AMERICAN AUDIO

Media Operator

Professional USB & SD Card Player
"EASY, FAST, & RELIABLE"

Featuring:

AUTO BPM ANALYZER · mp3 · TEMPO LOCK · SD · CERTIFIED USB · seamless loop

User Guide
and Reference Manual

5/08

CONTENTS

MAIN FEATURES

- One USB 2.0 Port and One SD Card Slot
- Auto cue
- Tempo Lock
- Pitch Adjust Knob
- Pitch Ben
- Pitch Display
- Seamless Loop (uninterrupted loop playback)
- Microphone Input with Volume Control
- Adjustable Pitch Percentages: +/-4%, +/-8%, or +/-16%

- Track & Folder Search Knobs
- Advance Track Search
- Mp3 Track Listings
- Repeat Mode
- Bright Large Digital Screen
- Master Volume Control
- Auto BPM
- Selectable Single or Continuous Play

IMPORTANT SAFETY PRECAUTIONS

IMPORTANT SAFETY ITEMS FOR U.S.A. & CANADA MODEL ONLY

WARNING:
> TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS SD PLAYER TO WATER OR MOISTURE

CAUTION:

1. Handle the power supply cord carefully. Do not damage or deform; it may cause electric shock or malfunction when used. Hold plug attachment when removing from wall outlet. Do not pull on the cord.

2. To avoid electric shock, do not open the top cover when the unit is plugged in. If problems occur with the unit, call your local American Audio® dealer.

3. Do not place metal objects or spill liquid inside the player. Electric shock or malfunction may occur.

CAUTION
Do not open - Risk of electric shock

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER RACK. THERE ARE NO USER SERVICEABLE PARTS INSIDE REFER SERVICE TO YOUR AUTHORIZED American Audio DEALER.

The lightning flash with an arrow triangular symbol is intended to alert the user to the presence of non insulated "dangerous voltage" within the products enclosure, and may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the user manual accompanying the SD player.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE CAREFULLY INSERTED TO PREVENT BLADE EXPOSURE

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

THE PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

NOTE:

This unit may cause interference to radio and television reception.

Please carefully read and understand the instructions in this manual thoroughly before attempting to operate this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Take special care to follow all warning symbols and labels both on the unit and printed in this manual. Also, Please keep this manual with the unit, for future reference.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER TYPE OF ELECTRICAL OUTLET UNLESS THE WIDE BLADES CAN BE CAREFULLY INSERTED INTO A MATCHING WIDE SLOT.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

ELECTRICAL PRECAUTIONS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE REFER SERVICE TO YOUR AUTHORIZED AMERICAN AUDIO® SERVICE TECHNICIAN.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

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

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

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

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

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION – The appliance should be installed in a stable location.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left un-used for a long period of time.

GROUNDING OR POLARIZATION
- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

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 product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

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

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

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

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

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

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

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

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

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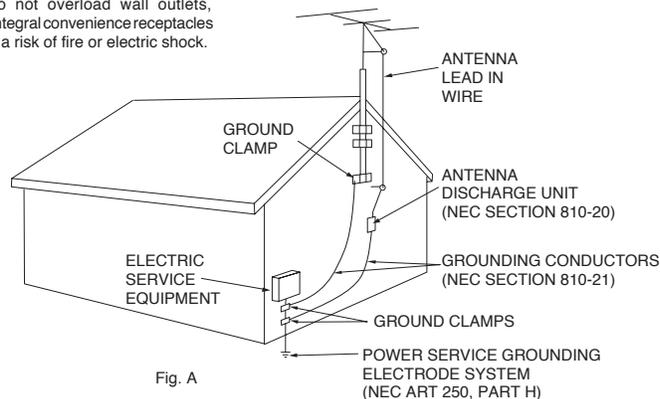
ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

GROUNDING CONDUCTORS (NEC SECTION 810-21)

ELECTRIC SERVICE EQUIPMENT

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

Fig. A

NEC — NATIONAL ELECTRICAL CODE

SAFETY INSTRUCTIONS

I. Read Instructions - All the safety and oper ating instructions should be read before the before the Media Player is operated. The safety and operating instructions should be saved for future reference.

2. Heed Warnings - All warnings on the Media Player and in the operating instructions should be adhered to.

3. Water and Moisture - The player should not be used near water - for example, near a bath tub, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.

4. Ventilation- The Media Player shoul be situated so that its location or position does not interfere with its proper ventilation. For example, the player should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

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

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

7. Servicing - The user should not attempt to service the Media Player beyond that described in the operating instructions. All other servicing should be referred to quali-fied service personnel. The Player should be serviced by qualified service personnel when:
   A. The power-supply cord or the plug has been damaged.
   B. Objects have fallen, or liquid has been spilled into the player.
   C. The player has been exposed to rain or water.
   D. The player does not appear to oper-ate normally or exhibits a marked change in performance.

The serial and model number for this unit is located on the rear panel. Please write down the numbers here and retain for future refer-ence.

Model No._____

Serial No._____

Purchase Notes:

Date of Purchase_____

Dealer Name_____

Dealer Address_____

_____

_____

Dealer Phone_____

UNPACKING

Every Media Operator™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your media player for any damage and be sure all equipment necessary to operate the media player has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return the media player to your dealer without first contacting customer support.

INTRODUCTION

Introduction:
Congratulations and thank you for purchasing the American Audio® Media Operator™. This media player is a representation of American Audio's continuing commitment to produce the best and highest quality audio products possible at an affordable price. Please read and understand this manual completely before attempting to operate your new media player. This booklet contains important information concerning the proper and safe operation of your new media player.

Customer Support:
American Audio® provides a toll free customer support line, to provide set up help and answer any question should you encounter problems during your initial set up or operation. You may also visit us on the web at www.americanaudio.us for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:30 p.m. Pacific Standard Time.

      Voice: (800) 322-6337
      Fax: (323) 582-2610
      E-mail: support@americanaudio.us
To purchase parts online visit http://parts.americandj.com

Caution! There are no user serviceable parts inside this media player. Do not attempt any repairs yourself, without being instructed to do so by an authorized American Audio service technician. Doing so will void your manufactures warranty. In the unlikely event your media player may require service, please contact American Audio® customer support.

Do not discard the packing carton in the trash. Please recycle when ever possible.

SET-UP PRECAUTIONS

Please be sure to make any connections before plugging the media player in to an electrical outlet. All fader and volume controls should be set to zero or minimum position, before the SD player is switched on. If the media player has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch on the media player immediately. The arising condensation of water might damage your device. Leave the device switched off until it has reached room temperature.

Operating Determinations:
• When installing this media player, please make sure that the device is not exposed or will not be exposed to extreme heat, moisture or dust!
• Do not operate the media player in extremely hot (more than 40°C/104°F) or extremely cold (less than 5°C/40°F) surroundings.
• Keep the unit out of direct sunlight and away from heaters.
• Operate the media player only after becoming familiar with its' functions. Do not permit operation by persons not qualified for operating the unit. Most damages are the result of unprofessional operation.

IMPORTANT SD CARD AND USB INFORMATION

VERY IMPORTANT SD CARD AND USB INFORMATION: When using an SD Card, USB stick, USB Card Reader, or <u>compatible</u> *External Hard Drive*:*

- *Make sure your SD Card, USB Stick, or Hard Drive* has only MP3 files on it. There cannot be any other type of files on your media device, NO WAV files, photo files, etc...*
- *The Media Operator™ is compatible with all SD and SDHC Cards (SDHC up to 32GB only)*
- *The Media Operator™ can read Mp3 format files only.*
- *Only external hard drives* with external power supplies are supported. When using an external hard drive, if you switch the Media Operator "Off" and then back "On" again you will need to disconnect and then reconnect your external hard drive USB plug. If you do not do this the Media Operator will not detect your connected hard drive.*
- *If you are using a SD Card via USB card reader, you must remove the USB card reader first to change SD Card's. Please do not remove the SD Card from the USB card reader while the USB card reader is still connected to the Media Operator.*

PLEASE NOTE:

For higher quality MP3 files (more than 128 kbps) American Audio recommends "High Speed" SD Cards. Using high speed cards will ensure the best performance with your Media Operator™.

*Not all external hard drives with external power supplies are compatible with the Media Operator™.

