

# RANE TTM57mkII MIXER MANUAL

## Important Safety Instructions



1. Read these instructions.
  2. Keep these instructions.
  3. Heed all warnings.
  4. Follow all instructions.
  5. Do not use this apparatus near water.
  6. Clean only with a dry cloth.
  7. Do not block any ventilation openings. Install in accordance with manufacturer's instructions.
  8. Do not install near any heat sources such as radiators, registers, stoves, or other apparatus (including amplifiers) that produce heat.
  9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
  10. Protect the power cord and plug from being walked on or pinched particularly at plugs, convenience receptacles, and the point where it exits from the apparatus.
  11. Only use attachments and accessories specified by Rane.
  12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
  13. Unplug this apparatus during lightning storms or when unused for long periods of time.
  14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
  15. The plug on the power cord is the AC mains disconnect device and must remain readily operable. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
  16. This apparatus shall be connected to a mains socket outlet with a protective earthing connection.
  17. When permanently connected, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.
  18. If rackmounting, provide adequate ventilation. Equipment may be located above or below this apparatus, but some equipment (like large power amplifiers) may cause an unacceptable amount of hum or may generate too much heat and degrade the performance of this apparatus.
  19. This apparatus may be installed in an industry standard equipment rack. Use screws through all mounting holes to provide the best support.
- WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

### WARNING



To reduce the risk of electrical shock, do not open the unit. No user serviceable parts inside. Refer servicing to qualified service personnel.

The symbols shown below are internationally accepted symbols that warn of potential hazards with electrical products.



This symbol indicates that a dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

**WARNING:** This product may contain chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by Rane Corporation could void the user's authority to operate the equipment. This Class B digital apparatus complies with Canadian ICES-003.

**RANE**

**TTM57mkII**

## Instructions de Sécurité



1. Lisez ces instructions.
2. Gardez précieusement ces instructions.
3. Respectez les avertissements.
4. Suivez toutes les instructions.
5. Ne pas utiliser près d'une source d'eau.
6. Ne nettoyer qu'avec un chiffon doux.
7. N'obstruer aucune évacuation d'air. Effectuez l'installation en suivant les instructions du fabricant.
8. Ne pas disposer près d'une source de chaleur, c-à-d tout appareil produisant de la chaleur sans exception.
9. Ne pas modifier le cordon d'alimentation. Un cordon polarisé possède 2 lames, l'une plus large que l'autre. Un cordon avec tresse de masse possède 2 lames plus une 3è pour la terre. La lame large ou la tresse de masse assurent votre sécurité. Si le cordon fourni ne correspond pas à votre prise, contactez votre électricien.
10. Faites en sorte que le cordon ne soit pas piétiné, ni au niveau du fil, ni au niveau de ses broches, ni au niveau des connecteurs de vos appareils.
11. N'utilisez que des accessoires recommandés par Rane.
12. N'utilisez que les éléments de transport, stands, pieds ou tables spécifiés par le fabricant ou vendu avec l'appareil. Quand vous utilisez une valise de transport, prenez soin de vous déplacer avec cet équipement avec prudence afin d'éviter tout risque de blessure.
13. Débranchez cet appareil pendant un orage ou si vous ne l'utilisez pas pendant un certain temps.
14. Adressez-vous à du personnel qualifié pour tout service après vente. Celui-ci est nécessaire dans n'importe quel cas où l'appareil est abîmé : si le cordon ou les fiches sont endommagés, si du liquide a été renversé ou si des objets sont tombés sur l'appareil, si celui-ci a été exposé à la pluie ou l'humidité, s'il ne fonctionne pas correctement ou est tombé.
15. La fiche du cordon d'alimentation sert à brancher le courant alternatif AC et doit absolument rester accessible. Pour déconnecter totalement l'appareil du secteur, débranchez le câble d'alimentation de la prise secteur.
16. Cet appareil doit être branché à une prise terre avec protection.
17. Quand il est branché de manière permanente, un disjoncteur tripolaire normalisé doit être incorporé dans l'installation électrique de l'immeuble.
18. En cas de montage en rack, laissez un espace suffisant pour la ventilation. Vous pouvez disposer d'autres appareils au-dessus ou en-dessous de celui-ci, mais certains (tels que de gros amplificateurs) peuvent provoquer un buzz ou générer trop de chaleur au risque d'endommager votre appareil et dégrader ses performances.
19. Cet appareil peut-être installé dans une baie standard ou un châssis normalisé pour un montage en rack. Visser chaque trou de chaque oreille de rack pour une meilleure fixation et sécurité.

**ATTENTION:** afin d'éviter tout risque de feu ou de choc électrique, gardez cet appareil éloigné de toute source d'humidité et d'éclaboussures quelles qu'elles soient. L'appareil doit également être éloigné de tout objet possédant du liquide (boisson en bouteilles, vases,...).

### ATTENTION



Afin d'éviter tout risque de choc électrique, ne pas ouvrir l'appareil. Aucune pièce ne peut être changée par l'utilisateur. Contactez un SAV qualifié pour toute intervention.

Les symboles ci-dessous sont reconnus internationalement comme prévenant tout risque électrique.



Ce symbole indique que cette unité utilise un voltage élevé constituant un risque de choc électrique.



Ce symbole indique la présence d'instructions d'utilisation et de maintenance importantes dans le document fourni.

REMARQUE: Cet équipement a été testé et approuvé conforme aux limites pour un appareil numérique de classe B, conformément au chapitre 15 des règles de la FCC. Ces limites sont établis pour fournir une protection raisonnable contre tout risque d'interférences et peuvent provoquer une énergie de radiofréquence s'il n'est pas installé et utilisé conformément aux instructions, peut également provoquer des interférences aux niveaux des équipements de communication. Cependant, il n'existe aucune garantie que de telles interférences ne se produiront pas dans une installation particulière. Si cet équipement provoque des interférences en réception radio ou télévision, ceci peut être détecté en mettant l'équipement sous/hors tension, l'utilisateur est encouragé à essayer de corriger cette interférence par une ou plusieurs des mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Connecter l'équipement à une sortie sur un circuit différent de celui sur lequel le récepteur est branché.
- Consulter un revendeur ou un technicien radio / TV expérimenté.

**ATTENTION:** Les changements ou modifications non expressément approuvés par Rane Corporation peuvent annuler l'autorité de l'utilisateur à manipuler cet équipement et rendre ainsi nulles toutes les conditions de garantie.

Cet appareil numérique de classe B est conforme à la norme Canadienne ICES-003.

Cet appareil numérique de classe B est conforme à la norme Canadienne NMB-003.

## Copyright Notices

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## Check List

**These items are included in the box:**

- **TTM57mkII Mixer.**
- **Serato DJ software and drivers install disc.**
- **2 (two) control CDs.**
- **2 (two) control records.**
- **USB cable.**
- **IEC C5 line cord.**
- **Serato DJ Software Manual.**
- **This TTM57mkII Mixer Manual.**

## Wear Parts

The TTM57mkII Mixer contains no wear parts. The control vinyl records and CDs are wear parts as described in "Limited Warranties" on page 33.

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## TTM57mkII Overview

The Mic input can be switched for a regular dynamic mic or to line-level for a wireless mic. It has its own meter, Level and a one-knob tone control.

Two Program buses with Gain trim and meters:

- Select USB Port A or B computer playback.
- Select Two Phono / CD deck inputs.
- Select Two Aux line-level inputs.
- 3-band full-cut tone controls with kill switches.
- Sweepable Low / High-pass effect Filter.

Level control for each Output:

- Main Outputs on XLR
- Booth Outputs on TRS
- Session Outputs on RCA

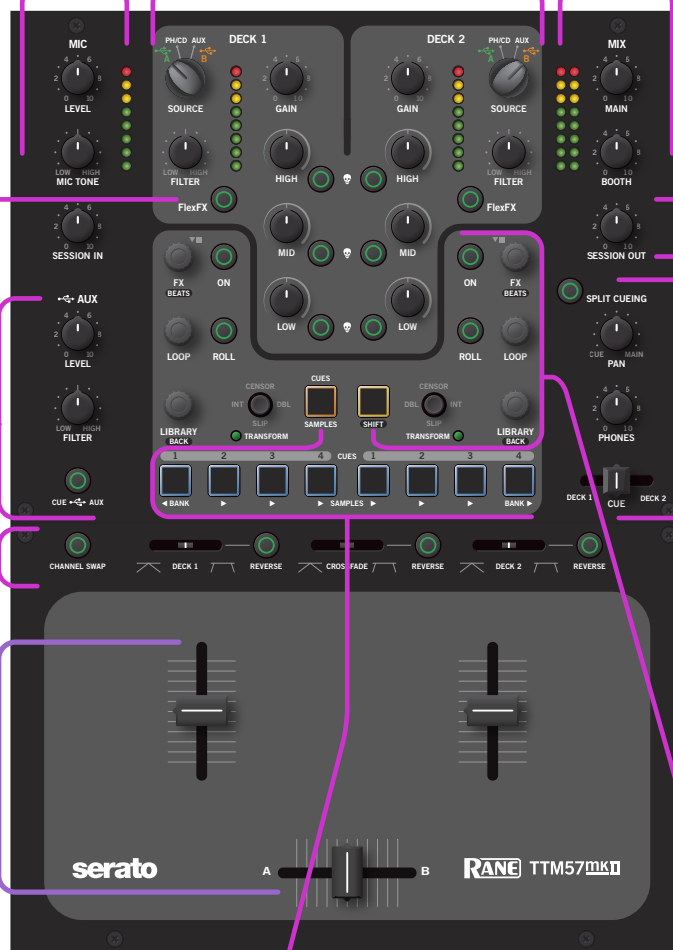
The FlexFX external FX Loop can assign the Left Deck, Right Deck or Both to an external analog FX Loop, independent of USB software FX inserts.

The USB Aux Input is usually from the Serato SP-6 Sample Player, with its own Level control, Low / High-pass sweep Filter and headphone cue. The USB Cue overrides the Deck Cue when on.

Channel Swap switches the left or right fader between Deck 1 and Deck 2. Contour controls adjust the faders and crossfader for a smooth transition or a fast cut. Faders can be individually reversed.

The Crossfader and channel faders are Rane's famous and dependable no-noise, no-bleed, no-contact magnetic faders.

The front panel accepts either 3.5mm or 1/4" headphone plugs. A footswitch (optional) can be connected to access learned MIDI functions.



Session Input (opposite side) can connect an output from another mixer, or use it as another auxiliary input. Session Output connects to an input of another mixer, to connect two mixers together.

True Split Cue or Stereo Cue with classic Left Deck and Right Deck slide control.

Direct control of Serato DJ Decks:

- Software FX on/off button.
- FX knob parameter adjustment:
  - Press to select the FX.
  - Hold SHIFT to change the Beats multiplier.
- LOOP knob selects loop length.
  - Press it to engage Auto Loop.
  - Hold ROLL for Loop Roll.
- LIBRARY knob scrolls songs or crates, press to load.
  - Hold SHIFT to tab between song and crate selection.
- TRANSFORM joystick:
  - Press for Transform on/off.
  - Transform on: any direction cuts the audio.
  - Transform off: multifunction software control (gray text).

Direct control of Serato DJ Cues and Samples:

- CUES / SAMPLES button toggles between Cues and Samples.
- Cue 1-4 or 5-8 for each Deck. The active USB follows the Deck source selection.
  - Lit button colors match the Cue colors in Serato DJ software.
  - Press an un-lit button to create a new Cue. Hold SHIFT to delete a Cue.
- Six Sample triggers and Bank up and Bank down selectors.
  - Lit button indicates a ready-to-play sample in Serato DJ.

## Quick Start: Software

Before using your mixer, at least read this short section for the basics. Read the complete manual to get the best investment from your new TTM57mkII. This section will help get you started with one computer.

### Class Compliant Audio and MIDI

The USB ports are 100% class compliant, allowing hook-up to any Mac OSX computer without the need for an additional driver. A high-performance ASIO driver is installed with the Serato DJ installer to run most Windows DAW and DJ software. A TTM57mkII control panel delivering additional mixer options is installed with the Serato DJ installer on both Mac and Windows. MIDI end points are class compliant with both OSX and Windows devices. See "Class Compliant USB Ports" on page 19.

