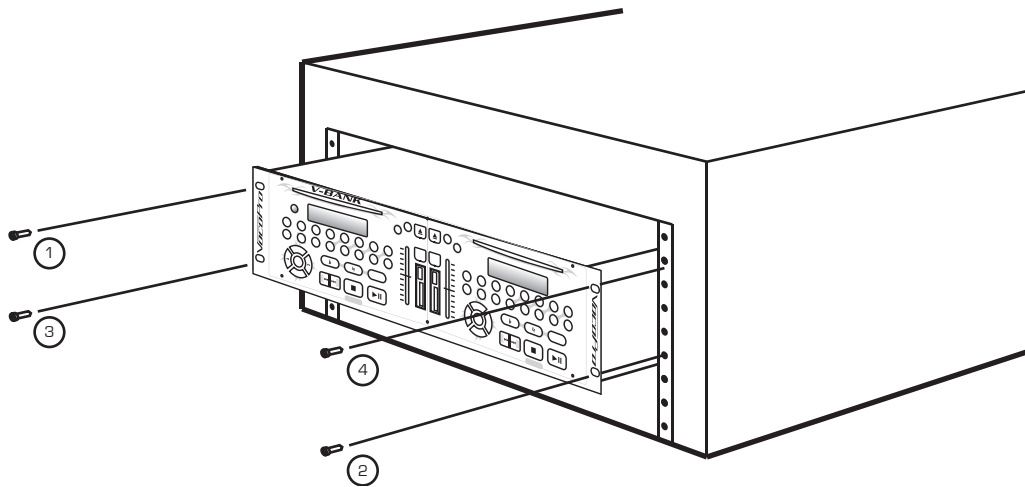


The player will operate properly when the main unit is mounted with the front panel at an angle within 15 degrees of the vertical plane. If the unit is tilted excessively, discs may not load or unload properly.
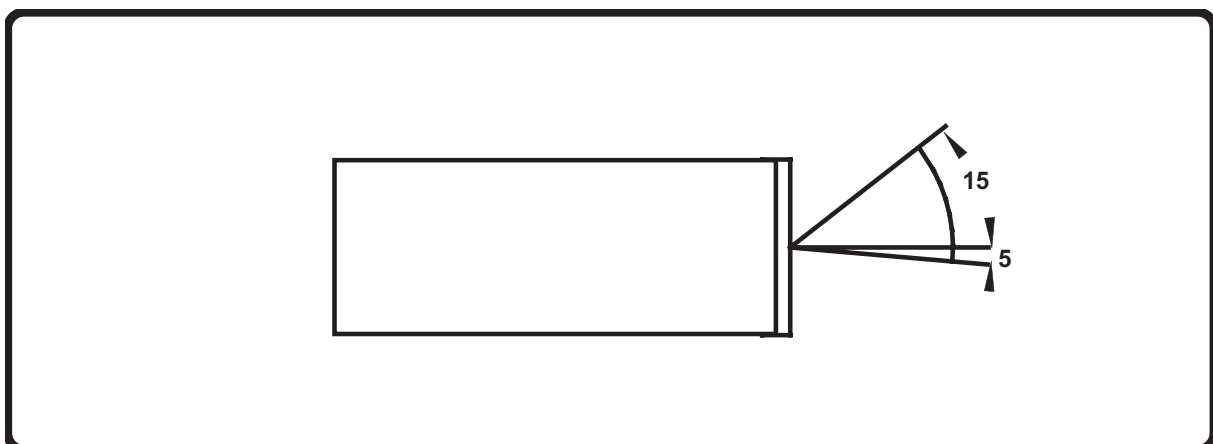
# Getting Connected

Connection 1                                    Connection 2



RECEIVER/AMP                                    RECEIVER/AMP

**Model Number: V-BANK**

DRIVE B          SWITCHED OUT          DRIVE A

AC IN
-110V - 240V 50/60Hz

CAUTION

WARNING: TO REDUCE THE RISK
OF FIRE OR ELECTRIC SHOCK, DO
NOT EXPOSE THIS EQUIPMENT TO
RAIN OR MOISTURE

CENTER  SURROUND R  FRONT R    R    VIDEO  Cr/Pr  DIGITAL          VIDEO                CENTER  SURROUND R  FRONT R    R    VIDEO  Cr/Pr  COAXIAL

