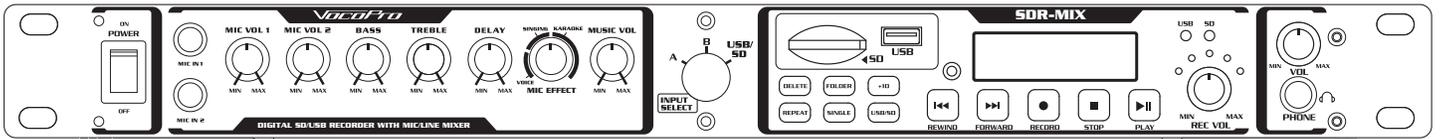


VocoPro[®]

PROFESSIONAL VOCAL SYSTEMS[™]



SDR-MIX

Digital SD/USB Recorder with Mic/Line Mixer

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

Table of Contents

| | |
|--------------------------------------|-------|
| Safety Instructions | 3 |
| FCC Information | 4 |
| Welcome. | 5 |
| Listening for a Lifetime | 6 |
| Before Getting Started | 7 |
| Getting Started | 8 |
| Getting Connected | 9 |
| Descriptions and Functions | 10–11 |
| Front Panel. | 10 |
| Rear Panel | 11 |
| LED Display. | 11 |
| Operations. | 12–14 |
| Inserting SD/USB Card | 12 |
| Adjusting Record Level | 13 |
| Recording/Navigation/Files | 14 |
| Commonly Asked Questions | 15 |

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.

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.

CALIFORNIA PROP 65 WARNING

WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.vocopro.com/prop65

CAUTION:

READ THIS BEFORE OPERATING YOUR UNIT

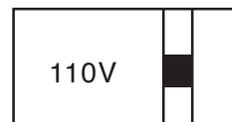
1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent 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.





Welcome

And thank you for purchasing the **SDR-MIX** 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.

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 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

Before Getting Started

INTRODUCTION

Thank you for purchasing the SDR-MIX Digital SD/USB Recorder with Mic/Line Mixer. The SDR-MIX offers convenient real-time digital audio recording to both SD card and USB drive. Its user-friendly operation makes it an ideal recording platform for DJ mixes, band rehearsals, sermons, board meetings, and more. With a full set of playback controls, the SDR-MIX can also function as a SD/USB player with separate and mixed audio outputs. Its slim rack-mountable construction will fit neatly into standard rack cases.

FEATURES

- Records 192kpbs audio files directly to SD card or USB drive via RCA or XLR line-in jacks
- Compatible with SD/SDHC cards and USB drives up to 32GB
- Record level control and record level LEDs for precise level control
- Delete recorded files directly from recorder
- Full-featured playback with single and repeat playback modes
- Individual RCA/XLR input/output jacks
- Mixed RCA output jacks with toggle switch
- Back-lit buttons for use in low-light areas
- 1/4" headphone jack with volume control
- Slim 1RU chassis
- 110V-220V compatible

SPECIFICATIONS

- Channels..... 2 (stereo)
- Recording Format..... MP3, 192 Kbps;
- Recording Media..... SD (64 MB-2GB) SDHC (4GB-32GB) Any supported FAT-USB drive
- USB compatibility..... USB 1.0, 1.1, 2.0
- Sampling Rate..... 44.1kHz/48 kHz 16 BIT
- Dynamic Range..... ≥ 75 dB
- THD+N..... 1%
- Freq Response..... 20Hz – 18KHz
- Input Impedance..... 10K Ω
- Nominal Input Levels..... ≥ 1.5 V
- Output Impedance..... 32~64 OHM STEREO
- Power Source..... 500mA DC 5V