SET-UP

1. Checking the Contents

Be sure your Media Operator™ was shipped with the following:
1) Media Operator™
2) Operating Instructions (This Booklet)
3) A Set of Stereo RCA Cables
4) Warranty card
5) SD Card and SD Card Reader

2. Installing the Units
1) Place your unit on a flat surface or mount it in a secure rack mount case.
2) Be sure the player is mounted in a well ventilated area where it will not be exposed to direct sunlight, high temperatures, or high humidity.
3) Try to place the unit as far as possible from TVs and tuners, as the unit may cause undesirable interference.

3. Connections
1) Be sure main power is <u>connected last</u> to prevent any electrical damage.
2) *AUDIO CONNECTIONS:* Use the included RCA cable to connect the Media Operator™ outputs to the line inputs of a mixer. Never connect this player's output to a mixers "phono" inputs.
3) Use the XLR balanced outputs to connect the Media Operator™ to the XLR inputs of a speaker.

CAUTION:
- *To avoid sever damage to the unit, be sure the power is off when making connections to the unit.*
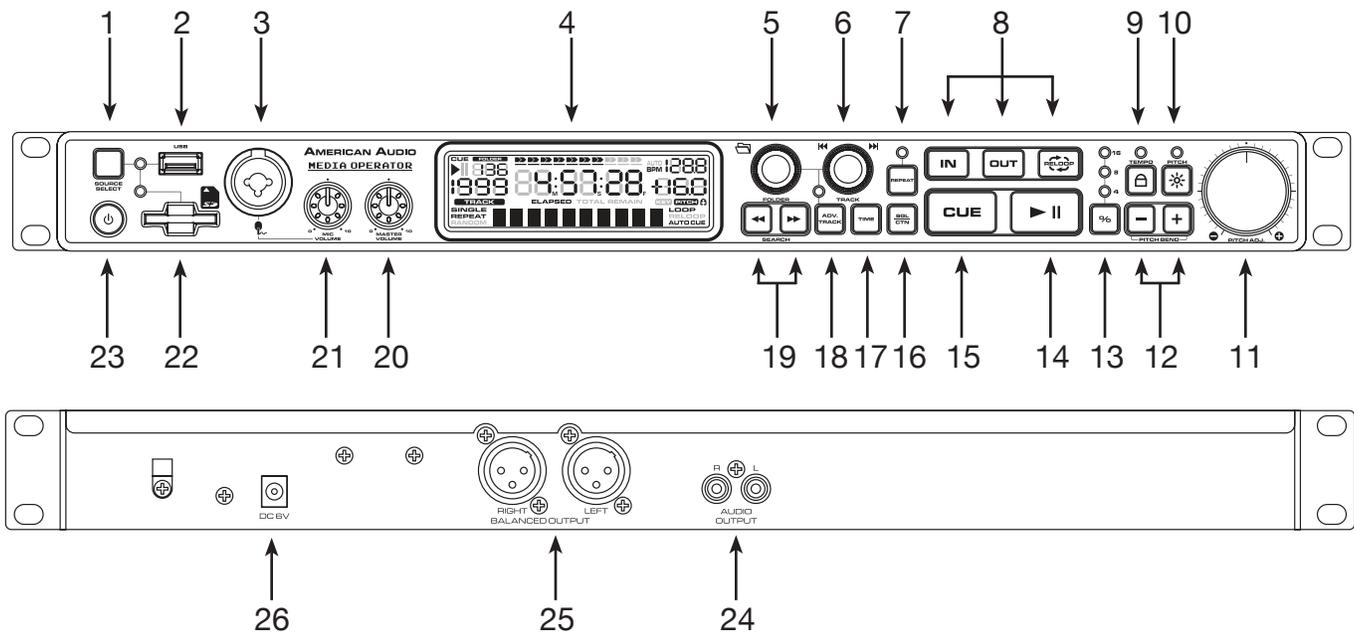
GENERAL FUNCTIONS AND CONTROLS

Figure 1

Figure 2

A. MEDIA PLAYER (FIGURE 1)

1. SOURCE SELECT BUTTON - Press this button to toggle between the USB port or SD Card slot. The related LED will be lit when the playback source is selected. The USB port LED glows red, and the SD Card slot will glow green. The button can only be used when the fixture is pause mode.

2. USB PORT - This is the USB port where you can insert a USB stick, USB card reader, or compatiable external hard drive for playback. ***VERY IMPORTANT: PLEASE SEE PAGE 7 FOR DETAILS REGARDING/USING USB DEVICES.***

3. MICROPHONE - This combo jack will accept a standard 1/4 plug or XLR 3-pin balanced male plug. The volume output level for this microphone will be controlled by its own respective *VOLUME KNOB (21).* ***Note: We recommend that you use a 500-600ohm microphone for the best sound quality.***

4. LCD DISPLAY - This high quality LCD display indicates all the functions, as they are occurring. The display ICONS will be explained on page 12.

5. FOLDER KNOB - This knob serves three functions depending on which mode you are in;
- Turning this knob will let you scroll through the music folders on your SD Card or USB Stick. The folder number will be shown in the *FOLDER INDICATOR (28)* in the LCD. Turn the knob to scroll backwards or forwards through the folders.
- Push the knob to display the folder name of the current song playing.
- Push this knob for 2 seconds to enter the PRESET MENU. See page 19 for PRESET MENU.

6. TRACK KNOB -
Turning this knob will let you search either folders and tracks. The track and folder will be shown in the

LCD. Turn the knob to scroll backward and forward through tracks and folders. Pushing and turning this knob will allow you to skip 10 tracks ahead or back, per "click" of the knob. Push this knob to display the artist, bitrate, title name, genre, and file name of the current song playing.

7. REPEAT BUTTON - When the REPEAT function is active only the tracks within the folder that is playing will repeat. When the REPEAT function is deactivated all tracks within the memory device will play.

8. IN, OUT, & RELOOP BUTTONS -

IN BUTTON - "CUE ON THE FLY" - This function allows you to set a CUE POINT (see CUE POINT page 15) without music interruption ("on the fly"). This button also sets the starting point of a seamless loop (see SEAMLESS LOOP on page 16).

OUT BUTTON - This button is used to set the ending point of a loop. A loop is started by pressing the IN BUTTON, pressing the OUT BUTTON set the loop ending point. The loop will continue to play until the OUT BUTTON is pressed once again.

RELOOP BUTTON - If a SEAMLESS LOOP has been made (see setting a SEAMLESS LOOP on page 16), but the player is not actively in SEAMLESS LOOP mode (a loop is not playing), pressing the RELOOP BUTTON will instantly reactivate the SEAMLESS LOOP mode. To exit loop, press the OUT BUTTON. LOOP and RELOOP will appear in the LCD DISPLAY (4) when the RELOOP function is available.

9. TEMPO LOCK FUNCTION - This button activates and deactivates the TEMPO LOCK function. This function allows you to use the PITCH KNOB (11) to speed up or slow down playback speed without altering the tonal pitch of the track. When this function is not engaged the original tonal pitch of the track will be altered giving you the "chipmunk" effect when a track is played at a high rate of speed, or the "James Earl Jones" effect when a track is slowed to much.

10. PITCH ON/OFF BUTTON - This button is used to turn the PITCH ADJUSTMENT KNOB (11) on and off. The pitch percentage can be changed between 4%, 8%, and 16%. 4% will allow the least amount of pitch manipulation and 16% will allow the most amount of pitch manipulation. To adjust to the different values please see page 22.

11. PITCH KNOB -
This knob is used to adjust the playback pitch percentage. The knob is a set adjustment and will remain set until the pitch knob is moved or the pitch function has been turned off. This adjustment can be made with or without a digital source loaded. The pitch adjustment will remain even if the digital source has been removed and will reflect on any other digital source loaded into the player. That is to say, if you set a +2% pitch on one digital source, remove that source and load another, that source too will have a +2% pitch. The amount of pitch being applied will be displayed in the LCD (4).

12. PITCH BEND BUTTONS -
(-) PITCH BEND BUTTON - The (-) pitch bend function creates a momentary "Slow Down" in the song's BPM's (Beats per minute) while it is playing. This will allow you to match the beats between two playing track's or other playing music source. Remember, this is a momentary function. When you remove your finger from the pitch button, the BPM's will automatically return to normal. Holding down this button will decrease the pitch to whatever the PITCH PERCENTAGE SELECTOR (13) is set to. Use this function to slow to another playing music source. Be sure to notice that this function is a momentary pitch adjustment.