### Serato DJ Software Installation for Mac OSX

Before installing, we recommend you check for a newer version of Serato DJ at [serato.com/dj/downloads](http://serato.com/dj/downloads) and install the latest version if it is newer than the version on the CD-ROM that comes with your mixer.



1. Insert the Serato DJ Installer CD-ROM that came with your unit,  
-or-  
browse using Finder to the location where the Serato DJ download was saved.
2. Double-click the Serato DJ .dmg installer file.
3. The software EULA screen will appear - read the License Agreement, then click Agree.
4. The disk image mounts and opens the actions folder, once this is finished you can unmount the disk image and launch Serato DJ.
5. Drag the Serato DJ application icon to the Applications folder alias.
6. You may then need to enter your User Password to authenticate.
7. Serato DJ will now copy to the Applications folder, once this is finished you can unmount the disk image and launch Serato DJ.

### Serato DJ Software Installation for Windows

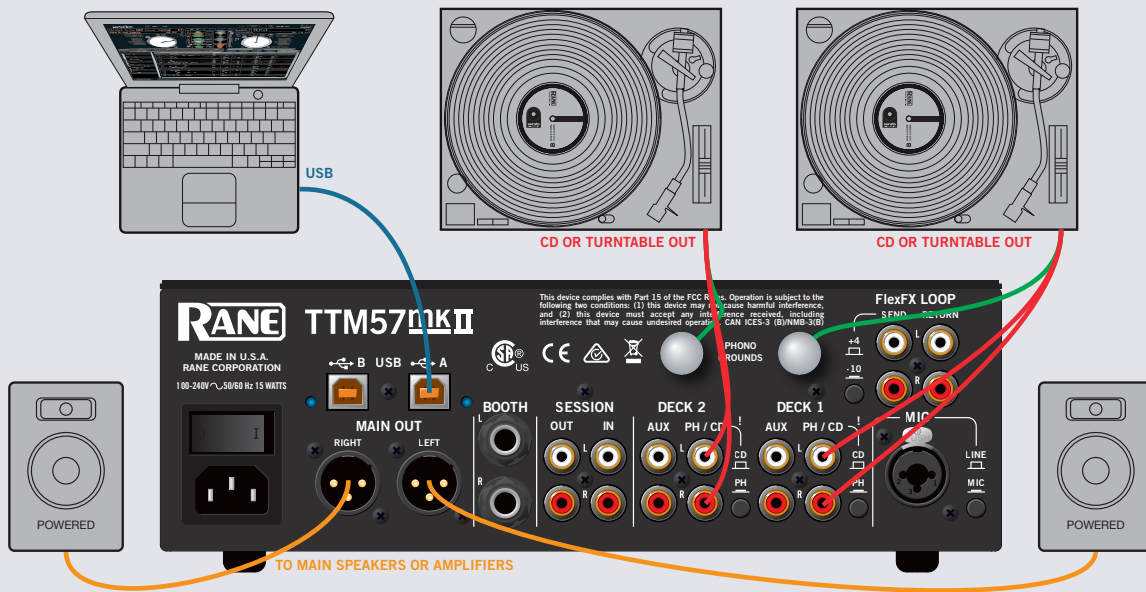
Before installing, we recommend you download and install the latest Serato DJ version from [serato.com/dj/downloads](http://serato.com/dj/downloads) if it is newer than the version on the CD-ROM that comes with your mixer.

1. Insert the Serato DJ Installer CD-ROM that came with your unit,  
-or-  
browse using Windows Explorer to the location where the Serato DJ download installer was saved.
  2. Double click the SeratoDJ\_installer.exe file.
  3. Accept the Security Warning and click "Run".
  4. The installer introduction screen will appear, click Next.
  5. Read the License Agreement, then tick "I agree to the license terms and conditions," then click Install.
  6. If a User Account Control window appears, click Yes.
  7. Serato DJ will now perform a standard installation.
  8. The installation is now complete. You can now click Close.
- NOTE: A shortcut will be also be created on your desktop.

**When you first connect your TTM57mkII Mixer via USB in Windows**, you may see a request to install drivers. Accept the request and allow the driver installation to proceed. After drivers are installed, a TTM57mkII control panel will be available, and your software will recognize the mixer.

After Serato DJ is installed, you will be prompted to "Install Driver" in the Online Panel if you connect a new compatible device that has not already had its driver installed.





## Quick Start: Hardware

This guide will help you get your decks connected and music playing on one computer. Leave the power off until your decks and amplifiers are connected.

1. Connect your Left deck's RCA cables to DECK 1 PH / CD.
  - If it's a CD player, release the CD button next to these jacks so it's out.
  - If it's a turntable, push the CD button next to these jacks so it's in. Secure the ground wire to a Phono Ground terminal.
2. Set the **SOURCE** selector for **DECK 1**. This lets the left PH / CD 1 deck play directly. To play from Serato DJ, choose **A**.
3. Connect your Right deck's RCA cables to DECK 2 PH / CD.
  - Select **CD** or **PH** as in step 1.
4. Set the **SOURCE** selector for **DECK 2**. This lets the right PH / CD 2 deck play directly. To play from Serato DJ, choose **A**.
5. Connect one of the outputs to amplifiers or powered speakers.
  - **Main Out** is on a pair of balanced XLR jacks with pin 2 "hot" per AES standards.
  - **Booth Out** is on a pair of balanced 1/4" TRS (tip-ring-sleeve) jacks.
  - **Session Out** is on a pair of unbalanced RCA jacks.

The Main, Booth and Session outputs arrive from the same "Main Mix" signal. Main, Booth and Session outputs each have their own **LEVEL** control. Because all signals are identical, you may use any of these outputs as the "Main" output if a different cable type is required to your speaker amplifiers.

Rane recommends balanced wiring (3-conductor) for the strongest signal and rejection of hum and noise. If your cable to the destination is less than 10 feet (3 meters), you can often get away with an unbalanced cable. See the RaneNote "[Sound System Interconnection](#)" at rane.com for cable wiring recommendations.



## Quick Start: Operation

### Calibrating Serato DJ for Control Vinyl or CD

Since Serato DJ is controlled by an analog signal, there is no guarantee of what state that signal will be in by the time the software gets to interpret it. Therefore, Serato DJ needs to be able to handle a wide range of signals, and be configurable to use them optimally. Calibrating is just configuring the software to your situation. Calibration is equally important for both vinyl and CD users of Serato DJ.

There are two parts to the Serato DJ Control Vinyl: The directional tone, and the NoiseMap™. Listening to the control vinyl, the directional tone is the 1 kHz tone. The noise map sounds like random noise over the top of the tone. The directional tone provides the current speed and direction of the record, while the noise map tells the software precisely where on the record the needle is currently.

The Noise Sensitivity slider lets you adjust the noise threshold. A threshold is a lower limit, below which a process will not occur. In the case of Serato DJ, the noise threshold is the limit below which the input signal will not be interpreted as control signal; in other words if it's below the threshold, it is considered noise and ignored.

This setting is necessary because a stylus is very sensitive, and will inevitably pick up noise from the environment as well as the signal on the record, especially in the noisy environment of a live show.

### How To Calibrate Serato DJ

With music playing in the background through your system or booth output, put your needle on the record with the turntable stopped. If you are using CD players, the same rules apply. Have the CD deck paused or stopped while calibrating.

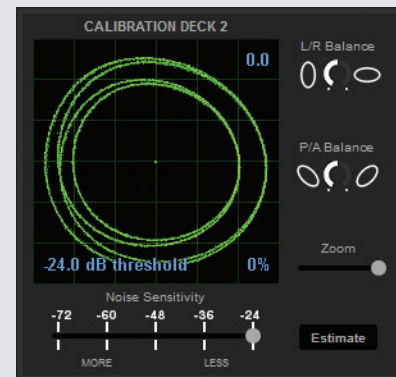
Click and hold the estimate button until the slider stops moving. Moving the Noise Sensitivity slider to the left will make Serato DJ more sensitive to slow record movement, but also more sensitive to background noise.

Repeat the process for each deck.

Things to remember:

- Your needle must be on the record.
- Your turntable (or CD player) must be stationary.
- The background music playing must be at a similar level to which you will play your set at.
- Calibrate Serato DJ every time you play.

**TIP:** If the slider jumps to the far right, then you have a problem with noise in your turntables/CD players/mixer. Check all your connections and make sure your equipment is well earthed. In some situations you will not be able to improve the signal quality, and you will have to play on regardless. In this situation, stick to **rel** mode.



### The Scopes

The scopes on the setup screen in Serato DJ display the input signal as a phase diagram. The key factors to look at on the scope display are crisp clean lines, round shape, and the tracking percentage in the lower right corner.

Start both turntables or CD players. You will see green rings appear in the scope view, as shown above.

For optimal performance the inner ring should be as close to circular as possible. Use the scope Zoom slider to fill the view. Use the scope L/R balance and P/A balance controls to adjust the shape of the inner ring. The number in the top left corner of the scope view gives the current absolute position within the control record or CD. The number in the top right corner is the current speed in RPM. In the bottom left is the current threshold setting, and the number in the bottom right shows the percentage of readable signal – this number should be close to 85% when your system is calibrated properly.

**For complete software operating instructions, see the Serato DJ Manual.**

## Audio Connections

### Analog Inputs

Two Phono / CD inputs may each be set for **PH** or **CD** using the rear panel buttons, **in** for a turntable and **out** for a CD deck. Two more RCA **Aux** inputs are provided, one for each input channel. This configuration allows you to connect the Aux inputs to a pair of CD decks, while the PH/CD inputs connect to a pair of turntables or two more CD decks. Connect your turntable ground wires to the **PHONO GROUNDS** posts when using **PH** inputs.

One stereo Session Input is on a pair of RCA input jacks. This input may connect two mixers together or as a general purpose auxiliary input to the mixer.

The Mic Input will accept an XLR 3-pin plug, a balanced ¼" TRS (tip-ring-sleeve) plug or an unbalanced TS (tip-sleeve) plug. This input may be set for Microphone or Line level using the **MIC - LINE** button on the rear panel. Set this to Line (button out) when connecting a wireless receiver.

A stereo FlexFX Loop Return input is on unbalanced RCA jacks. The FlexFX Return input is normally used along with the FlexFX Send output to connect an outboard analog effects processor.

Phono Sensitivity can be adjusted in the "Deck Inputs 1-2 Control Panel" on page 20.

### Analog Outputs

There are five stereo analog outputs available on the mixer:

- **MAIN OUT** is on a pair of balanced XLR jacks with pin 2 "hot" per AES standards.
- **BOOTH OUT** is on a pair of balanced ¼" TRS jacks.
- **SESSION OUT** is available on a pair of unbalanced RCA jacks.
- **FLEXFX LOOP SEND** output is available on a pair of unbalanced RCA jacks. The FlexFX Send output is normally used along with the **FLEXFX LOOP RETURN** input to connect outboard effects. The +4 / -10 switch changes the send level for your effects device. Typically, RCA connections prefer the -10 setting, and ¼" devices may sound better with the +4 setting. Consult your effects device manual.

The Main, Booth and Session outputs arrive from the same "Main Mix" signal. Main, Booth and Session outputs each have their own **LEVEL** control. Because all signals are identical, you may use any of these outputs as the "Main" output if a different cable type is required for system connection.

Rane recommends balanced wiring for the strongest signal and rejection of hum and noise. If your cable to the destination is less than 10 feet (3 meters), you can often get away with an unbalanced cable. See the RaneNote "[Sound System Interconnection](#)" at [rane.com](#) for cable wiring recommendations.

### Power Supply

This mixer features an internal universal switching power supply that operates on any AC mains 100 to 240 VAC, 50 or 60 Hz (most places in the world). The universal supply is a major plus for the traveling DJ, who only needs the right IEC line cord, available from a local electronics store. Though this mixer has turn on/off muting, it's smart to leave the power unplugged until everything else is connected.