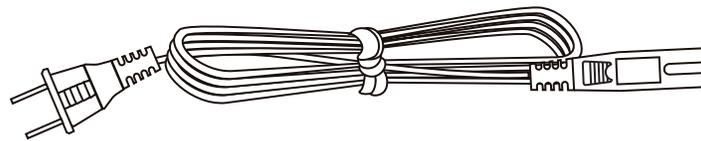
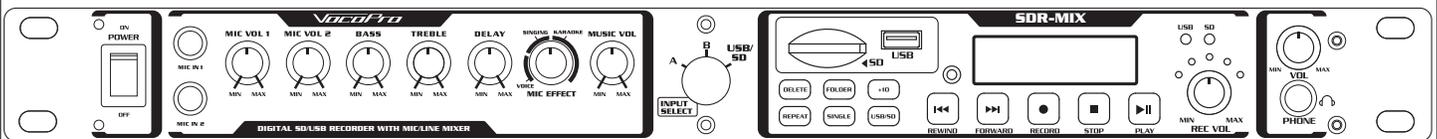
Getting Started

UNPACKING

The SDR-MIX has been inspected and tested prior to being shipped. During unpacking, carefully check that you have received all the required components. This is also the time to check the main unit for damage. If any damage is noticed, promptly report this to your shipping carrier. Save the shipping boxes and all packaging materials in case the unit needs to be shipped for service.

WHAT'S IN THE BOX

- SDR-MIX
- Power Adapter



Getting Connected

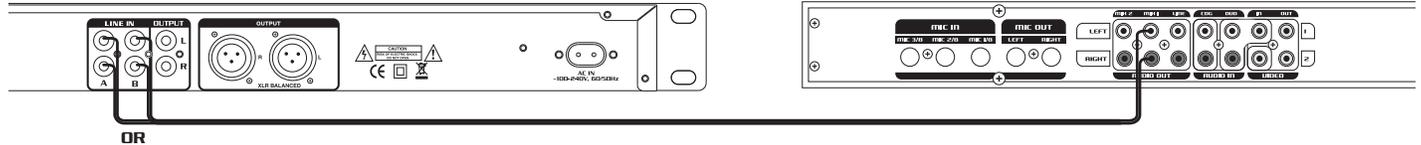
The SDR-MIX can record audio signals from any device with RCA connections. The audio output from the SDR-MIX can be taken to a mixer/speaker system for playback with either RCA or XLR connections. Follow the instructions for making the connections listed below.

INPUT:

CONNECTING A MIXER

Connect a set of RED/WHITE RCA cables from an available RCA output on the mixer to the RCA LINE Input, either A or B, on the back of the SDR-MIX.

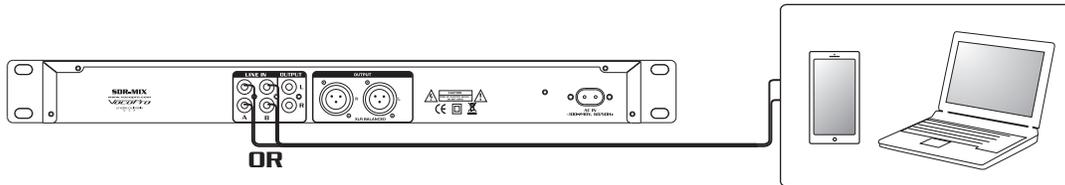
Change Input Select knob to the appropriate setting.



CONNECTING A SMARTPHONE OR COMPUTER

Connect an 1/8"-to-RCA cable from the 1/8" Headphone Output to the RCA LINE Input, either A or B, on the back of the SDR-MIX.

Change the Input knob to the appropriate setting.

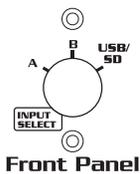


OUTPUT:

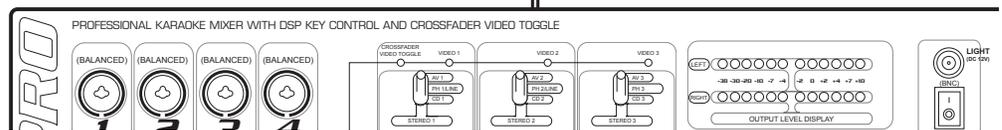
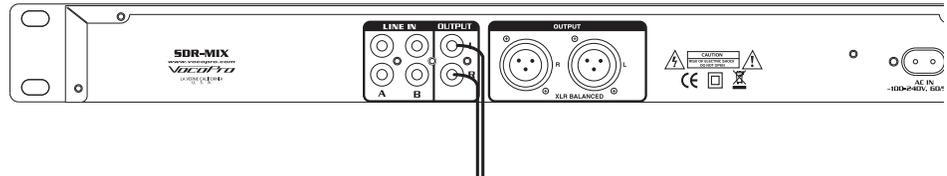
CONNECTING WITH THE RCA OUTPUTS

Connect a set of RED/WHITE RCA Cables from the RCA Output on the back of the SDR-MIX to an available RCA Input on a mixer or speaker system.