(+) PITCH BEND BUTTON - The (+) pitch bend function creates a momentary "BUMP" in the song's

BPM's (Beats per minute) while it is playing. This will allow you to match the beats between two playing song's or any other music source. Remember, this is a momentary function. When you remove your finger from this button, the BPM's will automatically return to normal. Holding down this button will increase the pitch to whatever the *PITCH PERCENTAGE SELECTOR (13)* is set to.

13. PITCH PERCENTAGE SELECTOR- When the *PITCH KNOB (11)* is activated use this button to choose a pitch percentages of 4%, 8%, and 16%. See page 22 for more details.

14. PLAY/PAUSE BUTTON - Each press of the *PLAY/PAUSE BUTTON* causes the operation to change from play to pause or from pause to play. While in play mode the green LED will glow, and while in pause mode the green LED will flash.

15. CUE - Pressing the *CUE* button during playback immediately pauses playback and returns the track to the last set cue point (see setting a CUE POINT, page 15). The red CUE LED will glow when the unit is in cue mode. The LED will also flash every time a new CUE POINT is set. The CUE button can be held down to momentarily play the track. When you release the CUE button it instantly returns to the CUE POINT. You can also tap the CUE button to create a BOP EFFECT.

16. SGL/CTN - This function allows you to choose between single track play or continuous track play (all tracks in order). Hold this button down for 1 second to activate the Auto Cue function. See page 14 for AUTO CUE.

17. TIME MODE - The TIME button will switch the time value described in the *TIME METER* between ELAPSED PLAYING TIME, and TRACK REMAINING TIME.

18. ADV. TRACK BUTTON - While either playing a track or in pause mode, press this button to search for the next track you want to play. When you press this button you will enter ADV. TRACK mode, the *TRACK INDICATOR (41)* will flash. Use *TRACK KNOB (6)* to search for the track you want to play. Press the *TRACK KNOB (6)* once you have found your desired track. The LCD will display "Search..." and then "FOUND" once the track is found. When the track that is playing comes to an end press the *TRACK KNOB (6)* once more to play the track that you searched for. You can also press the *TRACK KNOB (6)* to stop current playback and start playback on your seleted track. Please see page 18 for complete instructions.

19. FRAME SEARCH BUTTONS - The search buttons will let you scan through a track, either backwards or forwards, frame by frame. If you hold either of the buttons down you will search faster through the frames.

20. MASTER VOLUME CONTROL - This knob is used to control the master output level. To avoid speaker damage that may be caused by excessive volume, be sure this knob is always set to the lowest level before turning the unit on.

21. **MICROPHONE VOLUME CONTROL -** This knob controls the output volume of the MICRO-PHONE *(3)*.

22. SD CARD SLOT - This is where you load your SD card. Gently insert your SD Card into the slot. To eject your card, put the Media Operator in pause mode, and then press the SD Card gently. The SD Card should "Pop" out. ***VERY IMPORTANT: PLEASE SEE PAGE 7 FOR DETAILS REGARDING/USING SD CARDS.***

23. POWER BUTTON - Press and hold this button for at least 2 seconds to power the unit on and off.

B. MEDIA OPERATOR - REAR (FIGURE 2)

24. AUDIO OUT R & L - The Master Output includes a pair *XLR BALANCED JACKS (25)* as well as a pair of RCA Unbalanced Jacks. The RCA jacks send a low current unbalanced output signal. Use these jacks to send standard audio to a mixer or receiver. The red colored jack represents the right channel output and white jack represents the left channels output.

25. BALANCED XLR MASTER OUTPUTS JACKS - The Master Output includes a pair of XLR Balanced jacks as well as a pair of *RCA UNBALANCED JACKS (24)*. The 3-pin XLR jacks send a high current balanced output signal. These jacks should be used when you will be driving an amp or other audio equipment with a balanced input, or whenever you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

26. AC VOLTAGE INPUT - This connector is used to supply main power to the unit via the included detachable power supply. Only use the supplied power adaptor to avoid damaging the unit. The unit receives an input power supply of DC 6V 1.5A.
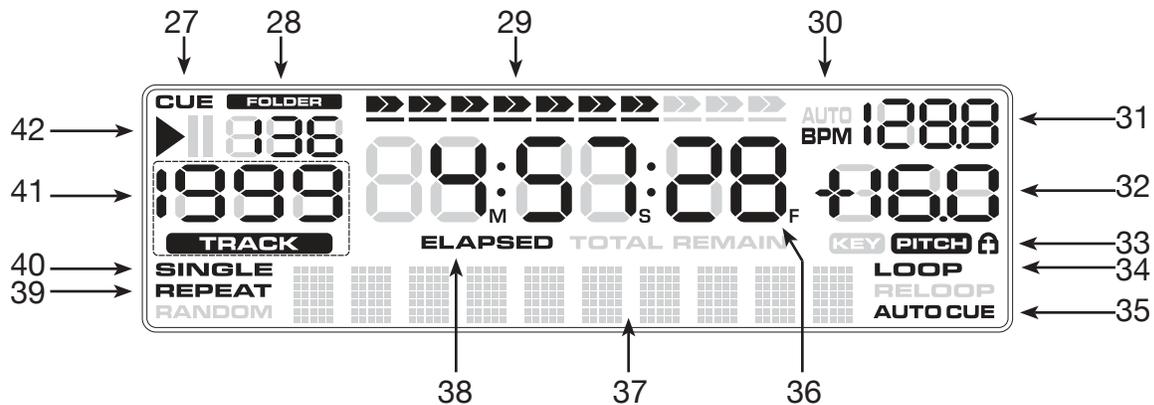
Figure 3

D. LCD DISPLAY PANEL (FIGURE 3)

27. CUE INDICATOR - This indicator will glow when the unit is in CUE mode and will flash every time a new CUE POINT is set.

28. FOLDER INDICATOR - This will indicate which folder you are in.

29. TIME BAR INDICATOR - This bar gives a visual approximation of a track's remaining time. This bar will begin to flash when a track is ending.

30. AUTO BPM INDICATOR - This will indicate that the AUTO BPM counter is active.

31. BPM METER - This meter will display the BPM's of the current track.

32. PITCH METER - This meter will display the pitch percentage applied by the *PITCH KNOB (11).*

33. 🔒 **TEMPO LOCK -** This will indicate the Tempo Lock function is active.

34. LOOP & RELOOP INDICATOR - Appears when a LOOP has been made or a RELOOP is engaged or ready to be engaged.

35. AUTO CUE INDICATOR - This will indicate if the Auto Cue is on or off. Press and hold the *SGL/CTN (16)* for more then a second to toggle the Auto Cue function on and off.

36. TIME DISPLAY - These indicators detail the Minutes, Seconds, and Frames. The meter will display either the elapsed or remaining time of a track.

37. CHARACTER DISPLAY - This will display the name of the track and album when a SD Card is loaded.

38. ELAPSED/REMAIN INDICATOR - When "REMAIN" is indicated in the *LCD* the *TIME DISPLAY (36)* in the *LCD* will define the current track's remaining time. When "ELAPSED" is indicated in the *LCD* the *TIME DISPLAY (36)* in the *LCD* will define the current track's elapsed time. You can toggle the indicators by pressing the *TIME BUTTON* (17).

39. REPEAT INDICATOR - This indicates that the repeat function is activated. When the repeat function is activated, all of the tracks the current folder will repeat playing until the REPEAT function is deactivated.

40. SINGLE INDICATOR - When this indicator is lit, the player is in single play mode. The track will play once and then return to CUE mode. If the single indicator is not lit the unit is in continuous mode. In continuous mode the unit will play all the remaining tracks in the memory device. Once the remaining tracks have ended the unit will return to cue mode.

41. TRACK INDICATOR - This 4-digit indicator visually details the current track cued or playing.

42. PLAY & PAUSE INDICATORS - The "PLAY" indicator will glow when the unit is in play mode, and the "PAUSE" indicator will flash when the unit is pause mode.