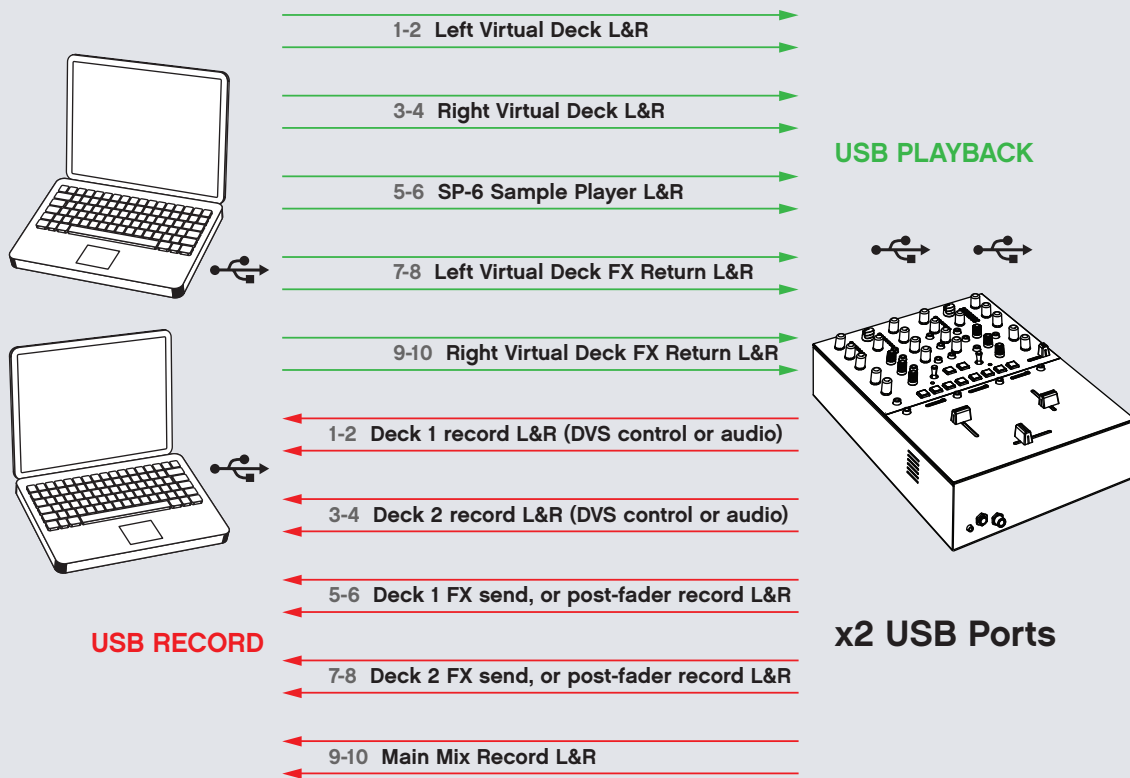


## Two USB Ports

There are five stereo record channels and five stereo playback channels. These channels are simultaneously available on two USB ports, allowing two computers to share the device. This allows two DJs to play together and supports uninterrupted transitions from one DJ to another.

Rane class-compliant audio compatibility and a Windows ASIO driver allows the TTM57mkII to act as a 10-record 10-playback USB sound card for use with Serato DJ and most DJ and DAW programs. Multiple applications on one or two computers can share the mixer at the same time.

Each of the two USB ports are completely independent. It is possible to run Serato DJ on one computer while running third-party software on the other, Mac or PC. See how to share the TTM57 in "DJ Changeover" on page 18.



USB Playback	Stereo Pair	Serato DJ Description	Mixer Use
1	1-2	Left Virtual Deck Output	Select as Deck 1 Source from  A or  B
2	3-4	Right Virtual Deck Output	Select as Deck 2 Source from  A or  B
3	5-6	SP-6 Output Option	AUX Source
4	7-8	Left Deck FX Return to the Mixer	Deck 1 FX Return
5	9-10	Right Deck FX Return to the Mixer	Deck 2 FX Return
<b>USB Record</b>			
1	1-2	Record or DVS Control for Left Deck	Deck 1 Pre-fader; Record PH/CD 1 or AUX 1*
2	3-4	Record or DVS Control for Right Deck	Deck 2 Pre-fader; Record PH/CD 2 or AUX 2*
3	5-6	Left Deck FX Send from the Mixer	Deck 1 Post-fader; Send to Deck 1 FX
4	7-8	Right Deck FX Send from the Mixer	Deck 2 Post-fader; Send to Deck 2 FX
6	9-10	Record the Main Mix	Main Mix Output, Pre-Level control.

\*Select the USB Record Source in the "Deck Inputs 1-2 Control Panel" on page 20.

## Deck Input Channels

### Source

The **SOURCE** selector for **DECK 1** selects one of four sources:

- **A** Left Virtual Deck (USB stereo playback pair 1-2) from USB A.
  - Assigns MIDI controls for the Left Deck software and Deck 1 mixer to USB A.
- **PH / CD (THRU)**: Set to **PH** or **CD** on the rear panel.
  - When selected in software, this input is available on USB record 1-2 for use as the DVS control signal or for audio recording. Select this control source in the "Deck Inputs 1-2 Control Panel" on page 20.
- **AUX (THRU)**.
  - When selected in software, this input is available on USB record 1-2 for use as the DVS control signal or for audio recording. Select this control source in the "Deck Inputs 1-2 Control Panel" on page 20.
- **B** Left Virtual Deck (USB stereo playback pair 1-2) from USB B.
  - Also assigns the MIDI controls for the Left Deck software and Deck 1 mixer to USB B.



The **SOURCE** selector for **DECK 2** selects one of four sources:

- **A** Right Virtual Deck (USB stereo playback pair 3-4) from USB A.
  - Also assigns the MIDI controls for the Right Deck software and Deck 2 mixer to USB A.
- **PH / CD (THRU)**: Set to **PH** or **CD** with the rear panel switch.
  - When selected in software, this input is available on USB record 3-4 for use as the DVS control signal or for audio recording. Select this control source in the "Deck Inputs 1-2 Control Panel" on page 20.
- **AUX (THRU)**.
  - When selected in software, this input is available on USB record 3-4 for use as the DVS control signal or for audio recording. Select this control source in the "Deck Inputs 1-2 Control Panel" on page 20.
- **B** Right Virtual Deck (USB stereo playback pair 3-4) from USB B.
  - Also assigns the MIDI controls for the Left Deck software and Deck 2 mixer to USB B.

### Gain

This adjusts the Deck input level from off to +15 dB. Unity gain (no boost or cut) is at 12 o'clock. Each Deck channel has a mono meter to assist setting gain. These meters are quasi-peak with peak hold. Use the **GAIN** control to stay out of the red.

### Tone Controls and Kill Buttons

**HIGH**, **MID** and **LOW** full-cut isolator tone controls adjust the frequency response from off to +6 dB. Unity gain (no boost or cut) is at 12 o'clock. Each tone control has a kill switch with two modes:

- Pressing a kill button will cut the tone, as if its control is fully off (CCW). Releasing the button returns the tone to where the control is set. Use this to drop the bass, mid or highs for a moment of suspense.
- Pressing the Shift button before pressing a kill button locks the tone off, and stays off after the kill is released. Pressing the kill button again removes the kill, unlocking the tone to where its control is set.
- Crossover points for Low/Mid and Mid/High default at 300 Hz between Low and Mid, 3 kHz between Mid and High. This can be changed for each Deck. See "Deck Inputs 1-2 Control Panel" on page 20

### Filter

The Filter sweeps from Low-Pass to High-Pass. Set it to 12 o'clock for a flat "no-filter" response. Moving the Filter toward the **LOW** position progressively reduces high frequencies. Moving the Filter toward the **HIGH** position progressively reduces low frequencies. The Resonance or Q of each of these Filters can be adjusted in the "Deck Inputs 1-2 Control Panel" on page 20. High resonance adds a "zip" effect to the Filter when it is moved. Low resonance is best when the Filter is used for mixing.

### FlexFX

The **FlexFX** buttons assign a Deck to the FlexFX Loop where an external effects unit may be connected.

1. Connect the FlexFX Loop SEND to the input of your external effects processor.
2. Connect the output of the effects processor to the FlexFX Loop RETURN.
  - a. If you use a consumer-grade effects processor, such as the Korg Kaoss Pad, engage the -10 switch by pressing it in. This matches the I/O level of the external effects processor to the mixer.
3. Simply press the **FlexFX** button to engage the Loop. This is independent of Serato DJ FX.



### Mic Input

The Mic input comes from a rear panel XLR/TRS combo jack. A rear panel switch by this jack selects different mic types:

- LINE level accepts the output from a wireless mic receiver.
- MIC level is suitable for a dynamic mic.
- **MIC LEVEL** the mic is off at "0" and is turned up as the knob is rotated clockwise.
- **MIC TONE** is a spectral tilt bass and treble control.
  - Increasing highs reduces lows by the same amount.
  - Decreasing highs increases lows by the same amount.

### Session In and Out

The **SESSION IN** has its own level control and may be used as a general purpose analog stereo AUX input from RCA jacks. **SESSION IN** and **SESSION OUT** are typically used to chain mixers together, though any line-level device may be connected to the Session Input and mixed here.

### Aux

This digital input is on USB playback stereo pair 5-6 and is normally used in Serato DJ with the SP-6 Sample Player.

To enable the SP-6, go to Setup > Expansion Packs > SP-6 Sample Player and check the box for "Enable SP-6 Sample Player."

To assign the SP-6 Sample Player to **AUX**, click the SP-6 tab at the top of the main software screen and select SP-6 Output as "A."


This **AUX** input has its own **LEVEL**, **FILTER** and **CUE**. The Filter behaves the same as those on the Deck inputs. The Resonance for the Aux Filter can be

adjusted in the "General Control Panel" on page 21.

## Main and Booth

The Main and Booth outputs each have their own **LEVEL** control. The Main outputs use balanced XLR connectors and the Booth outputs use balanced ¼" TRS connectors. Since the Main, Booth and Session Outputs have the same Mix, you can run any of them to your main amplifier if the proper cables are not available. The Main Mix section has a quasi-peak stereo meter with peak hold. The Main Mix can be set to Stereo or Mono in the Rane Control Panel. Booth and Session Outputs are always in stereo. See the "General Control Panel" on page 21.

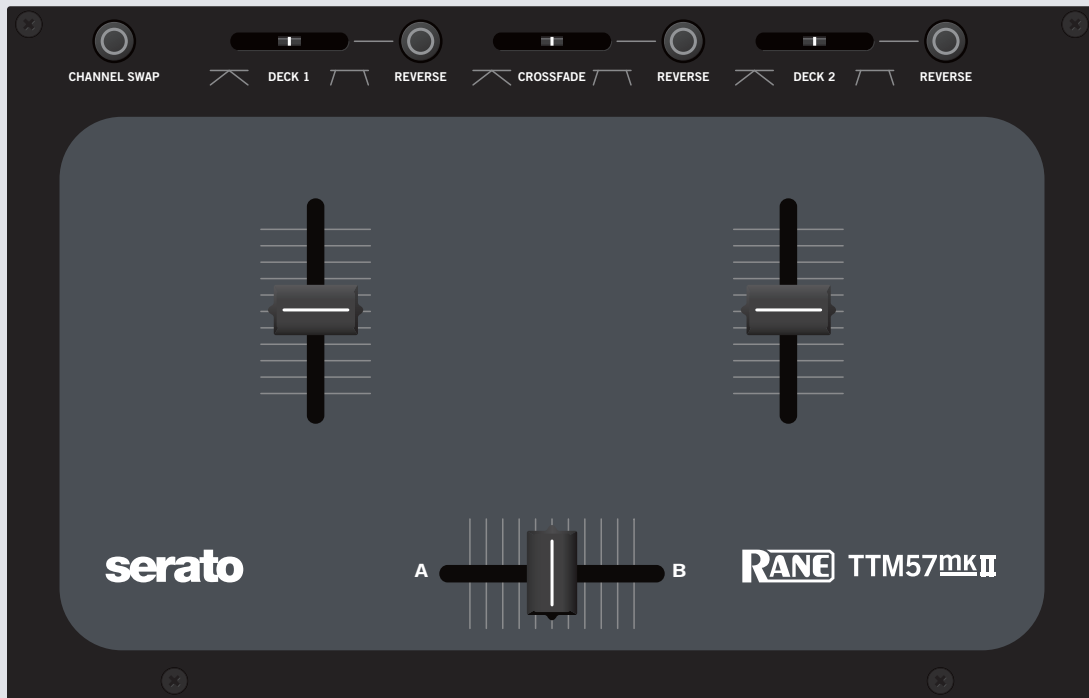
## Headphone Cue

Deck 1, Deck 2, and USB Aux can each be cued in the headphones before bringing into the mix. USB Aux has it's own **CUE**  **AUX** button. The Deck cues are determined by a slide control, as they were on the original TTM57SL.