Set dial to desired output



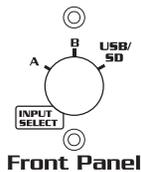
Front Panel



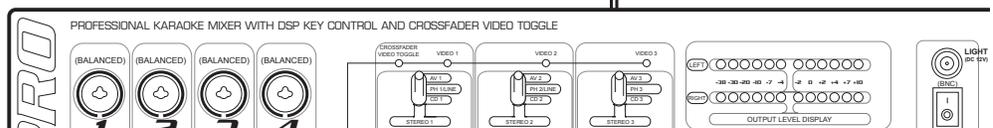
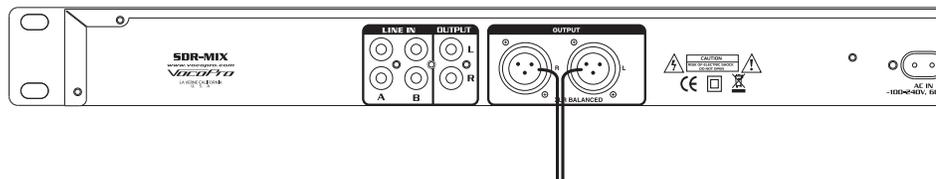
CONNECTING WITH THE XLR OUTPUTS

Connect a pair of balanced XLR cables from the XLR Outputs on the back of the SDR-MIX to a pair of available XLR inputs on a mixer or speaker system.