BASIC OPERATIONS

1. LOADING/EJECTING AN SD CARD OR USB

When loading an SD Card into the player load with the SD Card label facing up and the contacts facing down. To remove the card from the player gently press the card "in" until it "pops' out. When connecting a USB stick, USB card reader, or external hard drive make sure you are correctly lined up with the USB port and gently insert the USB connection. To disconnect a USB drive, stop playback and "pull out" the USB connection. **Please see page 7 for SD Card and USB drive information.**
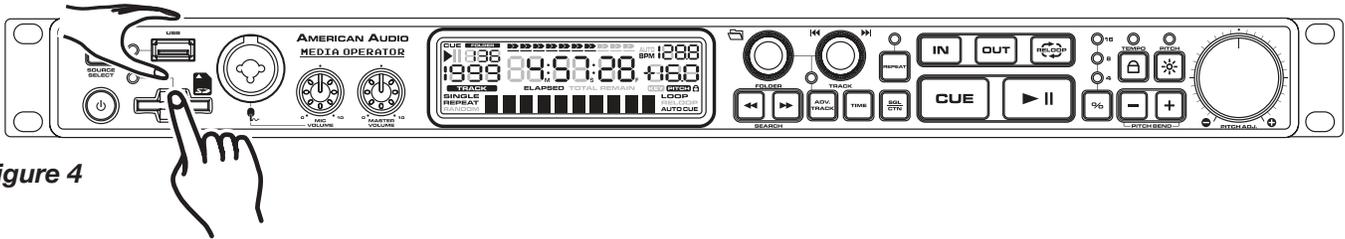
Figure 4

Figure 4: To eject the SD Card *press the SD Card "in" until it "pops" out. To disconnect a USB drive, stop playback and "pull out" the USB connection.*

2. SELECTING FOLDERS AND TRACKS

Select a desired folder by using the *FOLDER KNOB (5)* or select a desired track by using the *TRACK KNOB (6).* Turning the *FOLDER KNOB (5)* or *TRACK KNOB (6)* once will select either the next higher or lower folder or track, depending on which way you turn it.
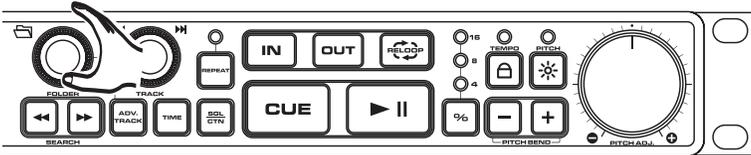
Figure 5

Figure 5: *Turning the FOLDER KNOB (5) counter-clockwise will take you to the previous folder.*

Figure 6: *Turning the FOLDER KNOB (5) clock-wise will take you to the next folder.*
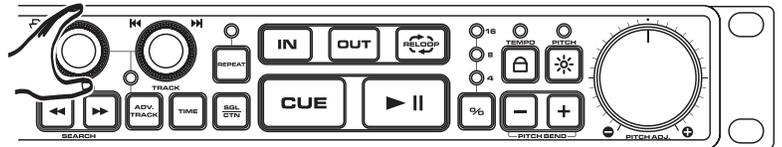
Figure 6
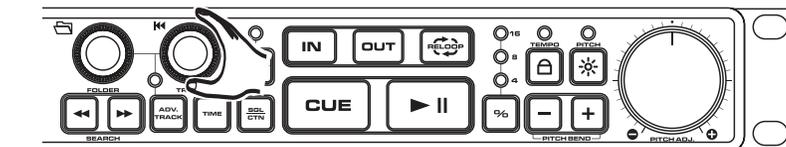
Figure 7

Figure 7: *Turning the TRACK KNOB (6) counter-clockwise will take you to the previous track.*

Figure 8: *Turning the TRACK KNOB (6) clock-wise will take you to the next track.*
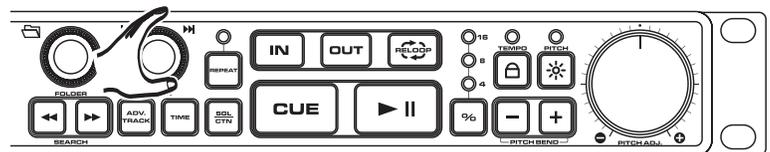
Figure 8

3. STARTING PLAYBACK - Figure 9

Insert an SD card or connect an USB drive as described on page 13 (*LOADING/EJECTING AN SD CARD OR USB*). Pressing the *PLAY/PAUSE BUTTON (14)* with an SD Card loaded or USB drive connected will immediately start playback. The *PLAY (42)* indicator will glow as soon as playback begins. The point at which playback starts (cue point) will automatically be stored in the memory as the cue point. The unit will return to this cue point (the point at which playback started) when the *CUE BUTTON (15)* is pressed and released.
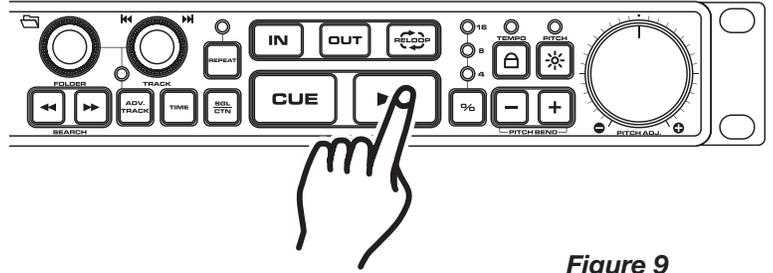
Figure 9

4. PAUSING - Figure 9

This function pauses playback at the exact same point the *PLAY/PAUSE BUTTON (14)* was pressed. Pressing the *PLAY/PAUSE BUTTON (14)* will switch between play and pause modes. When the unit is in pause mode the *PAUSE INDICATOR (42)* in the *LCD DISPLAY (4)* and the *PLAY/PAUSE BUTTON* L.E.D. will begin to flash repeatedly.
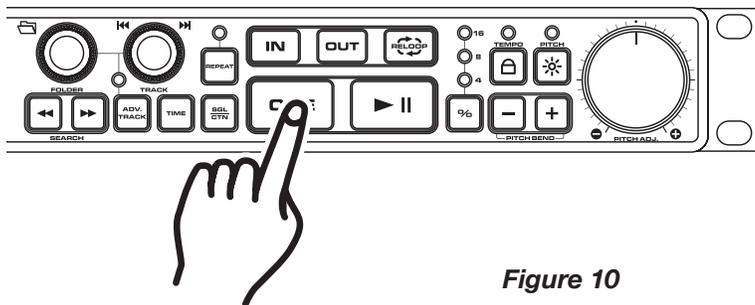
Figure 10

5. STOPPING PLAYBACK - Figures 9 & 10

Stopping playback will not stop the reading mechanism, but merely pause or cue the track, this function allows the unit to begin play instantly. There are two ways to stop (pause) playback:

1) Press the *PLAY/PAUSE BUTTON (14)* during playback. This will pause playback at the exact same point the *PLAY/PAUSE BUTTON (14)* was pressed.

2) Press the *CUE BUTTON (15)* during playback. This will pause playback and return the track to the last set cue point.

6. AUTO CUE

This function will automatically set a cue point to the first audio source. The first set cue point will always be the beginning of track 1. If a new track is selected before the *PLAY/PAUSE BUTTON (14)* is pressed, a new CUE POINT will be set to reflect the new starting point. To toggle AUTO CUE on and off hold the *SGL/CTN BUTTON (16)* for 2 seconds.
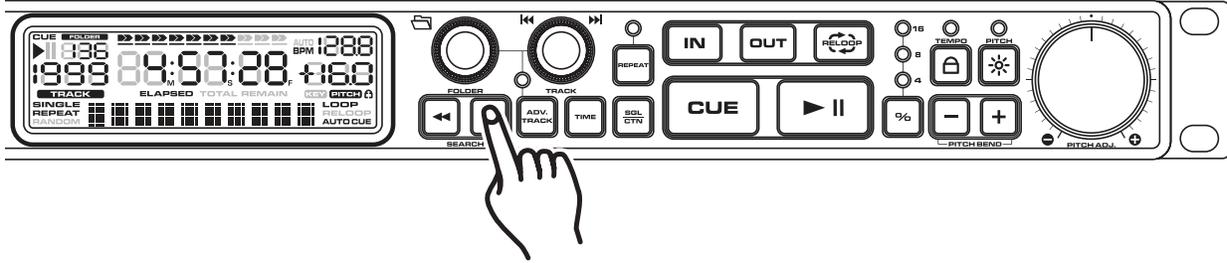
Figure 11

7. FRAME SEARCH

This feature allows you to scroll through a track frame by frame, allowing you to find and set a starting cue or loop point. To use the scroll function you must first be in Pause Mode (see section 4) or Cue Mode (see section 8). Once you are in Pause or Cue mode, press the *SEARCH BUTTONS (19)* to scroll through the track (Figure 11). When you use the *SEARCH BUTTONS (19)* the monitor function allows you to here what you are scrolling through. Once you reach your desired starting point you can set a cue (starting) point by pressing the *PLAY/PAUSE BUTTON (14)* as in Figure 9. Pressing the *CUE BUTTON (15)* as in Figure 10 will now return you to the point you just set.