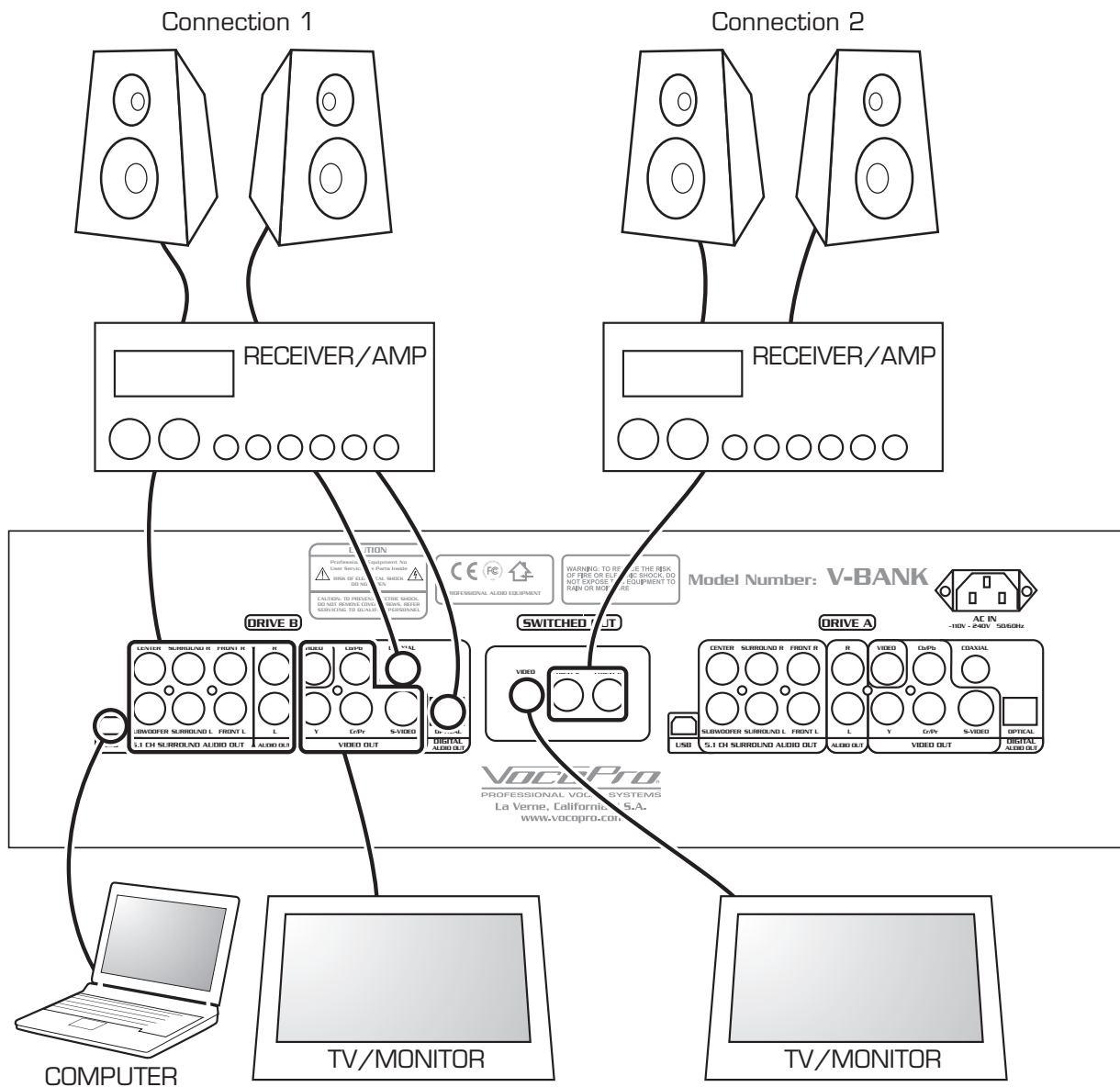SUBWOOFER SURROUND L FRONT L    L    Y    Cr/Pr  S-VIDEO     Co....L          USB   SUBWOOFER SURROUND L FRONT L    L    Y    Cr/Pr  S-VIDEO  OPTICAL
5.1 CH SURROUND AUDIO OUT   AUDIO OUT     VIDEO OUT        DIGITAL              5.1 CH SURROUND AUDIO OUT   AUDIO OUT        VIDEO OUT       DIGITAL
                                                           AUDIO OUT                                                                      AUDIO OUT

VocoPro
PROFESSIONAL VOCAL SYSTEMS
La Verne, California, U.S.A.
www.vocopro.com

COMPUTER              TV/MONITOR                        TV/MONITOR

## Connecting the V-BANK

To connect each drive side individually, use the surround sound or component video outputs, refer to Connection 1 in the diagram above.

To use both drive sides with one receiver/amp and monitor, see Connection 2.

Connecting a computer is optional to access files on the drive, to change file names, add files or delete files. Drive A is only accessible from the Drive A USB port and Drive B is only accessible from the Drive B USB port. Note that the V-BANK must be powered on to connect a computer.
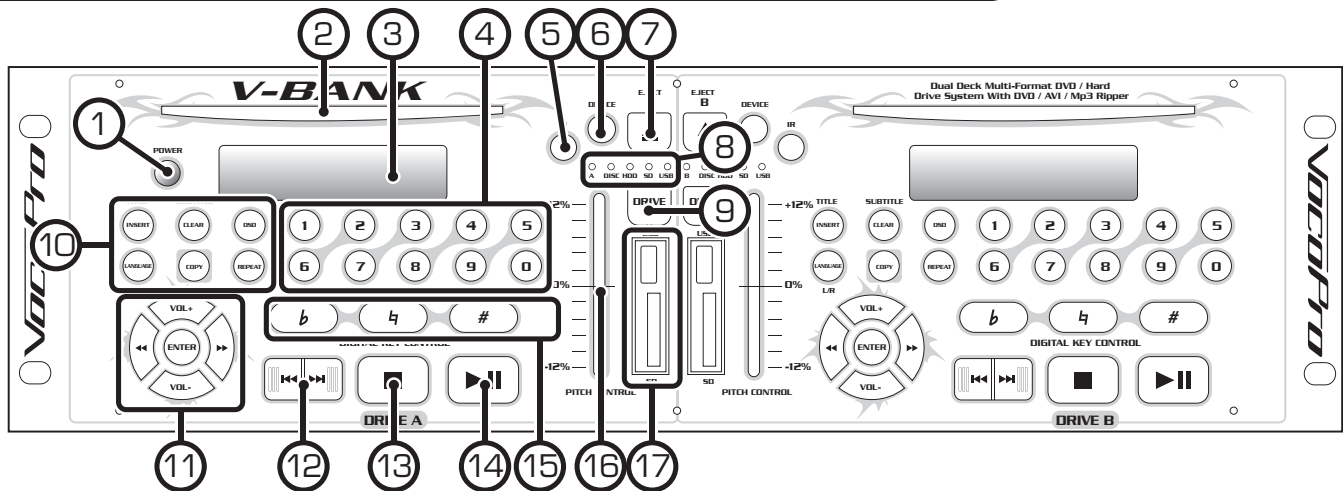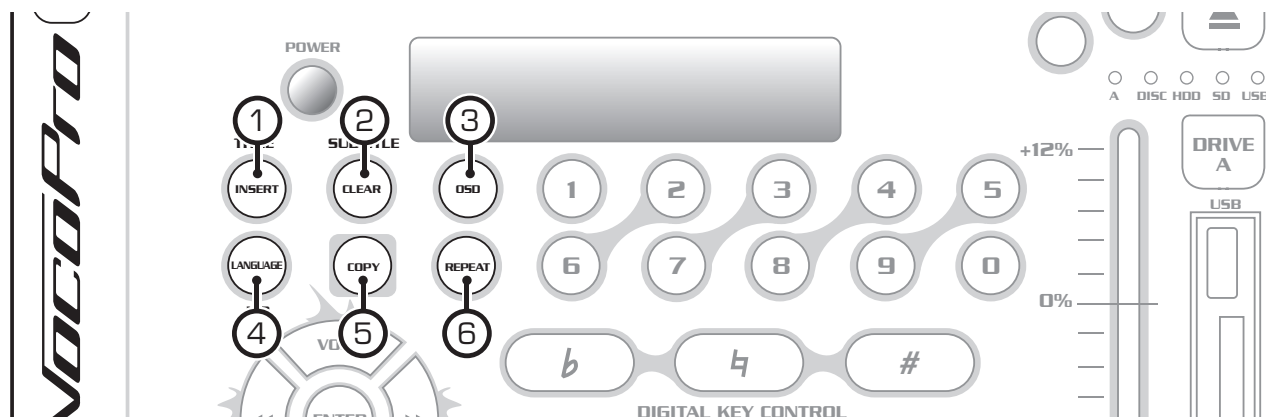
## FRONT PANEL