- The Headphone monitor provides stereo or mono split cue operation.
  - When set for stereo operation (**SPLIT CUE** button off), the **PAN** control pans between stereo Cue and stereo Main Mix.
  - When set for Split Cue operation (**SPLIT CUE** button On), the **PAN** control pans between Mono Cue in the left ear and mono Main Mix in the right ear.
- The **PHONES** control sets the volume sent to the headphone jacks.
- The **CUE** slider cues Deck 1 or Deck 2 by moving the slider accordingly.
- Headphone ¼" and 3.5 mm jacks are on the front panel. Both share the same mix.

## Channel Faders & Crossfader

These faders use magnetic non-contact mechanisms with no noise and no bleed. Each fader has **REVERSE** and **CONTOUR** controls. Normally, Deck 1 is routed to the left fader and left side of the crossfader, while Deck 2 is routed to the right. When activated, **CHANNEL SWAP** puts Deck 1 on the right, and Deck 2 on the left. See "Magnetic Fader Maintenance" on page 30.



## Software Controls

The TTM57mkII Mixer has dedicated Serato DJ software controls. Virtual Deck and associated controls are assigned to **A** or **B** using the **DECK 1** and **DECK 2 SOURCE** selectors. This allows completely independent software control for each port. Simply, **DECK 1** has the left side controls, and **DECK 2** has the right side controls (with the exception of Samples). See the descriptions for DJ-FX, Looping, Library, Internal mode, Instant doubles, Censor, Slip mode, Cue Points and the SP-6 Sample Player in the Serato DJ manual.



### FX encoder, On & Shift buttons

Each Deck of the mixer has a dedicated USB Insert for post-fader software effects. The USB FX loop is disabled when USB is not connected. The USB FX loop is enabled automatically with Serato DJ, and can be enabled in other programs through the "Deck Inputs 1-2 Control Panel" on page 20. Audio will always be sent to the computer and returned with the FX on/off state determined in software. The result is no loss of audio or shift in latency when an effect is engaged.

- The **FX** encoder adjusts the primary parameter of the selected effect.
- Holding **SHIFT** and adjusting the encoder changes the **FX BEATS** Multiplier.
- The **ON** button lets you turn an effect on and off.

#### *To change an effect:*

- Press the **FX** encoder, the **ON** button flashes, and an FX menu appears in Serato DJ.
- Turn the **FX** encoder to highlight an effect.
- Press the **FX** encoder to select the effect, and the **ON** button stops flashing and goes dark.
- Hold the **SHIFT** button down and rotate the **FX** encoder to adjust the **FX BEATS** Multiplier.
- The new effect is ready to use.
- Press **ON**.
- Turn the **FX** encoder CCW to make it more Dry, and turn it CW to make it more Wet.

### Loop encoder and Roll button

Two modes of operation are supported: Auto Looping and Loop Roll.

#### *Auto Looping workflow:*

- Turn the **LOOP** encoder to select a length as displayed in Serato DJ.
- Press the **LOOP** encoder to engage the loop.
- While the Loop is active, turn the **LOOP** encoder to expand or contract the Loop.
- While the Loop is active, press the **LOOP** encoder to exit the loop.

#### *Loop Roll workflow:*

- Turn the **LOOP** encoder to select a length as displayed in Serato DJ.
- Press the **ROLL** button to engage the loop. The loop continues to play while the button is held.
- While holding the **ROLL** button down, turn the **LOOP** encoder to expand or contract the loop.
- To end the Loop, release the **ROLL** button, and the track moves forward to where it would have been without the loop.



**Library encoder and Shift button**

- When in the Crates folder, rotate the **LIBRARY** encoder to highlight the desired crate and press the encoder to select.
- When in the Songs folder, rotate the **LIBRARY** encoder to highlight the desired song and press the encoder to load it.
- Hold **SHIFT** and press the **LIBRARY** encoder to go **BACK**, switching the focus between the Crates and Songs in Serato DJ. If you have any panels open in Serato DJ, this also changes the focus between this and the Library areas.



**Transform Joystick**

There are two primary joystick modes. Press the joystick to toggle Transform mode on and off.

**Transform Mode (LED On)**

- The joystick cuts all audio with up/down/left/right movements.
- Audio returns when joystick is back in the center position.

**Multifunction Serato DJ Control Mode (LED off)**

- Move a joystick toward the outside of the mixer for emergency **internal** mode (Jumps to 0% pitch).
- Move a joystick toward the center of the mixer for instant **doubles** to the opposite Virtual Deck.
- Move a joystick up to **sensor**. Releasing the joystick resumes playback without losing time.
- Move a joystick down to **slip** (the Transform LED flashes when slip is active). When Slip Mode is active you can manipulate the audio as normal (e.g., Scratch, Loop, Cues etc.). Once you release the joystick, playback is returned to where it would be if you had not manipulated the audio.

**Cues / Samples control**

The **CUES / SAMPLES** button toggles the eight buttons between Cues and Samples modes.

In **Cues mode**, the **CUES / SAMPLES** button is normally lit **red**. The Cue buttons light up the same color as any Cue markers saved with a song in Serato DJ. Any saved Cue is lit when the song is loaded, and pressing a lit button will trigger that Cue.

Any Cue not lit when a song is loaded is available to make, and pressing an unlit Cue button adds a Cue point at the current location. To delete a Cue, hold **SHIFT** and press a Cue trigger, and it will go dark. Any Cues created are saved in the song file, and deleted cues are erased from the file.

The four left Cues are assigned to the left Virtual Deck selected by the **A** or **B DECK 1 SOURCE**, and the four right Cues are assigned to the right Virtual Deck selected by the **A** or **B DECK 2 SOURCE**.

Cues 1-4 have buttons, though Serato DJ can have eight cues per song. When in Cues mode, press **SHIFT** and **CUES** to access Cues 5-8 (the Cues button lights **yellow**). Press **SHIFT** and **CUES** again to return to Cues 1-4 (the Cues button lights **red**). The button colors tell if the Cues are in 1-4 or 5-8.



In **Samples mode**, the **CUES / SAMPLES** button is **green**, the two Bank buttons are **blue** and the six Sample buttons are lit **purple** if they have an assigned sample.



The six center Sample buttons trigger loaded Samples from a selected Bank. If a bank has a Sample assigned to a slot its button is lit, and the button is dark if no Sample is loaded in that slot. Pressing a lit button plays the associated Sample. The button flashes while its Sample is playing. The Play behavior follows the behavior selected in Serato DJ. Hold **SHIFT** and press a playing Sample to force it to stop playing regardless of play mode.

The left **◀ BANK** button decrements the current Bank, and the right **BANK ▶** button increments the current Bank, starting with A, B, C, D and back to A.

The TTM57mkII has a dedicated **AUX** input for the sample player typically used for SP-6 playback. Sample playback defaults to **AUX**, but can be assigned to **DECK 1**, **DECK 2**, **AUX** or **MAIN MIX** in Serato DJ.

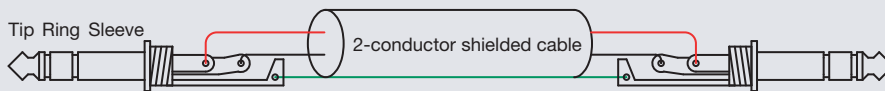
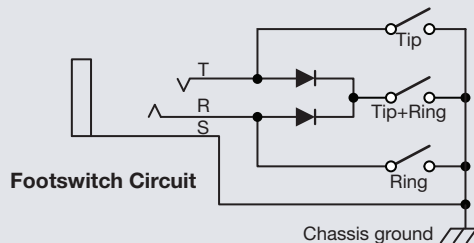
Sample triggers are broadcast to any active USB ports. If there is a conflict using two computers, turn the SP-6 off on one of the ports.

## Footswitch Jack

The TTM57mkII has a 1/4" TRS jack to connect an optional footswitch. Footswitch controls are not mapped to any function, but can be learned. MIDI commands can be generated from:

- tip connection to ground
- ring connection to ground
- tip-ring connection to ground

See "MIDI Mapping" on page 22.



## DJ Changeover

The TTM57mkII allows two computers to connect to the mixer simultaneously. This allows two DJs to play at the same time and for easy DJ set changeover, even if they run different software.

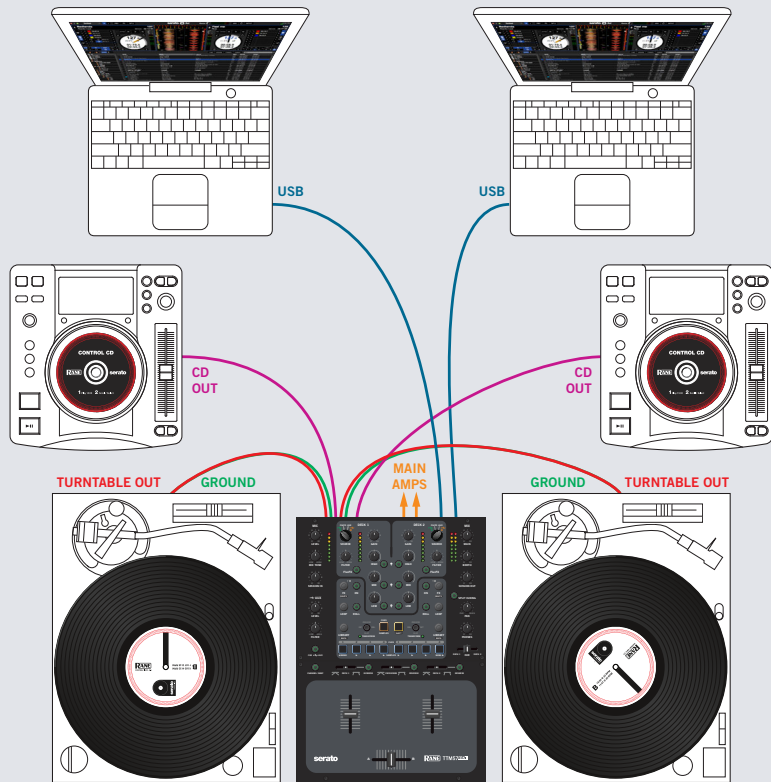
Connect both computers to the two USB ports on the TTM57mkII. For each channel on the mixer, set the **DECK SOURCE** to either **A** or **B** depending on which your computer is connected to.

**NOTE: If a channel is in use by a computer already, the second computer's Virtual Deck in Serato DJ will become black and display IN USE.**

When a Deck channel is assigned to a USB port with the **SOURCE** selector, both MIDI and audio are assigned to the **A** or **B** port. MIDI assignment for Deck 1 and Deck 2 mixer controls follow the **SOURCE** selection.

Swapping between two DJs is now easier than ever! With a computer already connected to the TTM57mkII and playing, do the following:

1. Connect the second computer to the unused USB port on the TTM57mkII.
2. Switch the **DECK SOURCE** on the non-playing mixer channel to the USB source of the second computer.
3. Play a track on this Deck and mix it in when ready — you'll now have audio from both computers in the mix.
4. Fade out the audio playing from the first computer to the audio playing from the second computer.
5. When only audio from the second computer is left in the mix, remove the first computer.
6. Assign the **DECK SOURCE** for the remaining free mixer channel to the second computer and keep rocking.