8. SETTING a CUE POINT:

Setting A Cue Point:
A cue point is the exact point playback will begin when the *PLAY/PAUSE BUTTON (14)* is pressed. You may set your cue point anywhere on a track. There are two ways to set and create a CUE point as detailed in figures 12 and 13.

1) You may press the *IN BUTTON (8)* on the fly (while the track is playing). This will set a CUE Point without music interruption. Pressing the *CUE BUTTON (15)* will now return you to the same point that you pressed the *CUE BUTTON (15).* Pressing the *CUE BUTTON (15)* will now return you to this exact point.
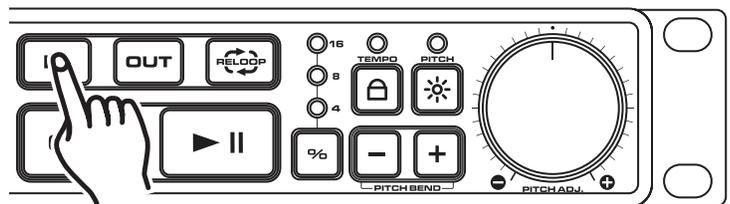
Figure 12
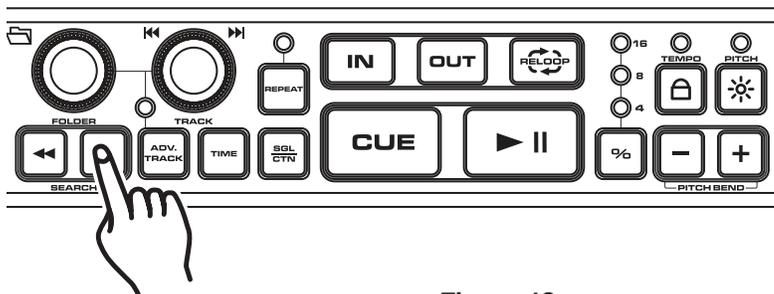
Figure 13

2) You may also use the *SEARCH BUTTONS (19) to set* a cue point. While a track is in PAUSE or CUE mode, use the *SEARCH BUTTONS (19)* to scroll through a track to find your desired starting point. Once you have found your desired position press the *PLAY/PAUSE BUTTON (14)* to set your cue point. Pressing the *CUE BUTTON (15)* will now return you to this exact point.

9. CREATING AND PLAYING A SEAMLESS LOOP

A seamless loop is a sound loop that plays continuously without sound interruption. You can use this loop to create dramatic effect in your mixing. This loop has no time limit and you could actually loop the entire length of a card. You create a seamless loop between two continuous points of a track.
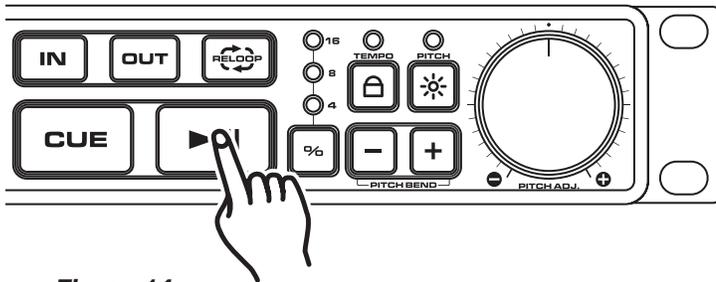

Figure 14

1) Press *PLAY/PAUSE BUTTON (14)* to activate playback mode.

2) Press the *IN BUTTON (8).* This will set the starting point of the SEAMLESS LOOP. The *IN BUTTON* LED will blink.
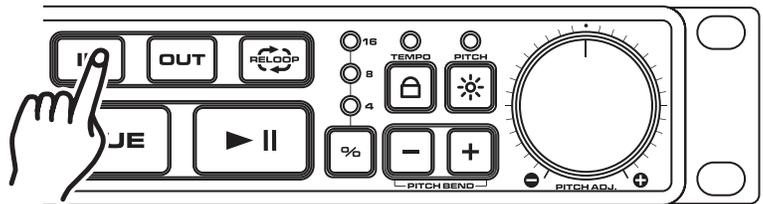
Figure 15
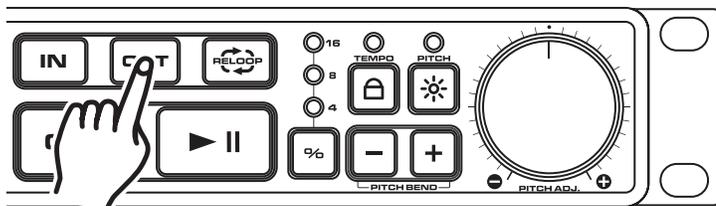
Figure 16

3) Press the *OUT BUTTON (8)* to set the ending point for your SEAMLESS LOOP (Figure 16). The *IN BUTTON* and *OUT BUTTON* LEDs will immediately begin to flash rapidly indicating the SEAMLESS LOOP mode has been activated.

10. EXITING A LOOP - To exit a SEAMLESS LOOP, press the *OUT BUTTON (8).* The *IN BUTTON* and *OUT BUTTON* LEDs will remain on, but will stop flashing. Music playback will resume normal play. The button LEDs will remain on to remind you that a loop is stored in memory.
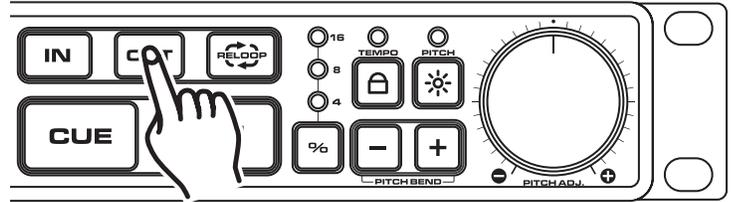
Figure 17

Figure 18

11. REPLAY LOOP - The *RELOOP (8)* function allows you to return to your stored loop at any time. The *IN BUTTON* and *OUT BUTTON* LEDs will indicate a loop is stored in memory, and may be played at any time. To replay the loop, press the *RELOOP BUTTON (8).* The *IN BUTTON (8)* and *OUT BUTTON* LEDs will again begin to flash indicating SEAMLESS LOOP mode has been activated and your stored loop will immediately begin to play.

Stutter Effect: You can use your loop to create a stutter effect. When a loop is playing press the *RELOOP BUTTON (8)* repeatedly to create this effect.
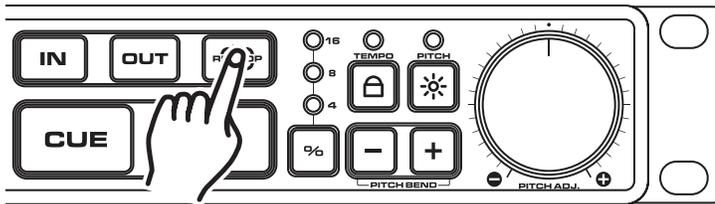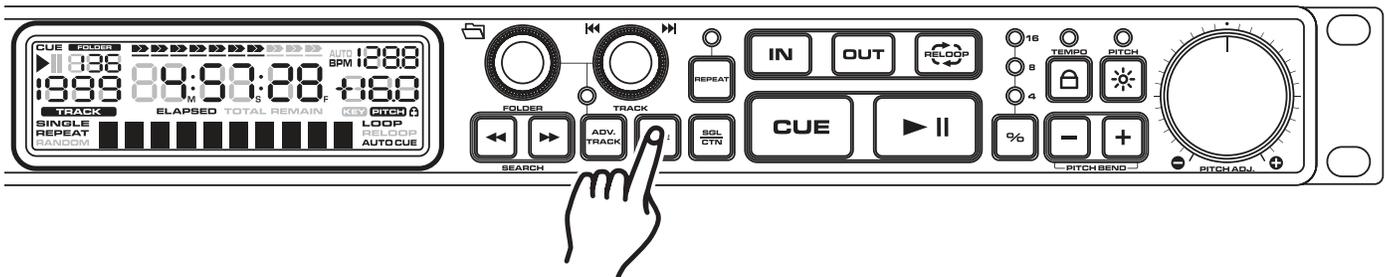
Figure 19

12. CHANGING THE TIME DISPLAY (36)\TIME BAR (29):

DURING NORMAL PLAYBACK, pressing the *TIME BUTTON (17),* will change the time display information (36 & 29) in the *LCD (4)*. The following is a break down of the time settings and their definitions:

1) **ELAPSED** - This describes the time in the LCD as the current TRACKS Elapsed running time.