**1. POWER BUTTON** — Press this button to power the V-BANK on or off.

**2. DISC SLOT** — Insert a disc here.

**3. DISPLAY SCREEN** — Displays graphical information about playback settings and disc/song time.

**4. DIRECT SELECT BUTTONS** — Use these buttons to access tracks by number. While in Pro Mode use these buttons to enter track numbers into a playlist.

**5. IR SENSOR** — Receives signals from the remote control.

**6. DEVICE SELECT BUTTON** — Use this button to switch between media devices. (ie: Disc, HDD, SD, USB)

**7. OPEN/CLOSE** — Use this button to eject a disc from the player.

**8. DEVICE INDICATOR LIGHTS** — These lights indicate which device has been selected.

**9. DRIVE SELECT BUTTON** — This button will select which side will be output through the mixed output on the back panel.

**10. FUNCTION BUTTONS** — See page 11 for descriptions.

**11. NAVIGATION/VOLUME/FWD-REV BUTTONS** — While in a menu, use the arrow buttons and enter button to navigate the menu. While in playback mode, use the up/down arrows to adjust volume, and the left/right arrow buttons to fast-forward and rewind through a track.

**12. PREV/NEXT BUTTONS** — Use these buttons to skip to the next or previous track.

**13. STOP BUTTON** — This button stops playback.

**14. PLAY/PAUSE BUTTON** — This button will play or pause the current track.

**15. KEY CONTROL BUTTONS** — Use these buttons to adjust the key of the music.
  **Sharp (♯)** - Raises the key one step every time the button is pressed.
  **Natural (♮)** - Returns the music to its normal key.
  **Flat (♭)** - Lowers the key one step every time the button is pressed.

**16. PITCH SLIDER** — Use the slider to adjust the pitch. Slide up to increase the pitch or down to decrease the pitch. This allows up to ±12% pitch adjustment.

**17. USB FLASH DRIVE AND SD CARD PORTS** — Insert USB flash drives or SD cards here.
  NOTE: USB flash drives must be formatted with FAT or FAT32 file system.

# Descriptions and Functions

**FRONT PANEL**

**1. INSERT BUTTON** — Use this button to jump to the beginning of the current title when playing a DVD. While playing from the hard drive in Pro Mode, this button will allow tracks to be inserted and moved in a playlist. See the operations section for more information.

**2. CLEAR BUTTON** — Use this button to access subtitles when playing a DVD. Note that not all DVDs have subtitles. While playing from the hard drive in Pro Mode, this button will delete tracks from a playlist. See the operations section for more information.

**3. OSD BUTTON** — Use this button to toggle the on screen display between single elapsed, single remain, total elapsed, total remain, and off while playing a CD or CD+G. When playing a DVD this button will switch between title elapsed/remain, and chapter elapsed/remain.

**4. LANGUAGE BUTTON** — This button will switch between the available language audio tracks during DVD playback. Note that not all DVDs have multiple languages available.
Note: During CD, VCD, CD+G and AVI playback, this button will switch between stereo, mono left and mono right audio output.

**5. COPY BUTTON** — Use this button to copy a file from a disc or USB thumb drive which you own to the on-board hard drive. See the operations section for further instructions.