## Class Compliant USB Ports

The USB ports are 100% class compliant, allowing hook-up to any Mac OSX device without the need for an additional driver. A high-performance ASIO driver runs most Windows DAW and DJ software. MIDI end points are class compliant with both OSX and Windows devices.

### ASIO (Windows)

A low-latency ASIO driver is available to interface with most DJ and DAW audio software applications on Windows operating systems. Multi-client ASIO allows different audio software applications to simultaneously stream audio to and from the TTM57mkII. If the same playback channel is selected in more than one application, the driver mixes the audio from the applications before streaming it to the device. The driver Control Panel may be launched from the Windows Control Panel. Select Start > Control Panel > Rane TTM57mkII. The Serato DJ installer includes the ASIO driver and Rane Control Panel for Windows 7 and 8.

### Core Audio (Macintosh)

No driver installation is required. Connect the TTM57mkII to a Mac running OSX, and the mixer inputs and outputs become available in your audio program. Install the Rane control panel to provide additional mixer settings as described below. The most recent control panel installer may be downloaded from the TTM57mkII page at [dj.rane.com](http://dj.rane.com). The Serato DJ installer includes the Rane Control Panel for Mac OSX.

## Rane Control Panel

**NOTE:** Settings are saved in the mixer. The control panel for Windows or Macintosh is updated with the mixer's settings. Therefore, when you connect to a different TTM57mkII Mixer, it's saved settings override your previous Control Panel settings.



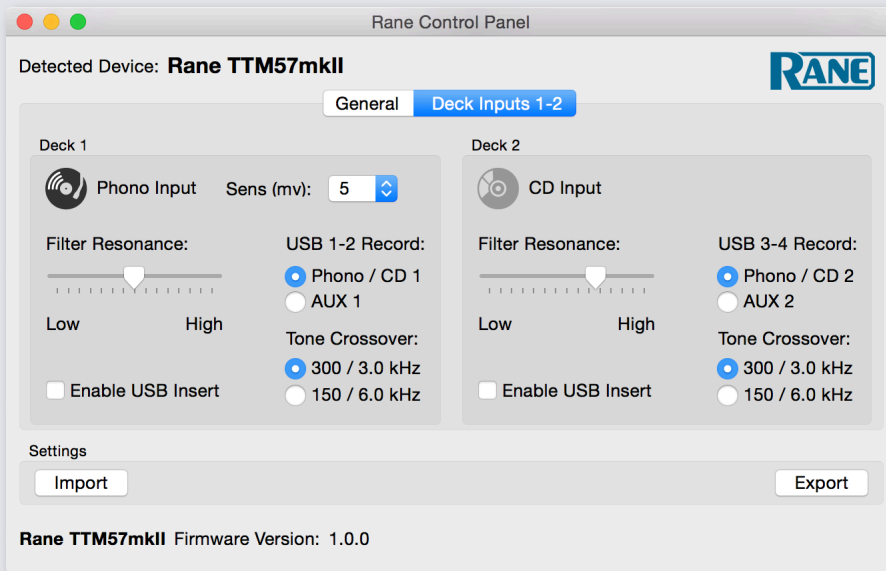
### Settings

The TTM57mkII allows you to save and export settings. You can load your preferences when using a different TTM57mkII than your own, or putting things back after another DJ has used your mixer.

Once you have set Rane Control Panel preferences, click **Export** to write these to a computer file. Click **Import** to load a .rms settings file. The Control Panel shows the current settings file loaded in the mixer. If any changes are made since the last import, [Modified] will appear after the filename along with a **Save** button, offering to save your changes as the new default.

### Firmware

The TTM57mkII Firmware Version currently installed in the mixer is shown in the active Rane Control Panel. The **Downloads** link on the TTM57mkII page at [dj.rane.com](http://dj.rane.com) is a place to check if there is a control panel / firmware update. Newer versions of Serato DJ may also contain firmware updates. After downloading and installing, if the TTM57mkII firmware installed on your computer is newer than the firmware in your mixer, an **Update Firmware** button is enabled. Pressing the button updates the TTM57mkII firmware to the new version.



### Deck Inputs 1-2 Control Panel

**Analog Input Source:** The analog input for each channel is set for CD (Line level) or Phono level (PH) using a switch on the rear of the mixer. The control panel shows the input mode selected on the mixer for each of the four inputs. The mode can only be changed on the mixer.

**Phono Sensitivity:** If Phono Input is selected on the mixer, the Phono Sensitivity adjustment appears in the panel. Click the down-arrow to display a list of 16 sensitivity settings between 2.5 mV and 10 mV in 0.5 mV steps. The default is 5 mV. Set the Phono Sensitivity to the same level of your cartridge (see your cartridge documentation for the correct value). Another method is to match the level of a CD on another input.

**Filter Resonance:** Each Deck channel has a sweep **FILTER** control that provides a High- and Low-Pass filter effect. Filter resonance controls the “peak” of the filter cutoff frequency. The Low setting provides the smoothest Filter without adding gain. The High setting adds accent to frequencies near the Filter cutoff point by adding about 12 dB of gain. Adding gain in a narrow region around the cutoff frequency adds a “zip” effect to audio as the Filter is swept. The default is 5 dB.

**USB Record Source:** sets PH/CD or AUX as the record source output for digital vinyl simulation (DVS). Each Deck records to separate USB slots. Deck 1 outputs on USB slots 1-2, Deck 2 outputs on slots 3-4.

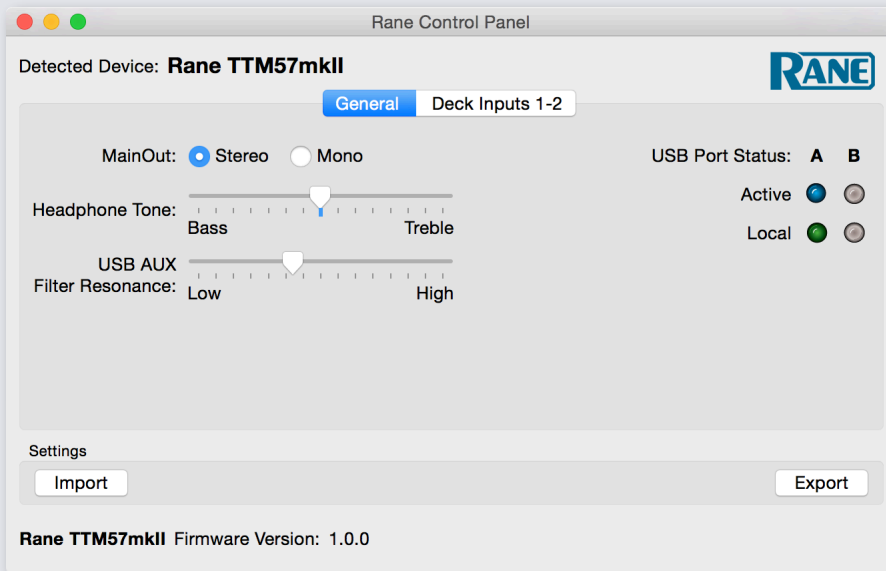
- Select Phono / CD for DVS in Serato DJ (default), or to record the Deck pre-fader.
- Select AUX for DVS in Serato DJ, or to record the Aux Input pre-fader.

**Tone Crossover** sets the crossover points of the 3-band Tone controls in both Deck channels to either:

- 300 Hz between Low and Mid, 3 kHz between Mid and High.
- 150 Hz between Low and Mid, 6 kHz between Mid and High (default).

**Enable USB Insert** connects the signal for the USB FX loop. This is off by default and disabled when USB is not connected. This is automatically enabled with Serato DJ. Check this box only when you need to send and return software effects through other DJ and DAW programs.

- Deck 1 FX Send is in USB slots 5-6      Deck 1 FX Return is in USB slots 7-8.
- Deck 2 FX Send is in USB slots 7-8      Deck 2 FX Return is in USB slots 9-10.



### General Control Panel

**Main Out** can be set to Stereo or Mono. The Booth and Session Outputs are always in stereo.

**Headphone Tone** slider adjusts the tone going to the headphones using spectral tilt filters.

- Increasing Treble reduces lows by the same amount.
- Increasing Bass reduces highs by the same amount.

**USB AUX Filter Resonance:** The USB Aux, usually used with the Serato DJ SP-6 Sampler, has its own sweep **FILTER** control that provides a High- and Low-Pass filter effect. Filter resonance controls the “peak” of the filter cutoff frequency. The Low setting provides the smoothest Filter without adding gain. The High setting adds accent to frequencies near the Filter cutoff point by adding about 12 dB of gain. Adding gain in a narrow region around the cutoff frequency adds a “zip” effect to audio as the Filter is swept. The default is 5 dB.

**USB Port Status** indicates the connection status of both USB ports. Active indicates a USB connection between the mixer and a computer. Local shows the USB Port connected to this control panel's computer.

The **Buffer Size** control allows the USB buffer to be increased or decreased. This only appears in the Rane Control Panel for ASIO in Windows. In Mac systems, the buffer control is in the Core Audio setup screen and does not appear here. The Rane driver is designed to run at latencies as low as 5 milliseconds round-trip. However, computer performance and available resources (number of applications running) may adversely affect the computer's ability to stream audio reliably. If pops and clicks are heard in USB audio, try increasing the buffer size to eliminate them. With ASIO, total round-trip latency is equal to Buffer Size plus device latency. With Core Audio, total round-trip latency is equal to Buffer Size plus software application buffer latency, plus device latency.

## MIDI Mapping

When using Serato DJ software, the mixer is plug-and-play with all required MIDI mapping done for you. For advanced users or with third-party DAWs, it is possible to custom MIDI-map most mixer controls on the TTM57mkII and control the lighting and color of buttons in the Serato DJ Cues and Samples strip.

There are three groups of MIDI controls:

- Those associated with Deck 1.
- Those associated with Deck 2.
- Mixer controls not associated with Deck 1 or Deck 2.

There are two USB ports on the mixer, **USB A** and **USB B**. Assign Deck controls to either port as follows:

- The **SOURCE** selector for **DECK 1** determines which USB port will be used for Deck 1 controls.
- The **SOURCE** selector for **DECK 2** determines which USB port will be used for Deck 2 controls.
- MIDI not associated with a Deck is sent and received from both USB ports.

### MIDI Implementation Chart

Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
<b>SDJ Deck 1 FX</b>							
Effect Depth Slot 1	Encoder	CC	9	0		3F decr, 41 incr	3F=Decrement 1, 41 = Increment 1, (applies to all encoders)
Effect Select Slot 1	Encoder	CC	9	11	0B	3F decr, 41 incr	Mixer Context: Press Encoder, Blink (On) Button, Rotate to Highlight, Press to Select, Selection Exits Context Mode
Effect On	Moment. switch	Note	9	0	00		
Beats Slot 1	Encoder	CC	9	3	03	3F decr, 41 incr	Shift + Deck 1 FX Encoder
Select Effect Slot 1	Encoder switch	Note	9	11	0B		
Effect Select Mode On	Encoder switch	Note	15	5	05		See Mixer Context: Effect Select Slot 1
<b>SDJ Deck 2 FX</b>							
Effect Depth Slot 2	Encoder	CC	10	0	00	3F decr, 41 incr	
Effect Select Slot 2	Encoder	CC	10	11	0B	3F decr, 41 incr	Mixer Context: Press Encoder, Blink (On) Button, Rotate to Highlight, Press to Select, Selection Exits Context Mode
Effect On	Moment. switch	Note	10	0	00		
Beats Slot 2	Encoder	CC	10	3	03	3F decr, 41 incr	Shift + Deck 2 FX Encoder
Select Effect Slot 2	Encoder switch	Note	10	11	0B		
Effect Select Mode On	Encoder switch	Note	15	6	06		See Mixer Context: Effect Select Slot 2
<b>SDJ Deck 1 Loops</b>							
Loop Length Adjust	Encoder	CC	5	52	34	3F decr, 41 incr	Roll and Auto Loop
Loop On	Encoder switch	Note	5	50	32		Auto Loop
Loop Roll	Roll switch	Note	5	62	3E		



Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
<b>SDJ Deck 2 Loops</b>							
Loop Length Adjust	Encoder	CC	6	52	34	3F decr, 41 incr	
Loop On	Encoder switch	Note	6	50	32		
Loop Roll	Roll switch	Note	6	62	3E		
<b>Modifiers</b>							
Shift	Moment. switch	Note	16	50	32		Mixer Modifier
Cues Mode (Cues/Samples switch)	Moment. switch	Note	5	0	00		Mixer Modifier
Cues 5-8 Mode (Shift + Cues/Samples switch)	Moment. switch	Note	16	54	36		Switch between Cues 1-4 and Cues 5-8 when in Cues mode.
Samples Mode (Cues/Samples switch)	Moment. switch	Note	5	11	0B		Mixer Modifier
<b>SDJ Samples</b>							
Deck 1 Pad 1 Bank Select Left	Moment. switch	Note	5	40	28		Samples Mode, Decrement Bank
Deck 1 Pad 2 Play Sample 1	Moment. switch	Note	5	20	14		Samples Mode
Deck 1 Pad 3 Play Sample 2	Moment. switch	Note	5	21	15		Samples Mode
Deck 1 Pad 4 Play Sample 3	Moment. switch	Note	5	22	16		Samples Mode
Deck 2 Pad 1 Play Sample 4	Moment. switch	Note	5	23	17		Samples Mode
Deck 2 Pad 2 Play Sample 5	Moment. switch	Note	5	24	18		Samples Mode
Deck 2 Pad 3 Play Sample 6	Moment. switch	Note	5	25	19		Samples Mode
Deck 2 Pad 4 Bank Select Right	Moment. switch	Note	5	41	29		Samples Mode, Increment Bank
Deck 1 Pad 2 + Shift, Stop Sample 1	Moment. switch	Note	5	28	1C		Shift Modifier, Force Stop
Deck 1 Pad 3 + Shift, Stop Sample 2	Moment. switch	Note	5	29	1D		Shift Modifier, Force Stop
Deck 1 Pad 4 + Shift, Stop Sample 3	Moment. switch	Note	5	30	1E		Shift Modifier, Force Stop
Deck 2 Pad 1 + Shift, Stop Sample 4	Moment. switch	Note	5	31	1F		Shift Modifier, Force Stop
Deck 2 Pad 2 + Shift, Stop Sample 5	Moment. switch	Note	5	32	20		Shift Modifier, Force Stop
Deck 2 Pad 3 + Shift, Stop Sample 6	Moment. switch	Note	5	33	21		Shift Modifier, Force Stop

Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
<b>SDJ Deck 1 Cues</b>							
Pad 1 Cue 1	Moment. switch	Note	5	20	14		Cues Mode
Pad 2 Cue 2	Moment. switch	Note	5	21	15		Cues Mode
Pad 3 Cue 3	Moment. switch	Note	5	22	16		Cues Mode
Pad 4 Cue 4	Moment. switch	Note	5	23	17		Cues Mode
Pad 1+Shift, Delete Cue 1	Moment. switch	Note	5	28	1C		Cues Mode, Shift Modifier
Pad 2+Shift, Delete Cue 2	Moment. switch	Note	5	29	1D		Cues Mode, Shift Modifier
Pad 3+Shift, Delete Cue 3	Moment. switch	Note	5	30	1E		Cues Mode, Shift Modifier
Pad 4+Shift, Delete Cue 4	Moment. switch	Note	5	31	1F		Cues Mode, Shift Modifier
Pad 1 Cue 5	Moment. switch	Note	5	24	18		Cues Mode
Pad 2 Cue 6	Moment. switch	Note	5	25	19		Cues Mode
Pad 3 Cue 7	Moment. switch	Note	5	26	1A		Cues Mode
Pad 4 Cue 8	Moment. switch	Note	5	27	1B		Cues Mode
Pad 1+Shift, Delete Cue 5	Moment. switch	Note	5	32	20		Cues Mode, Shift Modifier
Pad 2+Shift, Delete Cue 6	Moment. switch	Note	5	33	21		Cues Mode, Shift Modifier
Pad 3+Shift, Delete Cue 7	Moment. switch	Note	5	34	22		Cues Mode, Shift Modifier
Pad 4+Shift, Delete Cue 8	Moment. switch	Note	5	35	23		Cues Mode, Shift Modifier
<b>SDJ Deck 2 Cues</b>							
Pad 1 Cue 1	Moment. switch	Note	6	20	14		Cues Mode
Pad 2 Cue 2	Moment. switch	Note	6	21	15		Cues Mode
Pad 3 Cue 3	Moment. switch	Note	6	22	16		Cues Mode
Pad 4 Cue 4	Moment. switch	Note	6	23	17		Cues Mode
Pad 1+Shift, Delete Cue 1	Moment. switch	Note	6	28	1C		Cues Mode, Shift Modifier
Pad 2+Shift, Delete Cue 2	Moment. switch	Note	6	29	1D		Cues Mode, Shift Modifier
Pad 3+Shift, Delete Cue 3	Moment. switch	Note	6	30	1E		Cues Mode, Shift Modifier
Pad 2+Shift, Delete Cue 4	Moment. switch	Note	6	31	1F		Cues Mode, Shift Modifier

Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
<b>SDJ Library Encoder Deck 1</b>							
Library Scroll	Encoder	CC	16	0	00	3F decr, 41 incr	
Library Scroll Fast	Encoder	CC	16	1	01	3F decr, 41 incr	Shift Modifier
Library Backward + Expand Crates	Encoder switch	Note	16	7	07		Shift Modifier
Select Crate and Move Forward	Encoder switch	Note	16	2	02		Software Context (If in Crates Then Select Crate and Move Forward)
Load Song to Deck 1	Encoder switch	Note	16	2	02		Software Context (If in Songs Then Load Song)
<b>SDJ Library Encoder Deck 2</b>							
Library Scroll	Encoder	CC	16	0	00	3F decr, 41 incr	
Library Scroll Fast	Encoder	CC	16	1	01	3F decr, 41 incr	Shift Modifier
Library Backward + Expand Crates	Encoder switch	Note	16	7	07		Shift Modifier
Select Crate and Move Forward	Encoder switch	Note	16	3	03		Software Context (If In Crates Then Select Crate and Move Forward)
Load Song to Deck 2	Encoder switch	Note	16	3	03		Software Context (If in Songs Then Load Song)
<b>Deck 1 Joystick</b>							
Joystick Mode	Press Joy switch	Note	16	51	33		Press Encoder to Toggle Between SDJ and Transform Modes, LED On in Transform Mode
Internal Mode	Joy Left	Note	1	41	29		Send in SDJ Mode Only
Shift + Internal Mode, Safety Mode	Joy Right	Note	1	42	2A		Send in SDJ Mode Only
Censor	Joy Up	Note	1	16	10		Send in SDJ Mode Only
Slip	Joy Down	Note	1	15	0F		Send in SDJ Mode Only, Toggle On/Off, Flash Transform LED When Active
Instant Doubles	Joy Right	Note	1	33	21		Right
<b>Deck 2 Joystick</b>							
Joystick Mode	Press Joy switch	Note	16	52	34		Press Encoder to Toggle Between SDJ and Transform Modes, LED On in Transform Mode
Internal Mode	Joy Right	Note	2	41	29		Send in SDJ Mode Only
Shift + Internal Mode, Safety Mode	Joy Right	Note	2	42	2A		Send in SDJ Mode Only
Censor	Joy Up	Note	2	16	10		Send in SDJ Mode Only
Slip	Joy Down	Note	2	15	0F		Send in SDJ Mode Only, Toggle On/Off, Flash Transform LED When Active
Instant Doubles	Joy Left	Note	2	33	21		

Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
<b>Mixer Deck 1</b>							
Input Mode (PH/CD)	Slide switch	CC	1	40	28	0-7F	Phono (0-3F), CD (40-7F) Read-only
Input Mode (PH/CD)	Control Panel	CC	15	49	31	0-7F	Phono (0-3F), CD (40-7F) Read-only
RIAA Sensitivity	Control Panel	CC	15	1	01	0-F	2.5 (00), 3 (01), 3.5 (02), 4 (03), 4.5 (04), 5 (05), 5.5 (06), 6 (07), 6.5 (08), 7 (09), 7.5 (0A), 8 (0B), 8.5 (0C), 9 (0D), 9.5 (0E), 10 (0F)
Input Selector	1 of 4 switch	CC	1	34	22	0-7F	USB A (0-1F) , PH/CD (20-3F), AUX (40-5F), USB B (60-7F) Read-only
USB A/USB B Selected	Logical	CC	1	61	3D	0-7F	USB A (0-3F), USB B (20-7F)
Gain	Pot	CC	1	22	16	0-7F	
High EQ	Pot	CC	1	23	17	0-7F	
Kill High EQ	Moment. switch	Note	1	35	23		MIDI Receive Velocity sets Backlight
Mid EQ	Pot	CC	1	24	18		
Kill Mid EQ	Moment. switch	Note	1	36	24		MIDI Receive Velocity sets Backlight
Low EQ	Pot	CC	1	25	19		
Kill Low EQ	Moment. switch	Note	1	37	25		MIDI Receive Velocity sets Backlight
FlexFX Enable	Moment. switch	Note	1		00		MIDI Receive Velocity sets Backlight
Channel Fader	Slider	CC	1	28	1C		
Channel Fader Contour	Slider	CC	1	29	1D		
Channel Fader Reverse	Moment. switch	Note	1	38	26		MIDI Receive Velocity sets Backlight
USB Record Source	Control Panel	CC	15	62	3E	0-7F	Record PH/CD (0-3F), Record AUX (40-7F)
EQ Crossover	Control Panel	CC	15	11	0B	0-7F	300/3.0k (0-3F), 150/6.0k (40-7F)
HP/LP Filter	Pot	CC	1	26	1A	0-7F	
Filter Resonance	Control Panel	CC	15	13	0D	0-7F	
Enable USB FX Insert	Control Panel	CC	15	15	0F	0-7F	Bypass (0-3F), Active (40-7F)
<b>Mixer Deck 2</b>							
Input Mode (PH/CD)	Slide switch	CC	2	40	28	0-7F	Phono (0-3F), CD (40-7F)
Input Mode (PH/CD)	Control Panel	CC	15	50	32	0-7F	Phono (0-3F), CD (40-7F)
RIAA Sensitivity	Control Panel	CC	15	16	10	0-F	2.5 (00), 3 (01), 3.5 (02), 4 (03), 4.5 (04), 5 (05), 5.5 (06), 6 (07), 6.5 (08), 7 (09), 7.5 (0A), 8 (0B), 8.5 (0C), 9 (0D), 9.5 (0E), 10 (0F)
Input Selector	1 of 4 switch	CC	2	34	22	0-7F	USB A (0-1F) , PH/CD (20-3F), AUX (40-5F), USB B (60-7F)
USB A / USB B Selected	Logical	CC	2	61	3D	0-7F	USB A (0-3F), USB B (20-7F)
Gain	Pot	CC	2	22	16	0-7F	

Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
High EQ	Pot	CC	2	23	17	0-7F	
Kill High EQ	Moment. switch	Note	2	35	23		MIDI Receive Velocity sets Backlight
Mid EQ	Pot	CC	2	24	18	0-7F	
Kill Mid EQ	Moment. switch	Note	2	36	24		MIDI Receive Velocity sets Backlight
Low EQ	Pot	CC	2	25	19	0-7F	
Kill Low EQ	Moment. switch	Note	2	37	25		MIDI Receive Velocity sets Backlight
FlexFX Enable	Moment. switch	Note	2		00		MIDI Receive Velocity sets Backlight
Channel Fader	Slider	CC	2	28	1C	0-7F	
Channel Fader Contour	Slider	CC	2	29	1D	0-7F	
Channel Fader Reverse	Moment. switch	Note	2	38	26		MIDI Receive Velocity sets Backlight
USB Record Source	Control Panel	CC	15	63	3F	0-7F	Record PH/CD (0-3F), Record AUX (40-7F)
EQ Crossover	Control Panel	CC	15	26	1A	0-7F	300/3.0k (0-3F), 150/6.0k (40-7F)
HP/LP Filter	Pot	CC	2	26	1A	0-7F	
Filter Resonance	Control Panel	CC	15	28	1C	0-7F	
Enable USB FX Insert	Control Panel	CC	15	29	1D	0-7F	Bypass (0-3F), Active (40-7F)
<b>Mixer Preferences</b>							
USB AUX Filter Resonance	Control Panel	CC	15	30	1E	0-7F	
Headphone Tone	Control Panel	CC	15	31	1F	0-7F	
USB Port Active	Control Panel	CC	15	32	20	BINARY	USB A Active (0x01), USB B Active (0x04) [0x05 indicates both are active]
Stereo	Control Panel	CC	15	34	22	0-7F	Stereo (0-3F), Mono (40-7F)
<b>Mixer General</b>							
Main Level	Pot	CC	15	35	23	0-7F	
Booth Level	Pot	CC	15	36	24	0-7F	
Session IN Level	Pot	CC	15	37	25	0-7F	
Session Out Level	Pot	CC	15	38	26	0-7F	
Cue/Main Pan	Pot	CC	15	39	27	0-7F	
Deck 1/Deck 2 Cue Pan	Slider	CC	15	40	28	0-7F	
Split Cue Note (Off)	Moment. switch	Note	15	14	0E		
Crossfader	Slider	CC	16	8	08		
Crossfader Contour	Slider	CC	16	9	09		
Crossfader Reverse	Moment. switch	Note	16	29	1D		
Channel switch	Moment. switch	Note	16	30	1E		
Mic Level	Pot	CC	15	43	2B	0-7F	
Mic Tone	Pot	CC	15	44	2C	0-7F	

Control Description	Control Type	Status	MIDI Channel	Control # Dec.	Control # Hex	Data	Comment
USB Aux Level	Pot	CC	15	45	2D	0-7F	
USB Aux HP/LP Filter	Pot	CC	15	46	2E	0-7F	
Headphone Level	Pot	CC	15	47	2F	0-7F	
USB Aux Cue Note (Off)	Moment. switch	Note	15	17	11		
Foot switch Bit-1	Moment. switch	Note	15	18	12		Bit-1
Foot switch Bit-2	Moment. switch	Note	15	19	13		Bit-2
Foot switch Bits-1&2	Logical	Note	15	20	14		Bit-1 and Bit-2

**RGB & Red-Green LEDs**

The note number of an RGB LED matches the note number of the trigger it is associated with. A 7-bit velocity value uses 5-bits for Color, 1-bit for Intensity and 1-bit for Blink. The five color bits allow selection of up to 32 color values from a predefined pallet of colors. The required RGB PWM values for each color in the pallet are stored in a table and sent to the PCA9634 as required. One intensity bit allow two levels of intensity. The intensity is controlled by multiplying the values in the color palette by a constant as outlined below. The blink bit determines if a LED is on steady or blinking. Blinking of individual LEDs must be managed by the host controller as the PCA9634 does not support individual LED blinking. Refer to the PCA9634 manual for operational details. Color and intensity are controlled by Serato DJ software. See the MIDI Note numbers in the preceding MIDI Table in the Cues and Samples sections.

RGB LED Name	RGB LED Ref Des	Driver Location	Function	Velocity
Deck 1 Trigger 1	D17	U26 LED 0, 1, 2	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 1 Trigger 2	D19	U26 LED 5, 6, 7	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 1 Trigger 3	D21	U27 LED 0, 1, 2	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 1 Trigger 4	D23	U27 LED 5, 6, 7	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 2 Trigger 1	D25	U28 LED 0, 1, 2	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 2 Trigger 2	D27	U28 LED 5, 6, 7	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 2 Trigger 3	D29	U29 LED 0, 1, 2	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Deck 2 Trigger 4	D31	U29 LED 5, 6, 7	Software Controlled	5-bit Color 1-bit Intensity 1-bit Blink
Cues / Samples	D33	U27 LED 3,4	Software Controlled	3-bit Color 1-bit Intensity 1-bit Blink
Shift	D34	U28 LED 3,4	Firmware Controlled	3-bit Color 1-bit Intensity 1-bit Blink

## RGB LED Color Palette

RGB Hex	Index	Color
000000	0	
CC0000	1	
CC4400	2	
CC8800	3	
CCCC00	4	
88CC00	5	
44CC00	6	
00CC00	7	
00CC44	8	
00CC88	9	
00CCCC	10	
0088CC	11	
0044CC	12	
0000CC	13	
4400CC	14	
8800CC	15	
CC00CC	16	
CC0088	17	
CC0044	18	
FFFFFF	19	

## Backlight Specification

A 7-bit velocity value is used to determine color and intensity.

For RGB LEDs the first 5-bits define the color palette index: Palette Color [D4...D0].

For Red-Green LEDs, the first 3-bits define the color palette (color values greater than 7 are not defined and should not be used for Red-Green LEDs).

- Values for full intensity are listed in the color palette.

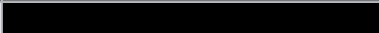


One bit determines intensity: Intensity [D5]

- 0 = Dim
- 1 = Bright

One bit determines blink: Blink [D6]

- 0 = No Blink
- 1 = Blink

## Red-Green LED Color Palette (Shift and Cues/Samples)

RGB Hex	Index	Color
0000	0	
CC00	1	
CC44	2	
CC88	3	
CCCC	4	
88CC	5	
44CC	6	
00CC	7	



## Magnetic Fader Maintenance

The faders and crossfader in the TTM57mkII are designed with materials highly resistant to corrosion and most chemicals. While they will handle millions of operations, they may become dirty over time. Bad things may be spilled into a fader, but in many instances the fader may not be damaged and the sound quality thus unaffected. Cleaning is only required to maintain the feel of the fader.

In order to maintain the feel of your faders, they may occasionally require cleaning and lubrication. The bearings in the fader work best with DuPont Teflon Multi-use Lubricant (part # D00040101). Make sure to follow the instructions and warnings on the bottle.

This lubricant goes on wet to deeply penetrate moving parts, but sets up with a clean, dry, long-lasting film which will not attract and absorb dirt and grime. Wet or oily lubricants may feel good at first, but will attract dirt and evaporate or become dry over time. See the fader cleaning instructions below.

### Fader Assembly Removal

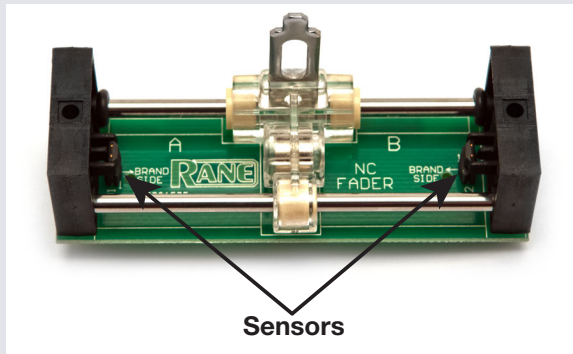
1. Remove all three fader knobs.
2. Remove all four screws holding the fader panel face plate.
3. Lift up the fader panel face plate and set it aside where it can't get damaged.
4. Remove the two screws at each end of a fader, holding the bottom of the fader in place with your other hand.
5. Take out the fader assembly completely.
6. Note the left connector goes to the left fader, the center connector goes to the crossfader, and the right connector goes to the right fader.
7. Unplug the connectors of the white wires at the fader assembly without pulling the wires.

### Reverse this procedure to re-assemble.

- Plug in the connector before re-installing the fader. Notice the connector only will fit one way.
- Test all the faders before installing the fader panel face plate and fader knobs.

### Fader Cleaning

1. For a light cleaning, move the carrier to one side and wipe rails with a lint-free cloth. Move the carrier to the other side and repeat.
2. If a heavier cleaning is required to remove oily lubricants or grease, first take the carrier off of the rails by removing one of the endblocks. Clean the rails using a lint-free cloth and alcohol. Use a cue-tip and alcohol to clean the carrier bearings.
3. With the fader clean, dry and assembled, add a couple of drops of Teflon Multi-use Lubricant to each rail of the fader.
4. Move the carrier back and forth to distribute lubricant.
5. Do not disturb the position of the small sensors at each end of the fader. If you accidentally do, make sure the parts are standing straight before re-installing.



### Fader Calibration

After cleaning or replacement, the sensors may get moved, affecting the contour. After any fader service, perform this procedure to re-calibrate the faders and crossfader.

1. Power off the TTM57mkII.
2. Move all faders to the center-most position.
3. Push down both of the Low Kill buttons at the same time.
4. While holding these buttons down, power on the TTM57mkII.
5. Immediately after powering up, the lights will flash one time, indicating a successful calibration. If the lights flash three times, the sensors may have moved too far or all faders were not properly centered, and the faders cannot correctly calibrate.

### Fader Replacement

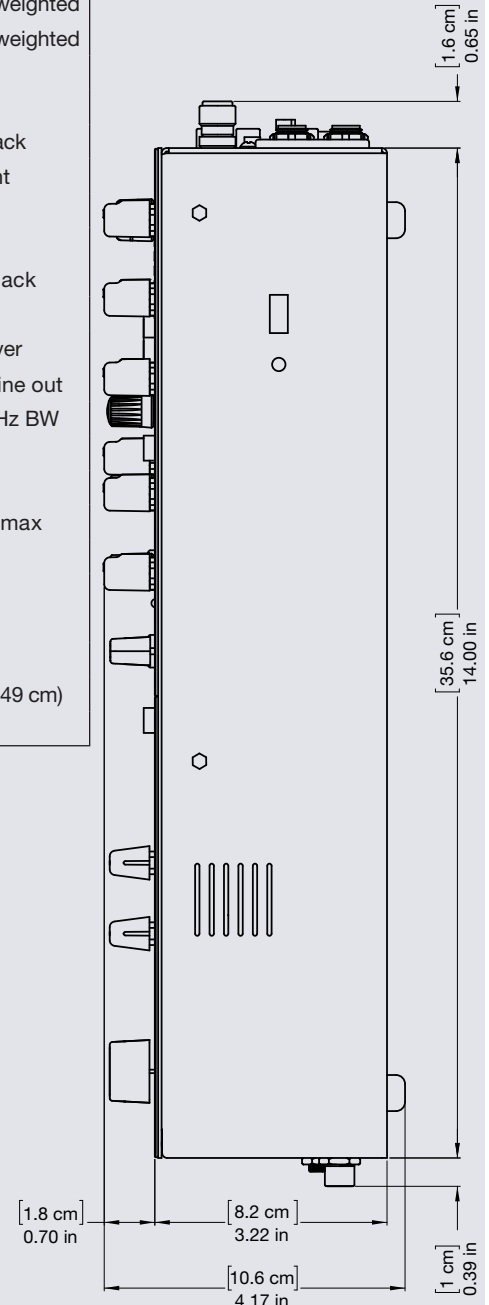
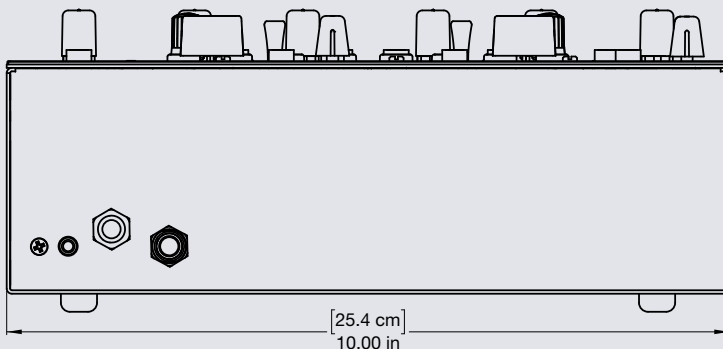
You probably won't need to replace a magnetic fader, as cleaning usually solves the problem. If you really need a spare, they are available for US customers at the Rane Factory Store at [rane.com](http://rane.com). They are also available through Rane's international distributors, found through [dj.rane.com](http://dj.rane.com). Please order the **Magnetic Fader V2**. The fader from the original TTM57SL will not work in the TTM57mkII.