2) **REMAIN** - This describes the time in the LCD as the current TRACKS remaining running time.

TIME BAR INDICATOR - Details the time defined in the *TIME METER (36)* as a visual bar icon. As with the *TIME METER (36)* this bar is also dependent on the selected time function *ELAPSED,* or *REMAIN.* This bar will begin to flash when a track is ending regardless, of which time functon you are in. Use the flashing bar as a visual reminder that a track is ending.

13. ADVANCE TRACK SEARCH
You can find the desired track you would like to play during the playback/pause.

1. Press the *ADV. TRACK BUTTON (18)* to enter advance track search mode. The *TRACK INDICATOR (41)* will flash in the LCD. Turn the *TRACK KNOB (6)* to search for your desired track within the current folder. **NOTE: If your desired track is in another folder you must first locate/access that folder before activating the adv. track search.**
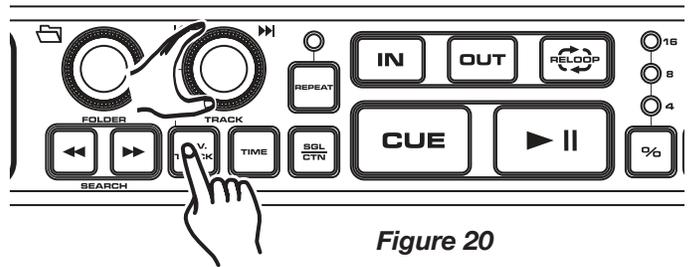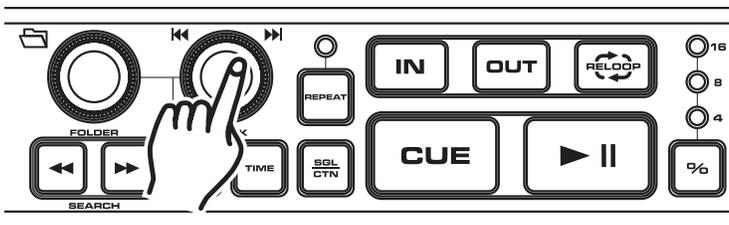

Figure 20

Figure 21

2. Press the *TRACK KNOB (6)* to select your desired track, "SEARCH" will now be displayed in the LCD.

3. When "FOUND" is displayed in LCD, press the *TRACK KNOB (6)* again to play your selected track.
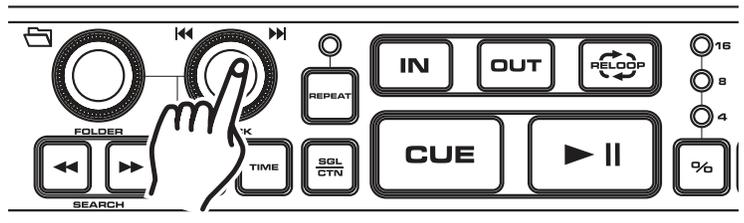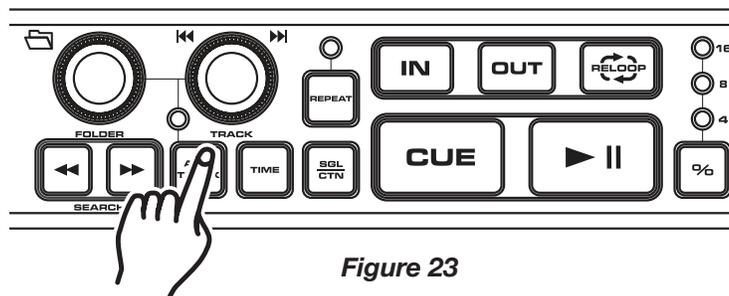

Figure 22

Figure 23

4. Pressing the *ADV. TRACK BUTTON (18)* at anytime, will cancel this function.

14. PRESET MENU:

The Media Operator has a PRESET MENU where you can access AUTO MUTE, AUTO TALK OVER, RESET ALL, or you can "display" the FIRMWARE VERISION. Press and hold the *FOLDER KNOB (5)* for 2 secs. to enter PRESET mode. Turn the *FOLDER KNOB (5)* to scroll through the PRESET MENU.
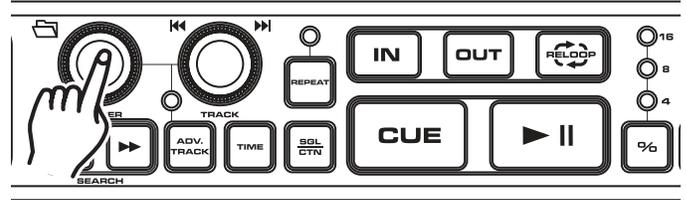

Figure 24

AUTO MUTE:

When this function is activated the MIC input will be muted when the MIC input level is below -60dB.

Enter PRESET MENU, and then turn the *FOLDER KNOB (5)* until AUTO MENU is displayed. Press the *FOLDER KNOB (5)* to toggle AUTO MUTE ON or OFF. Once you have finished turn the *FOLDER KNOB (5)* counter clockwise so the PRESET is displayed and press the *FOLDER KNOB (5).* You can also wait for at least 5 seconds and the fixture will automatically exit PRESET MENU.
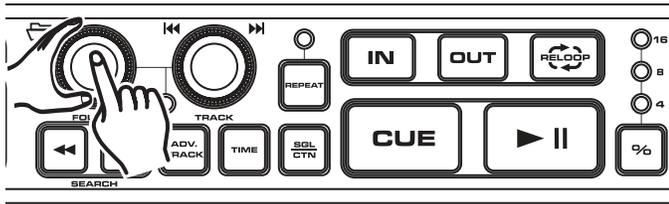

Figure 25

AUTO TALK OVER:

When this function is activated all signal levels will decreased except the MIC level. You can adjust the MIC level using the *MIC VOLUME KNOB (21).*

Enter PRESET MENU, and then turn the *FOLDER KNOB (5)* until AUTO TALK OVER is displayed. Press the *FOLDER KNOB (5)* to toggle AUTO TALK OVER ON or OFF. Once you have finished turn the *FOLDER KNOB (5)* counter clockwise so the PRESET is displayed and press the *FOLDER KNOB (5).* You can also wait for at least 5 seconds and the fixture will automatically exit PRESET MENU.
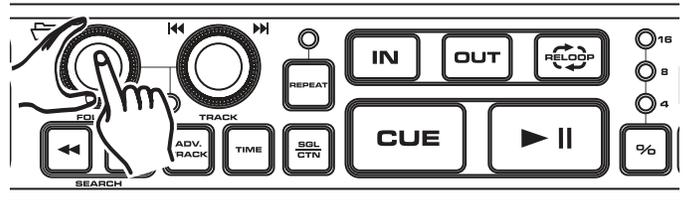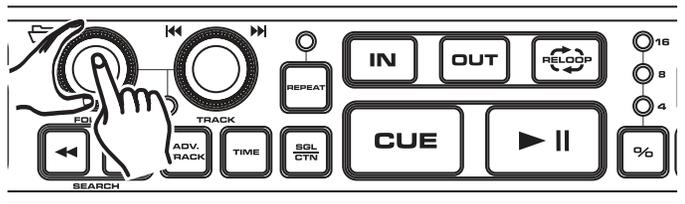

Figure 26

RESET ALL:

When this function is activated it will reset the unit to the default settings*.*

Enter PRESET MENU, and then turn the *FOLDER KNOB (5)* until RESET ALL? is displayed. Once you press the *FOLDER KNOB (5)* the unit will return to default settings. If you do not want to reset turn the *FOLDER KNOB (5)* counter clockwise so the PRESET is displayed and press the *FOLDER KNOB (5).* You can also wait for at least 5 seconds and the fixture will automatically exit PRESET MENU.