**6. REPEAT BUTTON** — This button toggles between repeat one, repeat all, and repeat off when playing CDs and CD+Gs. When playing DVDs, this button toggles between chapter repeat and title repeat.
Note: While in PRO-MODE this button will cause a track to restart.
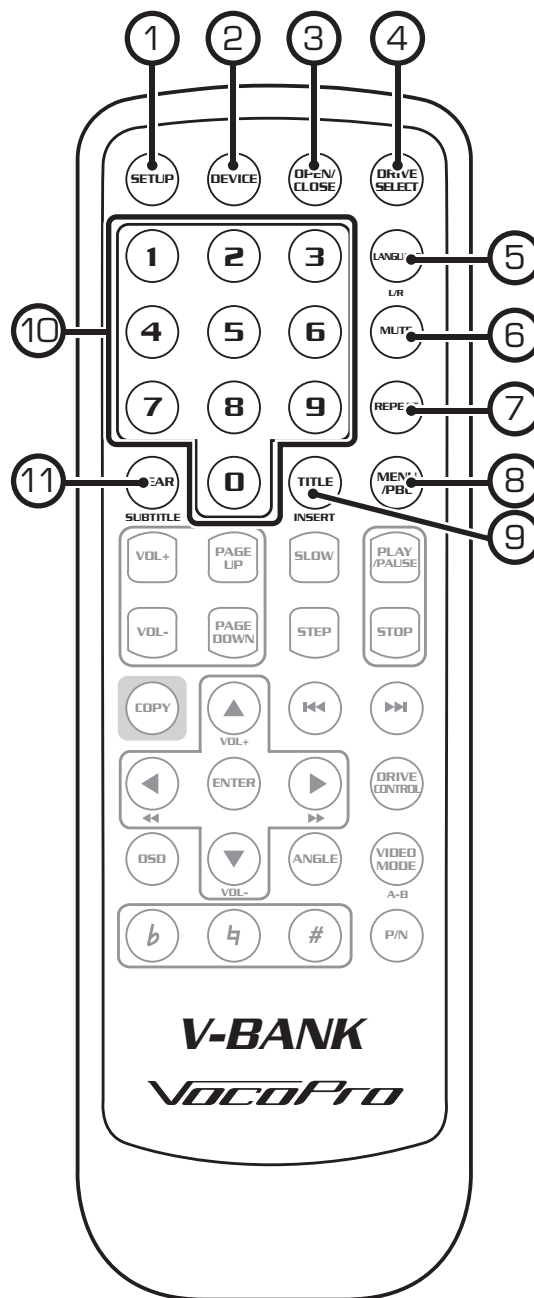
# Descriptions and Functions
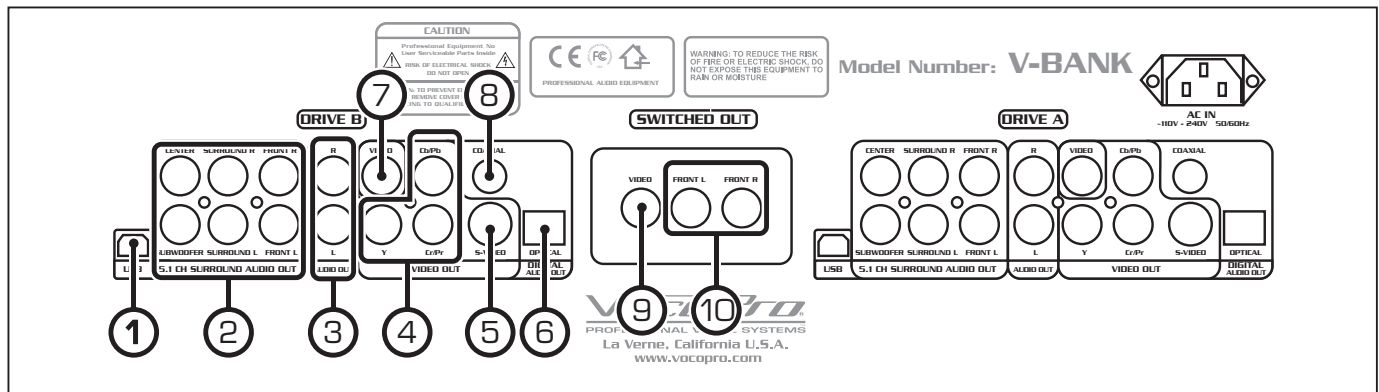


## CONTROLLER REAR PANEL

**1. USB JACK** — Use this jack for direct access to the hard drive using a computer. Note that the V-BANK must be powered on to access the hard drives using a computer.

**2. 5.1 CHANNEL RCA JACKS** — These jacks are for connecting to 5.1 channel ready amplifiers/receivers.

**3. L/R STEREO RCA JACKS** — These jacks output left/right stereo audio.

**4. Y/PB/PR (COMPONENT) VIDEO JACKS** — These jacks output VIDEO to a TV or monitor via COMPONENT VIDEO cables. COMPONENT VIDEO outputs the different color signals (Pr/Pb) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors. The description of the component video output connectors may differ depending on the TV set or monitor (e.g. Pr/Pb Y, Cr/Cb/Y, R-Y/B-Y/Y, etc.). Please refer to the operating instructions of the TV set or monitor for details.

**5. S-VIDEO JACK** — This jack outputs VIDEO to a display device (TV, monitor, etc.) via an S-VIDEO cable. S-VIDEO provides better color separation and better resolution by separating the color and picture signals of a composite video signal.

**6. DIGITAL OPTICAL AUDIO JACK** — This digital out is for connecting devices with an OPTICAL cable. Please make sure to remove the protective cover from this jack prior to connecting an OPTICAL cable. When not using this input, keep the protective cover on to protect it from dust and foreign material.

**7. RCA (COMPOSITE) VIDEO JACK** — This jack outputs VIDEO to TVs or monitors.

**8. DIGITAL COAXIAL AUDIO JACK** — This digital output is for connecting devices with a COAXIAL audio cable.

**9. SWITCHED RCA VIDEO JACK** — This jack outputs video from either side A or side B. Use the Drive A and Drive B buttons on the front panel to select the output.

**10. SWITCHED RCA L/R STEREO AUDIO JACKS** — These jacks output stereo audio from either side A or side B. Use the Drive A and Drive B buttons on the front panel to select the output.