Set dial to desired output



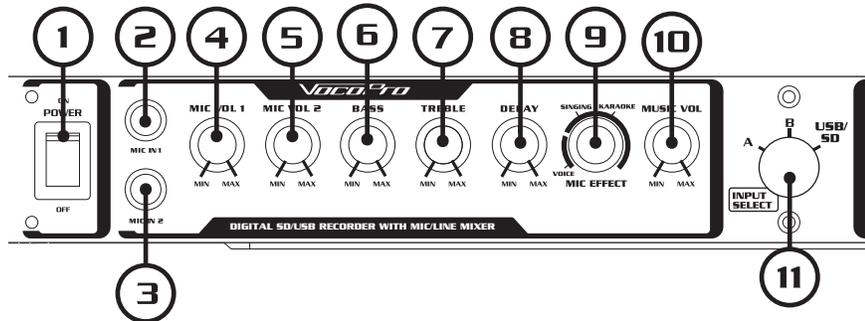
Front Panel



Descriptions and Functions

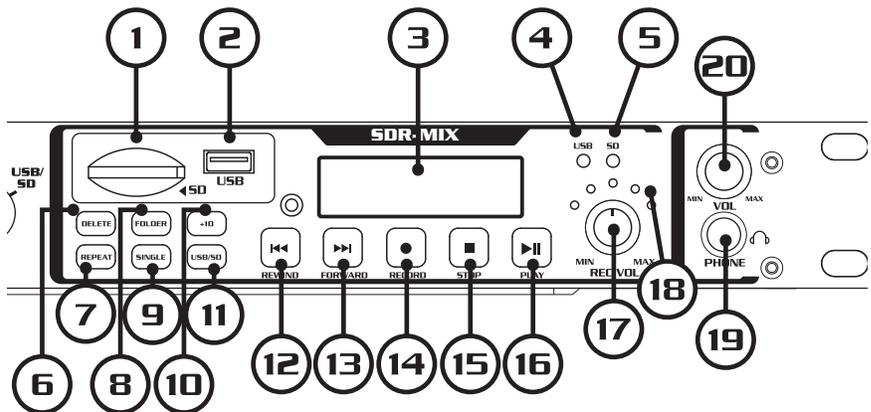
FRONT PANEL - LEFT

1. **Power** - Use this button to turn the SDR-MIX ON/OFF.
2. **Mic 1 Input** - Connect a 1/4" unbalanced microphone here.
3. **Mic 2 Input** - Connect a 1/4" unbalanced microphone here.
4. **Mic 1 Volume** - This knob alters the Mic 1 input volume.
5. **Mic 2 Volume** - This knob alters the Mic 2 input volume.
6. **Bass** - This knob alters the low-frequency response of the input music signal.
7. **Treble** - This knob alters the mid-level frequency response of the input music signal.
8. **Delay** - This knob alters the length of pauses between Echo repeats.
9. **Mic Effect** - This knob alters the amount of effects applied to both microphone inputs.
10. **Music Volume** - This knob alters the volume of the input music source.
11. **Input Select** - This knob selects which input audio will be present in the recording and from the output jacks.



FRONT PANEL - RIGHT

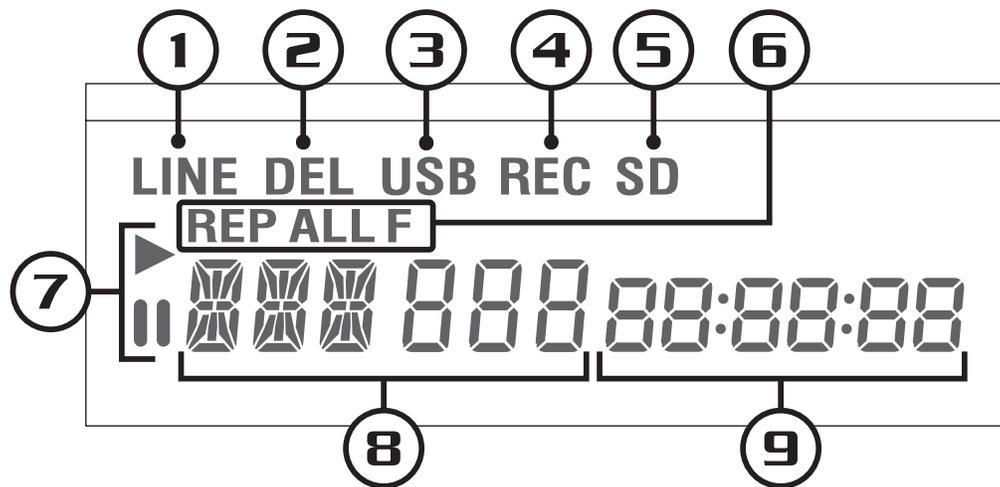
1. **SD Card Slot** - Insert SD card for recording and playback; up to 32GB in size.
2. **USB Port** - Insert USB thumb-drive for recording and playback.
3. **LCD Display** - Displays system information, current operations and settings.
4. **USB LED** - Indicates USB is selected for playback/recording.
5. **SD LED** - Indicates SD is selected for playback/recording.
6. **Delete Button** - Use this button to delete a file.
7. **Repeat Button** - Use this button to enter repeat playback mode.
8. **Folder Button** - Use this button to toggle through different folders.
9. **Single Button** - Use this button to enter single playback mode.
10. **+10 Button** - Use this button to advance 10 tracks at a time.
11. **USB/SD Button** - Use this button to toggle between the USB and SD inputs.
12. **Previous** - Use this button to skip to the previous track or scan reverse through the current track.
13. **Next** - Use this button to skip to the next track or scan forward through the current track.
14. **Record** - Use this button to enter record mode and start recording. During recording, this button can be used to pause playback. (see Operations section for instructions on recording).
15. **Stop** - Use this button to stop recording/playback.
16. **Play/Pause** - Use this button to start or pause playback.
17. **Rec Level Knob** - Use this knob to increase/decrease the recording level.
18. **Rec Level LEDs** - Use these LEDs to monitor and achieve an optimal recording level.
19. **1/4" Headphone Jack** - Connect headphones to here. This jack monitors the output set by the output switch.
20. **Headphone Volume** - Use this knob to increase/decrease the volume to connected headphones.