**Problems?** Contact Rane Corporation customer service at 425-355-6000 or email us at [info@rane.com](mailto:info@rane.com). Online help is available at [dj.rane.com](http://dj.rane.com).

## Technical Specifications

All specifications typical unless otherwise stated

Analog Inputs	4 Stereo unbalanced RCA jacks
...Phono or Line level input	Rear panel switches for each input
...Phono Response	RIAA $\pm 1$ dB, Gain: 31 dB at 1 kHz
.....Rumble filter	Butterworth 3rd-order Infrasonic
...Max Phono Input	126 mV
...Max Line Input	4 Vrms
ADCs	24-bit, 48 kHz; dynamic range 102 dB A-weighted
DACs	24-bit, 48 kHz; dynamic range 108 dB A-weighted
Dynamic Range, Line in to Line out	101 dB A-weighted
Digital Signal Processing	32-bit floating point
USB 2.0 Audio	Five Stereo Record, Five Stereo Playback
...	44.1, 48, or 96 kHz, 32-bit floating point
FlexFX Return	Stereo unbalanced RCA jacks
FlexFX Send	Stereo unbalanced RCA jacks
Mic Input	Balanced 1/4" TRS & XLR combination jack
...Tone Controls	2-band, High and Low
...Mic-Line level switch	Choose Line to connect wireless receiver
Line Outputs: Frequency Response	20 Hz to 20 kHz $\pm 0.25$ dB, Line in to Line out
...THD+N	<0.01% re 0 dBFS, 20 to 20 kHz, 20 kHz BW
...Unbalanced jacks (RCA & FlexFX)	Maximum 4 Vrms
...Balanced jacks (Main & 1/4")	Maximum 8 Vrms
Universal Power Supply	100 to 240 VAC, 50 Hz to 60 Hz, 15 W max
USB Power	Mixer is self-powered
Unit: Conformity	CE, FCC, cULus
...Size (chassis)	14" x 10" x 3.2" (35.6 x 25.4 x 8.2 cm)
...Weight	8 lb (3.7 kg)
Shipping Size	7.75" H x 15" W x 19.25" D (19.7 x 38.1 x 49 cm)
...Weight	12 lb (5.5 kg)



## Limited Warranties

### Factory Authorized Service

Your unit may someday need to be serviced by the Rane Factory if you live in the USA. International customers should contact your dealer or distributor for service. You must call the Rane factory before shipping. Please do not return your unit to Rane without prior authorization.

To obtain service or a Return Authorization in the USA, please phone Rane Corporation at 425-355-6000, or fax Rane at 425-347-7757.

### Limited U.S.A. Warranty

RANE CORPORATION WARRANTS ALL RANE PRODUCTS (except those items classified and listed in "Wear Parts" on page 4) PURCHASED IN THE U.S. AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS. WEAR PARTS ARE LIMITED TO A PERIOD OF NINETY (90) DAYS FROM THE INITIAL DATE OF RETAIL PURCHASE FROM AN AUTHORIZED RANE DEALER — WEAR PARTS REQUIRE PROOF OF PURCHASE DATE. This limited warranty extends to all purchasers or owners of the product during the warranty period beginning with the original retail purchase. Rane Corporation does not, however, warrant its products against any and all defects: 1) arising out of material or workmanship not provided or furnished by Rane, or 2) resulting from abnormal use of the product or use in violation of instructions, or 3) in products repaired or serviced by other than the Rane Factory, or 4) in products with removed or defaced serial numbers, or 5) in components or parts or products expressly warranted by another manufacturer. Rane agrees to supply all parts and labor to repair or replace defects covered by this limited warranty with parts or products of original or improved design, at its option in each respect, if the defective product is shipped prior to the end of the warranty period to the Rane Factory in the original packaging or a replacement supplied by Rane, with all transportation costs and full insurance paid each way by the purchaser or owner.

### Limited Warranty Outside the U.S.A.

RANE PRODUCTS ARE WARRANTED ONLY IN THE COUNTRY WHERE PURCHASED, THROUGH THE AUTHORIZED RANE DISTRIBUTOR IN THAT COUNTRY, AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP, THE SPECIFIC PERIOD OF THIS LIMITED WARRANTY SHALL BE THAT WHICH IS DESCRIBED TO THE ORIGINAL RETAIL PURCHASER BY THE AUTHORIZED RANE DEALER OR DISTRIBUTOR AT THE TIME OF PURCHASE. Rane Corporation does not, however, warrant its products against any and all defects: 1) arising out of materials or workmanship not provided or furnished by Rane, or 2) resulting from abnormal use of the product or use in violation of instructions, or 3) in products repaired or serviced by other than authorized Rane repair facilities, or 4) in products with removed or defaced serial numbers, or 5) in components or parts or products expressly warranted by another manufacturer. Rane agrees, through the applicable authorized distributor, to repair or replace defects covered by this limited warranty with parts or products of original or improved design, at its option in each respect, if the defective product is shipped prior to the end of the warranty period to the designated authorized Rane warranty repair facility in the country where purchased, or to the Rane factory in the U.S., in the original packaging or a replacement supplied by Rane, with all transportation costs and full insurance paid each way by the purchaser or owner.

ALL REMEDIES AND THE MEASURE OF DAMAGES ARE LIMITED TO THE ABOVE SERVICES, IT IS POSSIBLE THAT ECONOMIC LOSS OR INJURY TO PERSON OR PROPERTY MAY RESULT FROM THE FAILURE OF THE PRODUCT; HOWEVER, EVEN IF RANE HAS BEEN ADVISED OF THIS POSSIBILITY, THIS LIMITED WARRANTY DOES NOT COVER ANY SUCH CONSEQUENTIAL OR INCIDENTAL DAMAGES. SOME STATES OR COUNTRIES DO NOT ALLOW THE LIMITATIONS OR EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO A PERIOD OF TWO (2) YEARS FROM EITHER THE DATE OF ORIGINAL RETAIL PURCHASE OR, IN THE EVENT NO PROOF OF PURCHASE DATE IS AVAILABLE, THE DATE OF MANUFACTURE, SOME STATES OR COUNTRIES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE, COUNTRY TO COUNTRY.

## **Warranty Procedure - Valid in U.S.A. only**

**NOTICE! You must complete and return the warranty card or register your product online to extend the Warranty from 2 years to 3 years!**

TO VALIDATE YOUR EXTENDED WARRANTY: Use the postcard that came in the box with your unit, or go to the **support** page at [dj.rane.com](http://dj.rane.com) and click on **product registration**. Fill out the warranty completely, being sure to include the model and serial number of the unit since this is how warranties are tracked. If your Rane product was purchased in the U.S.A., mail the completed card or register online with to Rane Corporation within 10 days from the date of purchase. **If you purchased the product outside the U.S.A. you must file your warranty registration with the Rane Distributor in that country.** It is advised that you keep your bill of sale as proof of purchase, should any difficulties arise concerning the registration of the warranty card. **NOTICE: IT IS NOT NECESSARY TO REGISTER IN ORDER TO RECEIVE RANE CORPORATION'S STANDARD TWO YEAR LIMITED WARRANTY.**

WARRANTY REGISTRATION is made and tracked by MODEL and SERIAL NUMBERS ONLY, not by the purchaser's or owner's name. Therefore any warranty correspondence or inquires **MUST** include the model and serial number of the product in question. Be sure to fill in the model and serial number in the space provided below and keep this in a safe place for future reference.

WARRANTY SERVICE **MUST BE PERFORMED ONLY BY AN AUTHORIZED RANE SERVICE FACILITY LOCATED IN THE COUNTRY WHERE THE UNIT WAS PURCHASED, OR (if product was purchased in the U.S.) AT THE RANE FACTORY IN THE U.S..** If the product is being sent to Rane for repair, please call the factory for a Return Authorization number. We recommend advance notice be given to the repair facility to avoid possible needless shipment in case the problem can be solved over the phone. **UNAUTHORIZED SERVICE PERFORMED ON ANY RANE PRODUCT WILL VOID ITS EXISTING FACTORY WARRANTY.**

FACTORY SERVICE: If you wish your Rane product to be serviced at the factory, it must be shipped **FULLY INSURED, IN THE ORIGINAL PACKING OR EQUIVALENT.** This warranty will **NOT** cover repairs on products damaged through improper packaging. If possible, avoid sending products through the mail. Be sure to include in the package:

1. Complete return street shipping address (P.O. Box numbers are **NOT** acceptable).
2. A detailed description of any problems experienced, including the make and model numbers of any other system equipment.
3. Remote power supply, if applicable.

Repaired products purchased in the U.S. will be returned prepaid freight via the same method they were sent to Rane. Products purchased in the U.S., but sent to the factory from outside the U.S. **MUST** include return freight funds, and the sender is fully responsible for all customs procedures, duties, tariffs and deposits.

**In order to qualify for Rane's one year extended warranty (for a total of 3 years parts and labor), the warranty must be completely filled out and sent to us immediately. Valid in USA only.**

**We recommend you write your serial number here in your owners manual and on your sales receipt for your records.**

SERIAL NUMBER: \_\_\_\_\_ PURCHASE DATE: \_\_\_\_\_

**[dj.rane.com](http://dj.rane.com) is your center for support, accessories, community, and learning how to get the most from your TTM57mkII Mixer.**

## Declaration of Conformity

**Application of Council Directives:**

2001/95/EC    2002/96/EC  
 2004/108/EC    2006/95/EC  
 2011/65/EU

**Standard(s) to which conformity is declared:**

EN60065:2002/A1:2006/A11:2008/A2:2010/A12:2011  
 EN55103-1:2009/AM1:2012  
 EN55103-2:2009  
 EN50581:2012  
 ENVIRONMENT E2  
 SERIAL NUMBERS 900000 - 999999  
 CE MARK FIRST AFFIXED IN: 2015

**Manufacturer:**

**Rane Corporation**  
**10802 47th Avenue West**  
**Mukilteo WA 98275-5000 USA**

This equipment has been tested and found to be in compliance with all applicable standards and regulations applying to the EU's Low Voltage (LV) directive 2006/95/EC and Electromagnetic Compatibility (EMC) directive, 2004/108/EC. In order for the customer to maintain compliance with this regulation, high quality shielded cable must be used for interconnection to other equipment. Modification of the equipment, other than that expressly outlined by the manufacturer, is not allowed under this directive. The user of this equipment shall accept full responsibility for compliance with the LV directive and the EMC directive in the event that the equipment is modified without written consent of the manufacturer. This declaration of conformity is issued under the sole responsibility of Rane Corporation.

**Type of Equipment:** Professional Audio Signal Processing

**Brand:** Rane

**Model:** TTM57mkII (mark 2)

**Immunity Results:**

THD+N: 4 dBu, 400 Hz, BW 20 Hz - 20 kHz

Test Description	Measurement	Conditions
<b>RF Electromagnetic Fields Immunity</b>		
80 MHz -1000 MHz, 1 kHz AM, 80% depth, 3V/m	<-68 dB	
1400 MHz - 2700 MHz, 1 kHz AM, 80% depth, 3V/m	<-68 dB	
<b>Conducted RF Disturbances Immunity</b>		
150 kHz - 80 MHz, 1 kHz AM, 80% depth, 3V rms	<-68 dB	
<b>Magnetic Fields Immunity</b>		
50 Hz - 10 kHz, 3.0 - 0.3 A/m	<-64 dB	
<b>Common Mode Immunity (Signal Ports)</b>		Bandpass re: 4 dBu, 1/3-octave
50 Hz - 10 kHz, -20 dBu	<-64 dB	

I, the undersigned, hereby declare that the equipment specified above conforms to the Directive(s) and Standard(s) shown above.



(Signature)

**Greg Frederick**  
 \_\_\_\_\_  
 (Full Name)

**Compliance Engineer**  
 \_\_\_\_\_  
 (Position)

**February 3, 2015**  
 \_\_\_\_\_  
 (Date)

**Mukilteo WA USA**  
 \_\_\_\_\_  
 (Place)



**TTM57mkII**