# Descriptions and Functions

**REMOTE CONTROL**

**1. SETUP BUTTON** — Use this button to access the setup menu.

**2. DEVICE BUTTON** — Use this button to switch between Disc, hard drive, USB thumb drive and SD card playback.

**3. OPEN/CLOSE BUTTON** — Use this button to eject a disc from the disc player of the currently selected side.

**4. DRIVE SELECT BUTTON** — Switches between the two sides. Also controls the switched output on the rear panel.

**5. LANGUAGE/LR BUTTON** — This button will switch between the available language audio tracks during DVD playback. Note that not all DVDs have multiple languages available.
Note: During CD, VCD, CD+G and AVI playback, this button will switch between stereo, mono left and mono right audio output.

**6. MUTE BUTTON** — Press to silence audio playback. Video playback is not affected while using the mute feature.

**7. REPEAT BUTTON** — This button toggles between repeat one, repeat all, and repeat off when playing CDs and CD+Gs. When playing DVDs, this button toggles between chapter repeat and title repeat.
Note: While in PRO-MODE this button will cause a track to restart.

**8. MENU/PBC BUTTON** — Use this button to jump to the root menu of DVD discs. Use this button to enable or disable the menu of VCD discs.

**9. TITLE/INSERT BUTTON** — Use this button to jump to the beginning of the current title when playing a DVD. While playing from the hard drive in Pro Mode, this button will allow tracks to be inserted and moved in a playlist. See the operations section for more information.

**10. DIRECT TRACK ACCESS BUTTONS** — Use these buttons to access tracks by number. While in Pro Mode use these buttons to enter track numbers into a playlist.

**11. CLEAR/SUBTITLE BUTTON** — Use this button to access subtitles when playing a DVD. Note that not all DVDs have subtitles. While playing from the hard drive in Pro Mode, this button will delete tracks from a playlist. See the operations section for more information.

*13*

# Descriptions and Functions

## REMOTE CONTROL

1. **PAGE UP/PAGE DOWN BUTTONS** — Use these buttons to navigate through long lists of files on the on-board hard drives or USB thumb drives or SD cards.

2. **SLOW BUTTON** — Toggles between the slow playback modes for DVDs and VCDs.

3. **STEP BUTTON** — Use this button to advance a video one frame at a time. Press play to continue playback.

4. **VOL+/- BUTTONS** — Use these buttons to increase or decrease the volume.

5. **COPY BUTTON** — Use this button to copy a file from a disc, USB thumb drive, or SD card which you own, to the on-board hard drive. See the operations section for further instructions.

6. **NAVIGATION/VOLUME/FWD-REV BUTTONS** — While in a menu, use the arrow buttons and enter button to navigate the menu. While in playback mode, use the up/down arrows to adjust volume, and the left/right arrow buttons to fast-forward and rewind.

7. **OSD BUTTON** — Use this button to toggle the on screen display between single elapsed, single remain, total elapsed, total remain, and off while playing a CD or CD+G. When playing a DVD this button will switch between title elapsed/remain, and chapter elapsed/remain.

8. **KEY CONTROL BUTTONS** — Use these buttons to adjust the key of the music.
   **Sharp** (**#**) - Raises the key one step every time the button is pressed.
   **Natural** (**♮**) - Returns the music to its normal key.
   **Flat** (**♭**) - Lowers the key one step every time the button is pressed.

9. **PLAY/PAUSE BUTTON** — Use this button to play or pause the currently selected track.

10. **STOP BUTTON** — This button will stop a device that is currently playing.

11. **PREVIOUS/NEXT BUTTONS** — Use these buttons to skip to the next track or previous track.

12. **DRIVE CONTROL BUTTON** — This button toggles remote control use of drives A/B without changing the output. For example, if you are listening to a disc playing in DRIVE A, use this button to temporarily switch remote control to DRIVE B to pause a disc that may be playing. Press again to return remote control to DRIVE A.

13. **ANGLE BUTTON** — Use this button to change viewing angles when available during DVD playback. Note that not all DVDs have multiple viewing angles available.

14. **VIDEO MODE/A-B BUTTON** — Use this button to change the video mode between YPBPR and S-Video when no disc is in the disc tray.
    While a disc is playing, use this button to set a loop. Press once to set the in point of the loop, and again to set the out point. The loop will now play. Press the button again to cancel the loop.

15. **P/N BUTTON** — Use this button to switch between NTSC and PAL mode. Use NTSC for North America and PAL for Europe.
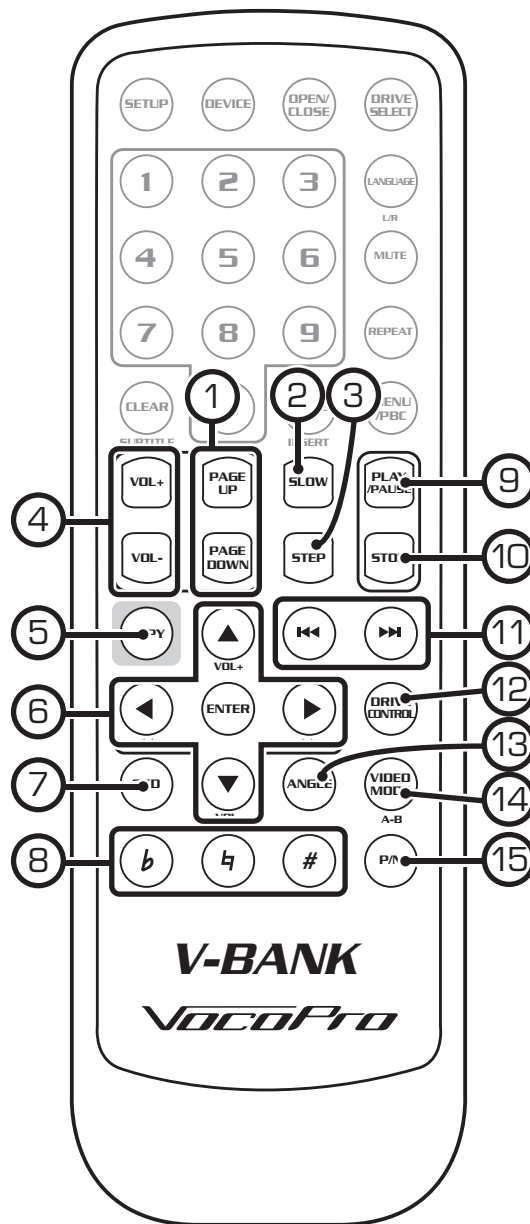
# Operations