Descriptions and Functions

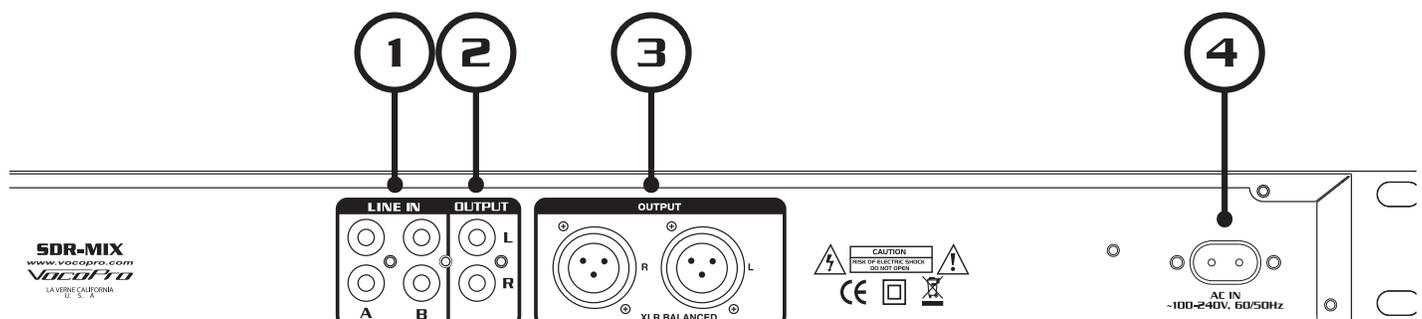
LCD WINDOW

- Line** - Indicates the SDR-MIX is set to record from the line-in jacks.
- DEL** - Flashes in conjunction with "FILE" when deleting a file.
- USB** - Indicates that a USB device is selected for playback/recording.
- REC** - Indicates record mode has been initiated or is in progress.
- SD** - Indicates that SD card is inserted for playback for recording.
- REP/ALL/F** - Indicates repeat mode:
 - **REP** - Repeat one
 - **REP ALL** - Repeat all tracks on the SD/USB
 - **REP F** - Repeat all tracks within a folder.
- Play/Pause** - Indicates when playback is in progress or paused.
- Folder** - This section displays the total number of files or current file number. Status messages include: READY, FILE, RECEND, FILE.
- Track Timer** - Displays the track time during recording or playback in hours:minutes:seconds format.



REAR PANEL

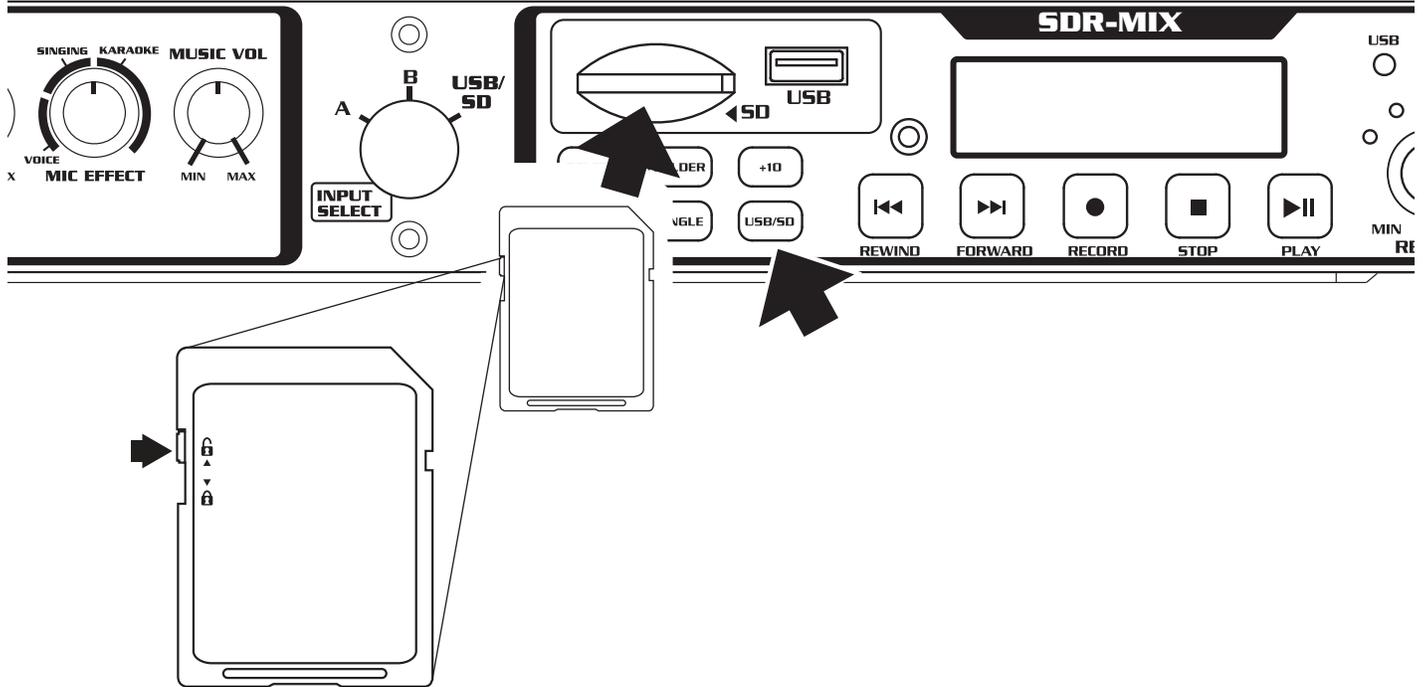
- RCA In Jacks** - Connect the audio output from your audio source to these jacks using RCA audio cables.
- RCA Out Jacks** - Connect the audio output from these jacks to RCA audio inputs on external mixers, amplifiers, or other devices.
- XLR Out Jacks** - Connect the audio output from these jacks to the XLR jacks on external mixers, amplifiers or other devices.
- Power** - Supplied power cable connects here.



