PCDJ Reflex Manual Microsoft Windows Version. First Edition.

Digital 1 Audio™, INC. 1176 NE Cleveland. Clearwater, FL 33755 www.pcdj.com

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- Written By: Christopher Skogen, David Mercado, George Tsagadopoulos, Jörgen Hedberg and Nathan Fleming



Figure 1: Reflex Graphical User Interface

System Requirements:

• CPU:

Minimum: Any Intel[®], AMD[®], Pentium II 800 MHZ, **Recommended:** 1GHz and above Dual Core

• Memory:

Minimum: 512 MB (Mega Bytes of RAM) Recommended: 1024 MB (Mega Bytes of RAM)

• Sound Card:

Minimum: Any multichannel sound card with at least 2 stereo outputs. **Recommended:**

No time code: Low latency ASIO multichannel sound card with at least 2 stereo outputs.

Stereo outputs and 2 stereo inputs.

Note: Reflex supports up to 5 stereo outputs and 3 stereo inputs.

ATTENTION: Reflex does not support dual soundcard setups.

• CD ROM Drive:

30X CD ROM or faster, will be able to support digital audio extraction on a hardware level.

• Hard Drive:

Size of HD varies depending on the amount of music you would like to store on your PC. 300 Music CD's use about 20 Gig's of HD space in MP3 format at 192Kbp/s. **Recommended:** HD Speed is 7200 RPM.

• Operating System:

Windows XP, Windows Vista

Note: When using DENON DN-HC4500 controller on a Windows Vista computer you should make sure that you have firmware V1.005 or greater installed, otherwise the controller won't be able to work both as a sound card and a MIDI controller

• Video Card:

Minimum: 32MB, with 1024x768 screen resolution. **Recommended:** 64MB and above.

• USB Ports:

The number of free High-Speed USB 2.0 ports required depends on your system configuration. However most likely you will need at least 1 port for an external controller like DENON DN HC-4500.

• Supported file formats:

wmv (audio only), wma, mp3, mp2, m4a, mp4, flac, mpc, ogg, wav, aif, aiff, aifc, au, caf, paf, sd2, w64, voc.

Note: Reflex does not support files that are protected by any form of DRM (Digital Rights Management).



Important Note: Please check for the current manual online at <u>www.pcdj.com/support/manuals</u> as software and documentation are updated frequently!

Digital 1 Audio INC. (PCDJ) 1176 NE Cleveland St Clearwater FL, 33755 727-799-3828

> Web Site: www.pcdj.com

Introduction:

Firstly thank you for choosing Reflex, before we detail how to use the application we should help you understand what Reflex is:

Reflex is a DJ application for real time usage, its goal is to enable you as a DJ to perform, create and remix in a way that was not possible before Reflex. All functions in the application are geared towards this goal, with easy to search and maintain database, help for beat matching and loop creation and more.

This on the fly, in the moment approach to performing means Reflex requires a minimal amount of preparation work to be able to perform advanced tricks. The complexity of functions has been kept low to encourage DJ's to use them live. The aim is for Reflex is to be very easy to use so DJ's will jump in and out of functions and will come to know these functions like the back of their hand this is best done by using external controllers, however we are aware there are DJ's that are very good with just using the keyboard, and you will of course be able to perform equally well just using a keyboard and mouse.

Using Reflex you will adopt a better way to organize your data rather than creating static folders on your hard drive. The Reflex library uses a SQL database engine which can easily handle millions of tracks, as a result the application does not use conventional static lists but advanced dynamic data driven queries, when you have them setup they will be self managing and require no DJ intervention.

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Chapter I: Preparation

Preparing Your Computer for PCDJ Reflex:

The tips below do not cover the complete scope for optimizing a PC for audio playback but cover the most commonly applied improvements

Make Sure Your Computer is Up-To-Date:

In order to avoid any problems running Reflex, you should update your OS (operating System) and configure your computer for best performance. Updating and configuring your computer is something you should do on a regular basis. This is not only for Reflex, but for any other programs where stability and performance are important to you.

Disabling Screen Saver & Adjusting Power Settings:

Right click on any blank space of your desktop, then click "properties" from the drop down list. The display properties window should appear. Click on the "Screen Saver" tab, then click on the arrow to the right of screen saver drop down list and select "None". Below the setting you just changed, click on the "Power" button. You should now see "Power Options" properties". Click on the arrow to the right of "Power Schemes", and change to "Full Power, or Always On", then click apply then "Ok".

Disabling Windows Transition Effects and Hibernation:

Display properties should still be open. At this point, click the "Appearance" tab and click the "Effects" button. Then uncheck the box to the left of "Use the following transition effect for menus and tool tips", "FADE". Now click "Ok", then "Apply". If you have a laptop, click on the "Hibernate" tab and uncheck "Enable Hibernation". Now click "Apply" then "Ok" on the "Display Properties" window to close. Turning off Fade effects should resolve any problems with possible skipping when minimizing Reflex.

Disable Windows Sounds:

Click Windows "Start" button and go to "Settings". Next, click "Control Panel" and open "Sounds and Audio Devices" by double clicking. Click on the "Sounds" tab and then click on the drop down arrow for "Sound Schemes". Select "No Sounds" then click "Apply" and the "Ok". This will eliminate Windows built in sounds from playing through your speaker system.