## Loading Discs

1. Hold the disc by the edges and place it in the disc slot. The disc will then be pulled into the machine automatically. If there is already a disc in the player, the unit will not allow you to insert another disc.
2. Press the OPEN/CLOSE button on the remote or front panel to eject a disc from the player.

**CAUTION:** Do not place any foreign objects in the disc slot, and do not place more than one disc in at a time. Do not push the disc in manually when the power is off, as this may result in malfunction and damage to the player.

## Playing a Disc

1. Insert a disc into the disc tray.
2. The disc should begin to auto-play.

## Stopping a Disc

1. Press the STOP button on the front panel or remote control to stop a disc while it is playing.

## Pausing a Disc

1. While a disc is playing press the PLAY/PAUSE button on the front panel or remote control to pause the disc.
2. Press the pause/play button again to resume playback.

## Muting a Disc

1. Press the MUTE button on the remote control to silence the disc.
2. Press the MUTE button again to un-mute the disc.

## Skipping Tracks

1. Use the |<</>>| buttons on the front panel or the remote control to skip from one track to another.
2. The >>| button skips forwards to the next track and the |<< button skips back to the previous track.

## Scanning through Tracks

1. Use the < > navigation buttons on the front panel or remote control to scan through tracks.
2. The > button scans forwards through the current track, and the < buttons scans backwards through the current track.

NOTE: Track scanning is not available when playing a CD+G disc.

## Frame Search

1. While the disc is paused, press the Step button to advance forward one frame at a time. Press play to resume playback.

## Adjusting the Disc Music Volume

1. Use the VOL + and VOL - buttons on the front panel or remote control to adjust the music volume.
2. The VOL + button raises the volume and the VOL – button lowers it.

## Using Direct Track Access

The Direct Track Access buttons are the number buttons on the front panel and remote control. These allow you to jump directly to a track or chapter (DVD) by entering its number.
example:
To jump directly to track 9:
1. Press the 9 button and track 9 will begin playing.

## Loop Play

1. Press the A-B button to set the loop start point A, the LOOP indicator will appear on the screen.
2. Press the A-B button to set the loop end point B, after the B point is set, the playback will enter the loop play from A to B repeatedly.
3. Press the A-B button again, the loop play function is canceled.

## Digital Key Control

Digital Key Control allows you to raise and lower the key of the music to fit any singer's vocal range. Use the Key Control buttons on the front panel or remote control to change the key:

- Sharp (♯) - Raises the key one step every time the button is pressed.
- Natural (♮) - Returns the music to its normal key.
- Flat (♭) - Lowers the key one step every time the button is pressed.

## Using the Pitch Slider

Use the slider to adjust the CD pitch. The Pitch Slider allows up to ±12% pitch adjustment.
1. Slide up to increase the pitch or down to decrease the pitch.

# Operations

## Copying Files to the Internal Hard Drive

You can rip files from either disc or USB sources. You can rip, convert and store audio CD and CD+G tracks to Mp3 files. You can also copy AVI, non-copyprotected VOB, Mp3 and JPG files to the hard drives for playback as well.

To rip/copy from a disc:
1. Insert disc into the drive you want to copy to.
2. Press the COPY button on remote control or front panel of the drive you are copying to.
3. At the "Copy Data File?" screen, press the ENTER key.
4. At the "Please Select Source" screen, press number pad button 1.
5. At the file list screen, use the (UP/DOWN) buttons to highlight a track you want to be copied, then press ENTER to add track to copy list.
NOTE: The 5-digit number that appears to the right of each track is going to be the filename of the track once it is copied to the hard drive.
6. When you are finished adding tracks, press the (LEFT) button leave the file list and access the ADD/ADD ALL/CANCEL buttons.
7. Highlight ADD and press ENTER to start the copy process. To cancel the copy process, press STOP.
8. When the copy process is completed, the disc is ejected and the "Finished" screen appears. To copy from another disc, insert that disc and press ENTER, otherwise press STOP to leave copy mode and reboot the unit.
NOTE: A reboot is required when leaving copy mode in order to update the database.

To copy from a USB drive:
1. Connect USB drive to the port on the drive you want to copy to.
2. Press the COPY button on remote control or front panel of the drive you are copying to.
3. At the "Copy Data File?" screen, press the ENTER key.
4. At the "Please Select Source" screen, press number pad button 2.
5. At the file list screen, use the (UP/DOWN) buttons to highlight a track you want to be copied, then press ENTER to add track to copy list.
6. NOTE: The 5-digit number that appears to the right of each track is going to be the filename of the track once it is copied to the hard drive.
7. When you are finished adding tracks, press the (LEFT) button leave the file list and access the ADD/ADD ALL/CANCEL buttons.
8. Highlight ADD and press ENTER to start the copy process. To cancel the copy process, press STOP.
9. When the copy process is completed, the disc is ejected and the "Finished" screen appears. To copy from another disc, insert that disc and press ENTER, otherwise press STOP to leave copy mode and reboot the unit.
NOTE: A reboot is required when leaving copy mode in order to update the database.