Operations

INSERTING AN SD CARD

1. Ensure that the lock tab on the SD card is NOT set to lock.
2. Insert the SD card right side up, and push it in until it clicks.
3. Use the USB/SD button to select SD.



4. Remove SD card by pushing the card forward until it clicks and pushes out.

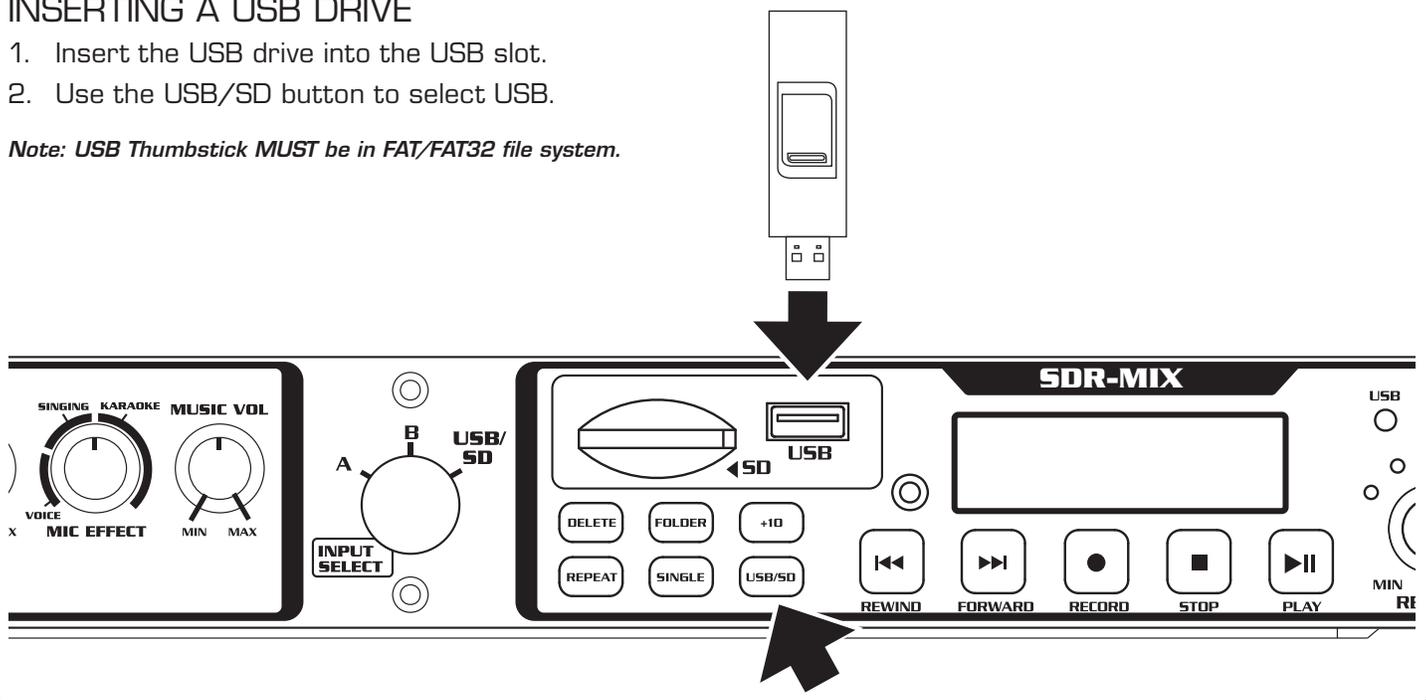
Note: the SDR-MIX cannot accept cards larger than 32GB.