Figure 27

FIRMWARE VERSION:

Enter PRESET MENU, and then turn the *FOLDER KNOB (5)* until VXX.XX is displayed. "X's" are the version number. Once you have seen the version number turn the *FOLDER KNOB (5)* counter clockwise so the PRESET is displayed and press the *FOLDER KNOB (5).* You can also wait for at least 5 seconds and the fixture will automatically exit PRESET MENU.
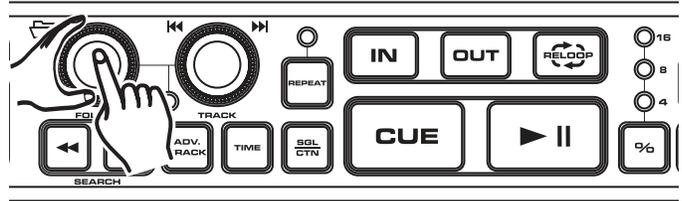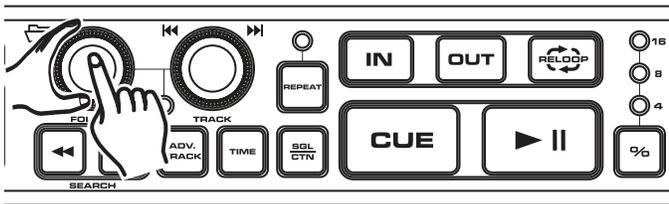

Figure 28

Figure 29

VIEW THE TITLE CONTENT:

You are able to view the ARTIST, BIT RATE, TITLE NAME, and FILE NAME of the current song playing. To view this information press the *TRACK KNOB (6)*.

PITCH ADJUSTMENTS

PITCH ADJUSTMENTS:

The different pitch adjustments allow a track's or a loop's playback speed to be manipulated. This speed manipulations is commonly used to beat match between two or more music sources. The playback speed may be increased or decreased by a factor of +/-16. The next section details the different pitch manipulation schemes.
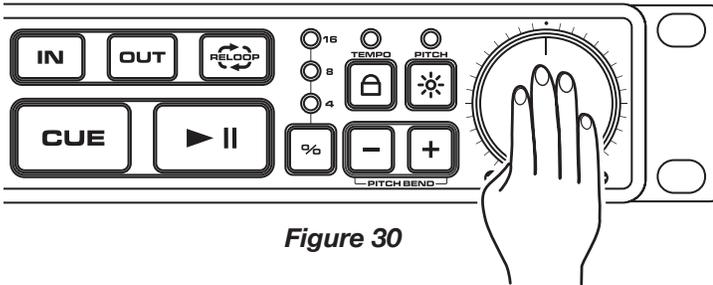
1. PITCH KNOB (11):

Figure 30

This function will increase or decrease the tracks playback speed or "PITCH." The maximum pitch percentage manipulation in this function is +/-16%. The *PITCH KNOB (11)* is used to decrease or increase the playback pitch. If the knob is turned counter-clockwise the pitch will decrease, if the knob is turned clockwise the pitch will increase. The *PITCH KNOB (11)* adjustment can be changed to range from +/-4%, +/-8%, or +/-16% (See changing "PITCH PERCENTAGE RANGE" on the next page). The *PITCH KNOB (11)* will only effect normal playback and loops when the *PITCH KNOB (11)* is active.

Activating the PITCH KNOB (11): To activate the *PITCH KNOB (11)* you must turn on the pitch adjustment function. To activate the *PITCH KNOB (11)* press the *PITCH BUTTON (10)*. The pitch indicator will glow in the LCD, when the function is activated. If the pitch function is not activated the *PITCH KNOB (11)* will not function.
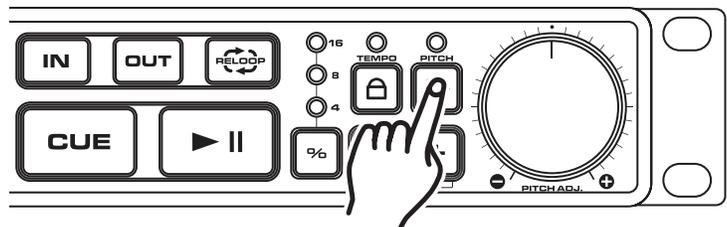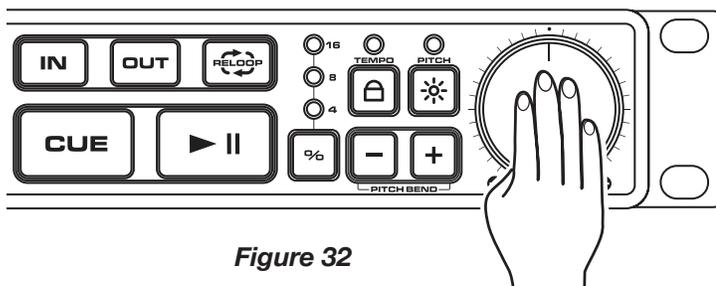

Figure 31

Figure 32

Using the PITCH KNOB (11): Be sure the pitch function has been activated as described above. To use the *PITCH KNOB (11)* turn the knob either clockwise or counter-clockwise. Clockwise will increase the pitch and counter-clockwise will decrease the pitch.
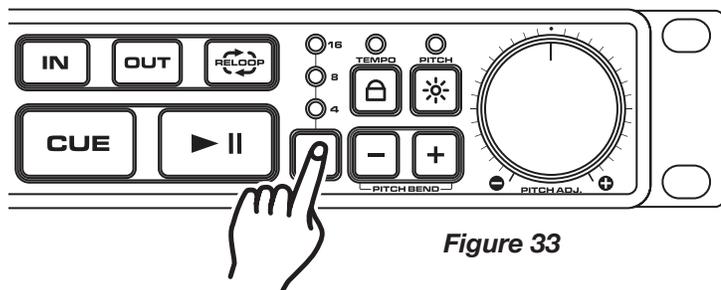
Figure 33

Using the PITCH PERCENTAGE SELECTOR (13): You may choose a pitch operating range at any time. To change the operating range be sure the pitch function is turned on, see figure 31. The pitch percentage can be changed between +/-4%, +/-8%, and +/-16%. 4% will allow the least amount of pitch manipulation and 16% will allow the most amount of pitch manipulation. To adjust the different values, press the *PITCH PERCENTAGE BUTTON (13)* to change the percentage, until your desired percentage is reached.

2. PITCH BENDING:

Unlike the *PITCH KNOB (11)* adjustment this function will <u>momentarily</u> increase or decrease a tracks speed during playback. To operate the PITCH BEND use the *(-) & (+) PITCH BEND BUTTONS (12)*. The maximum pitch bend percentage allowed by *PITCH BUTTONS (12)* is +/-16%. The pitch bend function will work in conjunction with the *PITCH KNOB (11)* pitch setting. For example, if the *PITCH KNOB (11)* is set to a 4% pitch gain the pitch bending process will begin at 4% and will continue to the maximum of +/-16%.

3. PITCH BEND BUTTONS (12):

The *(+) PITCH BEND BUTTON (12)* will increase track playback speed and the *(-) PITCH BEND BUTTON (12)* will decrease track playback speed. The extent to which the speed changes is proportionate to the amount of time the button is pressed. For example, if the *(+) PITCH BEND BUTTON (12)* is held down continuously as in Figure 35, the speed will increases and will continue to increase until it reaches the percentage the *PITCH PERCENTAGE BUTTON (13)* is set to. When you release the *(+) PITCH BEND BUTTON (12)* the speed will automatically return to it's previous set speed.

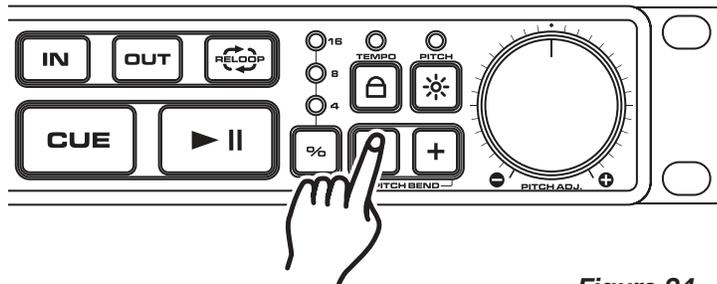Holding down on the *(-) PITCH BEND BUTTON (12)* will provide a slow down in the playback pitch.
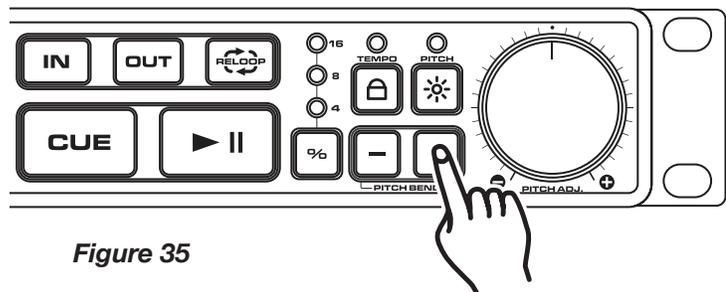

Figure 34

Figure 35

Holding down on the *(+) PITCH BEND BUTTON (12)* will provide a speed bump in the playback pitch.