## Ripping CD+Gs to an Internal Hard Drive

You can rip tracks from CD+G discs, and store them on the internal hard drives in MP3+G format. When a track is ripped, two files will be generated; an .MP3 file, and a .CDG file. These files will have the same filename with different extensions. NOTE: If you decide to rename a ripped MP3+G track, make sure you rename BOTH files with the same name.

NOTE: MP3+G tracks can only be played in PRO-MODE.

NOTE: If the disc being ripped is dirty or scratched, the copy process will stop and "DISC ERROR" will be displayed onscreen. Press STOP to exit and reboot the player.

# Operations

## Using Pro Mode

In Setup Menu/Preferences/SmartNavi select No Menu. This turns off the navigation menu, and enables Pro Mode. In this mode you can only select tracks via the direct access number pad on the remote or front panel.

To create a playlist:

1. Enter the five digit number of the track. (ex: 00042) The screen will display FIND. Press Enter to insert the song in the playlist.
2. If the number is invalid (a track number that does not exist on the drive), the screen will display INVALID. Press the clear button to clear the invalid number and try again.
3. Repeat the process to build the playlist.
4. The first track in the playlist will begin playback as soon as it is entered.

A track can be inserted into the playlist.

To insert a track:

1. Use the arrow buttons to highlight the track you want to insert the new track before.
2. Enter the five digit number of the song you want, then press insert. The new track will be inserted before the highlighted track.

A track can be moved to another space in the playlist.

To move a track:

1. Use the arrow buttons to highlight the track you want to move.
2. Press the insert button to select the track, the number will turn red.
3. Use the arrow buttons to highlight the track you want the selected track to be inserted before.
4. Press the insert button again, and the selected track will be placed before the highlighted track.

A track can be removed from the playlist.

To remove a track:

1. Use the arrow buttons to highlight the track you want to remove.
2. Use the clear button to remove the track.

## Connecting the V-BANK to your PC

Connect the V-BANK HDDs to your PC for accessing, organizing, renaming and deleting files. Each HDD must be connected separately using USB cables.

NOTE: If connecting to a desktop PC, avoid connecting to front-mounted USB ports.

1. Power OFF the V-BANK.
2. Using USB cable(s), connect one end of the USB cable to the one of the USB ports on the back of the V-BANK, and connect the other end of the USB cable to the USB port on your PC.
3. Repeat for the second HDD if you are connecting both.
4. Power ON the V-BANK.

When the V-BANK is powered on, the HDDs will appear as devices ready to use in "My Computer."  NOTE: If using an operating system other than Windows, please refer to instructions on connecting USB HDDs.

# Setup Menu

## General

**PIC Mode:** Auto - Film - Video - Smart - Supersmart
    Auto: Sets the screen resolution automatically. (Recommended)
    Film: Sets the resolution for film.
    Video: Sets the resolution for video.
    Smart: Sets the resolution for progressive video.
    Supersmart: Sets the resolution for hi-res progressive video.

**Angle Mark:** On - Off
    On: The angle mark will appear on screen when multiple angles are available for viewing (DVD Only).
    Off: The angle mark will not appear.

**OSD Lang:** English
    Selects the language for the OSD menu. The only available language is English.

**Captions:** On - Off
    On: Subtitles will appear onscreen when DVD subtitles are available and selected.
    Off: Subtitles will not be displayed.

**Screen Saver:** On - Off
    On: The screen saver will appear after a period of screen/function inactivity.
    Off: The screen saver is off, and will not appear.

**Single Mode:** On - Off
    On: While in Pro Mode, playback will stop after a song has finished playing.
    Off: While in Pro Mode, the next song will begin playing after the previous song has finished.

# Setup Menu

## Speaker Setup:

**Downmix:** LT/RT - Stereo - Off
    LT/RT: Select when connecting to a Dolby Digital amplifier.
    Stereo: Select when connecting to a 2-channel stereo amplifier/mixer.
    Off: Select when using the 5.1 channel outputs on the rear panel.

**Note:** Karaoke mode must be set to Off to access these menu items.

**Center:** On - Off
    On: Select if you have a center speaker connected.
    Off: Select if you do have a center speaker connected. (If set to off, center channel audio will be routed to the front speakers.)

**Rear:** On - Off
    On: Select if you have a center speaker connected.
    Off: Select if you do not have rear speakers connected.

**Subwoofer:** On - Off
    On/Off: Select On if you have a subwoofer connected.

**Center Delay:** 5ms - Off
    Select the amount of time delay for the center speaker.

**Rear Delay:** 15ms - Off
    Select the amount of time delay for the rear speakers.

**Test tone:** On - Off
    On: When set to on, the unit will generate a test tone to all 5.1 channels for speaker connectivity troubleshooting.
    Off: Disables the test tone.

# Setup Menu

## Audio

**Spdif Output:** Spdif Off - Spdif/Raw - Spdif/Pcm
   SPDIF Off: Select to disable SPDIF output.
   SPDIF/Raw: Select when connecting to a 5.1 channel digital amplifier (DTS/Dolby Movie).
   SPDIF/PCD: Select when connecting to a 2-channel digital amplifier (Audio CD).

**OP Mode:** Line Out - RF Remod
   Line Out: Normal audio output level.
   RF Remod: Boosts the audio output level.

**Dual Mono:** Stereo - L Mono - R Mono - Mix Mono
   Stereo: Normal Stereo mode.
   L Mono: Outputs the left channel to the left and right outputs.
   R Mono: Outputs the left channel to the left and right outputs.
   Mix Mono: Outputs both the left and right channel to the left and right outputs.