Note: SD Card MUST be in FAT/FAT32 file system.

INSERTING A USB DRIVE

1. Insert the USB drive into the USB slot.
2. Use the USB/SD button to select USB.

Note: USB Thumbstick MUST be in FAT/FAT32 file system.

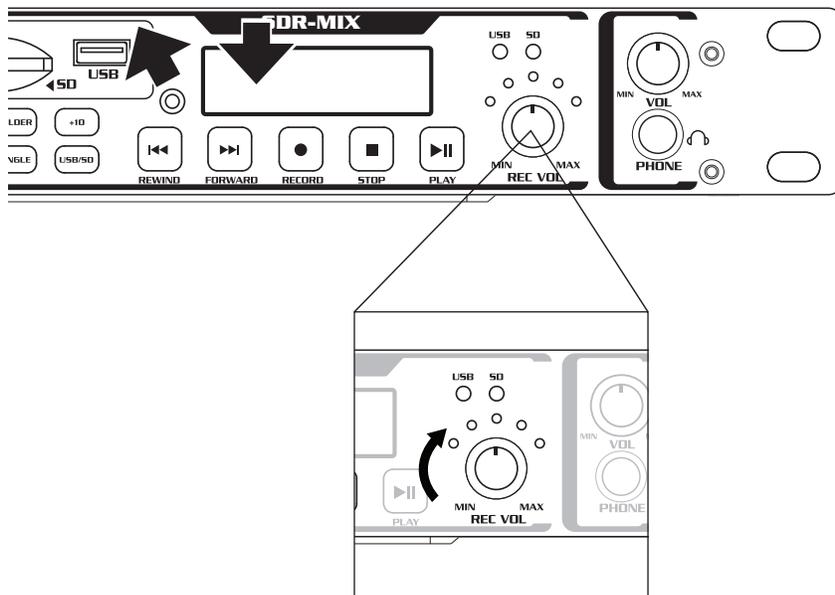


Operations

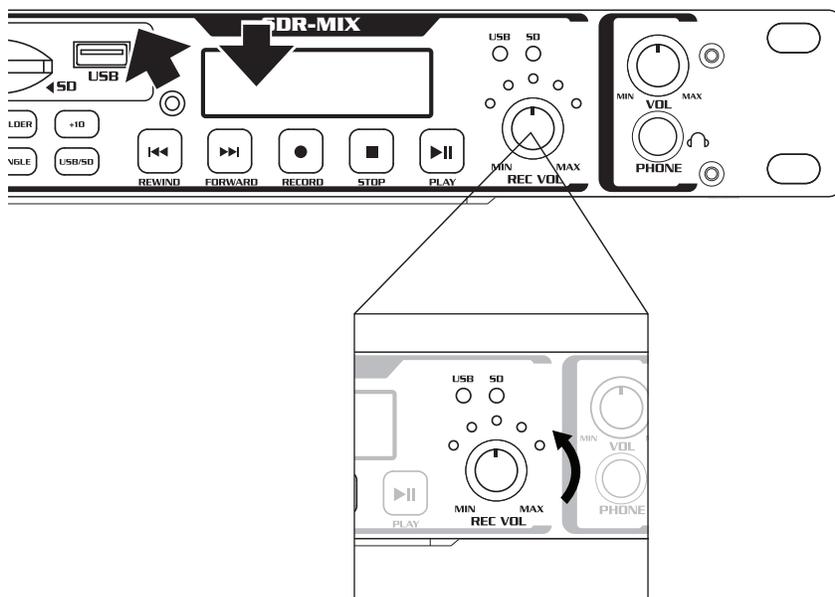
ADJUSTING THE RECORDING LEVEL

In order to get a good recording, it is important that the microphone and music levels are matched such that one is not overpowering the other. Before recording, set your audio levels.

1. Start the music on the source player.
2. With the source playing, adjust the Record Level knob until the YELLOW REC LED begins to blink.
3. Plug in a mic and speak into it.
4. Adjust the appropriate Mic Volume knob until both Mic and Music is balanced.



5. Once Mic and Music are balanced, reduce the Record Level knob until the REC LEDs are constantly green. This indicates optimal recording level has been achieved.



192kbps 1 min = 4.3mb
8gb = 1860 min or 31 hours

Operations

RECORDING

1. Insert an SD card or USB drive to be recorded to.
2. Press the USB/SD button to select the device.
3. Set the recording level (see Adjusting the Recording Level).
4. Press the RECORD button. When the display reads READY, it is ready to record.
5. Press the RECORD button a second time to start recording.
6. Press STOP to stop the recording, or press RECORD a third time to Pause the recording.



NAVIGATING FILES AND FOLDERS

The LCD window displays folder/file information. The left three digits indicate the folder number (or Rec for record folder). The right three digits indicate the file number. When a USB drive or SD card is first inserted, total folders and files will be displayed.

1. To navigate folders press the Folder button. Each time Folder is pressed, it will enter the next folder. When the last folder is reached it will cycle back to folder 001. i.e. FOLDER 001, 002, 003, 004, 005, REC, 001, etc.