ADDING MUSIC TO YOUR MEDIA DEVICE

When adding music to your SD Card, USB Stick or Exteran Hard Drive the files must be in Mp3 format. Make a folder for each artist, this will make it easier for you to find your desired songs. ***The file format is Mp3 only.***

Loading music into your SD Card, USB Stick, or External Hard Drive:

1. Insert your desired device into your computer. If there is no SD Card slot available, use an SD Card reader and insert the reader into the USB connection on your computer.

2. The device will appear as "Removable Drive" when you access "My Computer".

3. Go to Windows Explorer or a similar program and simply "drag and drop" your music onto the memory device (Removable Drive). Music will be recorded onto your memory device in the same quality originally recored onto your computer. ***Note: Remember it is better if you make a folder for each artist, and then drop that folder onto your memory device.***

4. Once you are finished loading music, eject the memory device, and load it into the Media Operator.

WARRANTY INFORMATION: The MEDIA OPERATOR™ carries a ONE year (365 days) limited warranty. This warranty covers parts and labor. Please fill out the enclosed warranty card to validate your purchase and warranty. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact American Audio® customer support at (800) 322-6337 for a R.A. number. All package not displaying a R.A. number on the outside of the package will be returned to the shipper.

1-YEAR LIMITED WARRANTY

A. American Audio® hereby warrants, to the original purchaser, American Audio® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the American Audio® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American Audio® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American Audio® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American Audio® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American Audio® factory unless prior written authorization was issued to purchaser by American Audio®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American Audio® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American Audio® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American Audio®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American Audio® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American Audio® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American Audio® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American Audio® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

SPECIFICATIONS

GENERAL	**Model: American Audio® Media Operator™ - Professional SD Player, USB Stick, or External Hard Drive player**
Type:	SD Card and USB audio player.
Pitch Range:	Within +/- 4%, +/- 8%, +/- 16%,
Pitch Bend:	+/- 4%, +/- 8%, +/- 16%,
Pitch Accuracy:	+/-0.15%
Dimensions:	482(W) x 139(H) x 43(D) mm 18.9"(W) x 5.47(H) x 1.69"(D)
Installation:	Place on flat surface or mount in flat case
Weight:	3.74 Lbs. / 1.7 Kgs
Power supply:	DC 6V 1.5A Single Voltage: AC 100V, 50/60Hz (Japan) AC 110V, 60Hz (Colombia) AC 120V, 60Hz (U.S.A. and Canada) AC 127V, 60Hz (Mexico) AC 220V, 50Hz (Chile and Argentina) AC 220V, 60Hz (Philippines and Korea) AC 230V, 50Hz (Europe, New Zealand, South Africa, and Singapore) AC 240V, 50Hz (Australia and U.K.)
Power consumption:	4.5W
Environmental conditions:	Operational temperature: 5 to 35℃ (41 to 95℉) Operational humidity: 25 to 85% RH (no condensation) Storage temperature: -10 to 60℃ (14 to 140℉)
Accessories:	Connecting RCA Cables Voltage Adaptor SD Card and Reader

AUDIO CHARACTERISTICS: Mp3, 128KBPS; LOAD=100K (UNBALANCED), 600 (BALANCED) OHM
PLAYER SECTION:

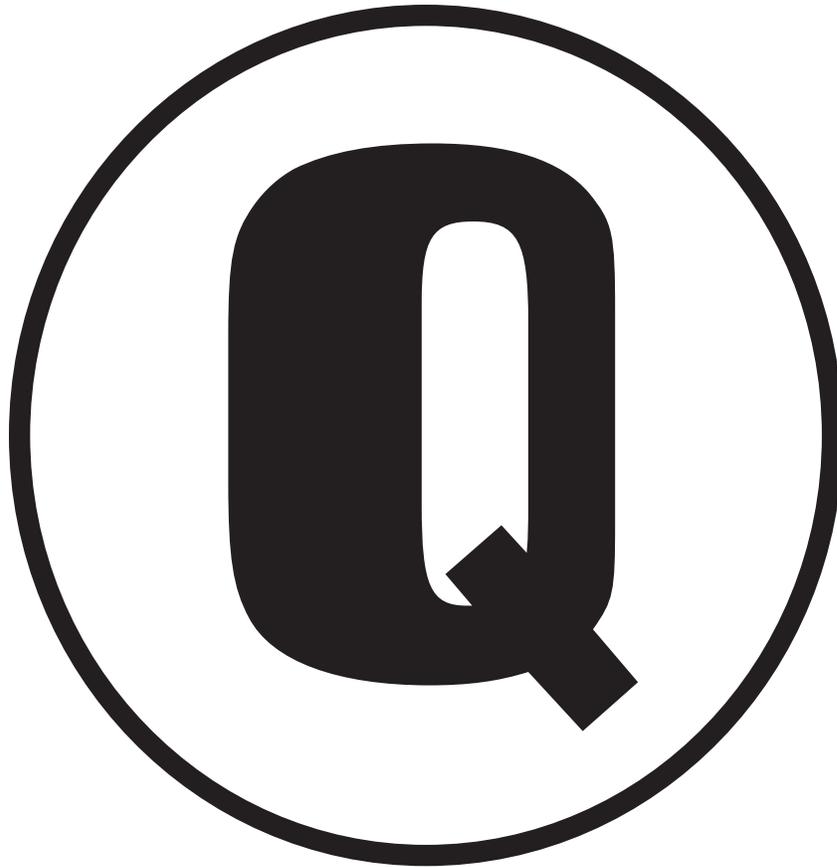| ITEM	NORMAL	LIMIT	CONDITION
Output Impedance			
Unbalanced	1Kohm +/-5%	1Kohm +/-10%	1KHz
Balanced	600ohm +/-5%	600ohm +/-10%	1KHz
Output Level			
Unbalanced	2VRMS +/-0.5dB	2VRMS +/-1dB	1KHz, 0dB (TCD782, TRK2)
Balanced	2VRMS +/-0.5dB	2VRMS +/-1dB	1KHz, 0dB (TCD782, TRK2)
Channel balance	Within 0.5dB	Within 1dB	1KHz, 0dB (TCD782, TRK2)
Frequency response	17-16KHz +/-0.3dB	17-16KHz +/-1dB	0dB Output (TCD781, TRK1/4/16)
Channel Seperation	89dB	85dB	1KHz,0dB(TCD782,TRK9/11)
T.H.D. + NOISE (*1)	0.006%	0.02%	1KHz,0dB (TCD782, TRK2)
S/N ratio (*2)	97dB	90dB	1KHz,0dB(TCD782, TRK2/8)
Dynamic Range	93dB	88dB	1KHz,-60dB (TCD782, TRK18)

*NOTE: * With 20KHz low pass filter.*

MIC SECTION:

ITEM	NORMAL	LIMIT	CONDITION
Input Impedance	10Kohm +/-5%	10Kohm +/-10%	1KHz
Input Sensitivity	-38dBV	-38dBV +/-2dB	1KHz, 0dBV Output
Maximum Input	-31dB	More than -32dBV	1KHz, Output THD=1%
Frequency response	20-20KHz +/-2.4dB	20-20KHz +0/-3dB	0dB Output
T.H.D. + NOISE (*2)	0.024%	0.05%	1KHz, 0dBV Output
S/N ratio (*2)	91dB	85dB	1KHz, 0dBV Output AUTO MUTE ON
	76dB	70dB	1KHz, 0dBV Output AUTO MUTE OFF

Please Note: *All specifications and improvements to and in the design of this unit and this manuals are subject to change at any time without any prior written or published noticed.*

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