**Compression:** Off — Full
   Select level of dynamic range compression to be used (Off for no compression; Full for maximum compression).

**Pro Logic:** Off - On - Auto
   Off: Select when NOT playing Pro-Logic disc media.
   On: Select when playing Pro-Logic disc media.
   Auto: Select to have the unit auto-detect and enable Pro-Logic when disc media is Pro-Logic encoded.

**Lpcm Out:** 48K - 96K
   Select the sampling rate that matches your disc media and amplifier.

# Setup Menu

## Karaoke Setup

**Karaoke Mode:** Off - Karaoke
> Off: Disables the pitch and key control functions. Enables the 5.1 menu.
> Karaoke: Enables key control and pitch control. Disables the 5.1 menu.

## Preferences

**Note:** The player must be stopped to access this menu.

**TV Display:** Normal/Ps - Normal/Lb - Wide
> Normal/PS: Select to view the standard 4:3 picture or the cut standard 4:3 picture.
> Normal/LB: Select to view 4:3 standard with letterbox for a full wide-screen mode.
> Wide: Select to view widescreen picture with a widescreen capable TV.

**Tv Type:** Multi - NTSC - PAL
> This setting switches between NTSC, PAL and AUTO (Multi. System). Set to NTSC for the United States and Asia, and PAL for Europe. If you are uncertain what TV type you have, set to AUTO (Multi. System).

**Video Out:** S-VIDEO - YUV - RGB
> Set to S-VIDEO if you will be connecting to a TV via the S-VIDEO output. Select either YUV or RGB if you will be connecting to a TV via the YPbPr (Component) outputs. See your TV user's manual to determine which setting to use.

**Audio:** English - French - Spanish - Chinese - Japanese
> Switches the language of the audio of a DVD. Note that not all DVD's have all languages available.

**Subtitle:** English - French - Spanish - Chinese - Japanese - Off
> Switches the language of the subtitles of a DVD. Note that not all DVD's have all languages available.

**Parental:** 1 — 8
> Set the parental rating for DVDs.

**Password:** Change
> To change the password, enter the old password, enter the new password, and confirm the new password, and then press enter. The factory default password is: 3308

**Default:** Reset
> Restores all of the default factory presets.

**SmartNavi:** No Menu - With Menu
> No Menu: Switches to Pro Mode. No navigation menu will be present.
> With Menu: Turns on the navigation menu.

# Specifications

| | | |
|---|---|---|
| Compatibility | | DVD, VCD, CD, CD+G, MP3, MP4, JPEG, |
| Laser Wavelength | | 780/650nm |
| Video System | | NTSC/PAL |
| Audio Response | | 20Hz ~ 20kHz ±2.5dB |
| Audio Signal/Noise Ratio | | ≥ 83dB |
| Audio Distortion + Noise | | ≤ -75dB(1kHz) |
| Channel Separation | | ≥ 70dB(1kHz) |
| Dynamic Range | | ≥ 85dB(1kHz) |
| Audio output | Analog audio | Output level: 1.5V ±0.1<br>Load impedance: 10K |
| | Digital audio | Optical: -21dBm ~ -15dBm |
| Video output | Video output | Output level:1Vp-p ±0.2, Load impedance: 75Ω imbalance, negative polarity |
| | S-video output | Output level: Brightness (Y)1Vp-p ; Chroma: (C)0.286Vp-p; Load impedance: 75Ω |
| Power Supply | | AC 110~ 240V, 50/60Hz |
| Power Consumption | | ≤ 60W |
| Dimensions | | 480mm x 132mm x 293mm (18.9in x 5.2in x 9.4in) |
| Operating Temperature | | -2 °C ~ +40 °C (28.4 °F ~ 104 °F) |
| Weight | | 8Kg (17.6 lbs) |

Note: Specifications are subject to change without notice.

# Troubleshooting

**No picture**
- Make sure everything is connected firmly and properly.
- Make sure there are no defective cables.
- Make sure all of your components are turned on.
- Make sure all of the components (amp, mixer, TV, etc.) are set to the proper inputs.
- Make sure the TV or monitor is working correctly.
- Make sure the correct drive is selected for output (DRIVE A/B).

**Remote control does not work**
- Make sure the batteries are inserted, inserted correctly, and not out of power.
- Point the remote control directly at the remote sensor on the machine.
- Move closer to the machine.
- Ensure the remote is set to control the drive you are attempting to control.

**There is no power**
- Make sure the power cord is firmly connected to the power outlet.
- If using a power strip/surge-protector, make sure that it is plugged in and switched on.

**There is no sound**
- Make sure everything is connected firmly and properly.
- Make sure there are no defective cables.
- Make sure all of your components are turned on.
- Make sure all of the components (amp, mixer, TV, etc.) are set to the proper inputs.

**The disc does not play/copy**
- Make sure the disc is inserted correctly (label-side up).
- Make sure the disc is clean and not scratched.
- If using a CD-R/RW, try using a different brand as some brands might not be compatible.
- Clean the CD lens using a CD lens cleaner.
- It is not a supported format.

**The disc is skipping**
- Make sure the disc is clean and not scratched.
- If the disc is a CD+G, make sure the player is not bumped or shaken, as the anti-skip feature does not function with CD+Gs.

**The picture is unclear**
- Make sure the disc is not dirty or damaged.
- Make sure that the TV TYPE (N/P button on the remote) is set correctly:
  NTSC: In North America, Japan and many other Asian countries
  PAL: In Europe
- Try restarting the V-BANK.

**USB thumb drive is not recognized**
- Make sure the USB thumb drive is formatted to FAT or FAT32 file system. Other file systems such as NTFS are not supported.

# VocoPro

## PROFESSIONAL VOCAL SYSTEMS