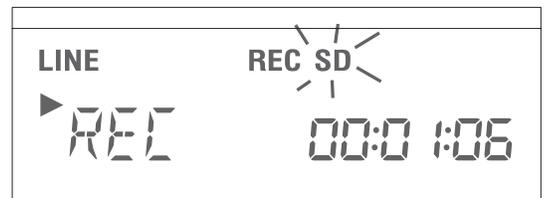
RECORD FOLDER

The SDR-MIX stores all recorded files in a folder called RECORD. When a new SD card/USB drive is inserted, this folder will be created automatically during the first recording process. All recorded files will be located in the following folder: ROOT/RECORD/LINE_IN

RECORDED FILES

The files are named using the following naming convention: FILE_001/MP3

Once the file is recorded, it can be renamed. All recorded files are in 44Khz Stereo 192 Kbps MP3 format. Note: Files are played back in alpha-numerical order. Renaming a file may affect the order of playback.



DELETING FILES

Files can be deleted directly from an SD card or USB drive.

1. Navigate to the file you want to delete. If you are sure it is the correct file, push play, listen and confirm that it is the file you want to delete.
2. Press the Delete button. The word FILE will begin to blink in the display.
3. Press Delete a second time to confirm and delete the file.



Commonly Asked Questions

Why can't I hear the music audio?

- Ensure the music volume is turned up.
- Ensure the Input Selector is set to the appropriate input.
- Double-check connections from the music source to the SDR-MIX.

Why can't I hear the microphones?

- Ensure a high-impedance microphone is being used.
- Ensure the appropriate mic volume is turned up.
- Double-check the mic connections.

Why won't my USB/SD Card be recognized?

- Make sure the USB or SD Card is set to either FAT or FAT32 file system.
- Do not use USB/SD Cards larger than 32GB.
- External hard drives are not compatible.

I'm missing some parts from my box. What do I do?

- Please call Vocopro regarding any missing or defective parts at 800-678-5348.