Disable USB power management:

Right click on "My Computer" and select "Properties". Click on the "Hardware tab" and then click on the "Device Manager" button. Expand the "Universal Serial Bus Controllers" entry to be able to see all your USB ports. Right click on any "USB Root Hub" entry and select "Properties". Click on the "Power Management" tab. Make sure that BOTH "Allow computer to turn off this device to save power" and "Allow this device to bring computer out off stand by" options are disabled. Click "Ok". Repeat these steps for all "USB Root Hub" entry ou finish close the device manger.

Close all other applications

It is strongly recommended that you close all applications on your computer when using Reflex. We do not support any problems that can occur as a result of their use or interfere with performance of Reflex.

ATTENTION: You should never run controllers like DENON DN HC-4500 from a USB hub when you use their audio card. If you are going to use them only as MIDI controllers then you can use a USB hub, but otherwise please connect them directly on a High Speed USB 2.0 port on your PC.

Chapter II: Installation

- 1. **Insert CD:** Place the Reflex installation CD into your CD-ROM.
- 2. **Run installer:** Your Reflex disc will auto-run and launch the menu screen. Just click option #1) "Install Reflex". If the Install menu does not appear double click on "My Computer", then right click on your CD-Rom drive and click "Explore". Look for and double click the InstallReflex.exe icon to start the installer.
- 3. Installation begins: The Reflex Installer will open, recommending you to close all other programs. Close all programs and click "Next".



Figure 2: Step 3: Start of Installation wizard.

4. License Agreement: If you agree, click "I Agree" to continue the installation. If you do not agree, click "Cancel" to exit.

PCDJ Reflex Setup			
License Agreement Please review the license terms before installing PCDJ Reflex.			
Press Page Down to see the rest of the agreement.			
GizmoLabs Terms of Use	^		
END USER LICENSE AGREEMENT (EULA)			
GizmoLabs, Inc. grants you a non-exclusive license to use the Software free of charge Although you are free to use the Software, you are not free to reproduce and redistribute the Software without the express written consent of GizmoLabs, Inc.			
DISCLAIMER OF WARRANTY. Free of charge Software is provided on an "AS IS" basis, without warranty of any kind, including without limitation the warranties of merchantability, fitness for a particular purpose and non-infringement. The entire risk a	as 💌		
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install PCDJ Reflex.			
Nullsoft Install System v2.29			
< <u>B</u> ack I <u>A</u> gree Ca	ancel		

Figure 3: Step 4: License Agreement.

5. **Install Location:** It is highly recommend that you install Reflex to the default location for technical support reasons.

PCDJ Reflex Setup	
Choose Install Location Choose the folder in which to install PCDJ Reflex.	((*))
Setup will install PCDJ Reflex in the following folder. To install in a different folder, cl Browse and select another folder. Click Install to start the installation.	ick
Destination Folder	
Space available: 14.9GB	
Nullsoft Install System v2,29	Cancel

Figure 4: Step 5: Install Location.

6. **Installation Complete:** The installation is now complete click on the "Finish" button to complete the wizard.



Figure 5: Step 6: Installation Complete.

Chapter III: GUI Overview

In this section we will give you an overview of the Reflex GUI (Graphical User Interface). It will help you become familiar with some of the terms used to describe the software elements throughout the manual.



Figure 6: GUI Elements.

1. Master section:

This section contains three main elements. This section will be detailed later in the manual

- i. **Match Buttons:** "Match 1, 2 or 3" will adjust the Sync lock slider so it matches the corresponding player, when activated if the BPM of the player is within %5 of the sync lock slider it will be illuminated in blue.
- ii. **Sync Lock tempo in BPM Slider:** When the lock feature is selected this slider is used to control the playback BPM of whichever players have the lock feature enabled.
- iii. **DSP Load:** The DSP (Digital Signal Processor) is the brain behind Reflex giving visual indication of how hard Reflex is working. You should keep an eye on this section during your performance to make sure you are not driving Reflex to hard. Under heavy DSP load Reflex can suffer a DSP overload.

Note: to reset the DSP double click on the area that says "DSP Load".

iv. **Clock display:** Displays the current time.

The details of the following sections are covered in depth later in the manual.

2. Player Section:

This is where Reflex comes to life and the area you will come to know the most.

3. Library Section:

This is where Reflex stores and provides access to your music.

4. Mixer Section:

When using the internal mixer, you will control the audio of your system here.

5. Menu options:

5.1. <u>File menu:</u>

Selecting the file menu provides the following options:

New playlist	Alt+P
New playlist from selection	Shift+Alt+P
New smart playlist	Alt+S
Create duplicate playlist	Alt+D
Edit smart playlist	Shift+Alt+S
Add file to library	Alt+O
Add folder to library	Alt+F
Start track scanner	Alt+B
Get info	Alt+I
Show track location	Alt+T
Exit	Alt+F4

Figure 7: File menu options.

New playlist: Selecting this option will create a new playlist.

New playlist from Selection: Selecting this option will create a new playlist from the selected files.

New smart playlist: Selecting this option will start the new smart playlist creation window.

Create duplicate playlist: When selected this option will create a duplicate of the currently selected playlist. It will keep the same name but it will have (copy) appended to the end of the existing name.

Edit smart playlist...: When you have a smart playlist selected in the group list box selecting this option will open the "Edit smart playlist window"

Add file to library: Selecting this option will open a browser window so you can add a file or files to Reflex.

Add folder to library: Selecting this option will open a browser window so you can add folder of files to Reflex.

Start track scanner: Selecting this option will start the track scanner.

Get info: Selecting this option will open the "Get Info" screen for the selected track or tracks.

Show track location: Selecting this option will open up a browser window where the track is located.

Exit: Selecting this option will exit Reflex; a confirmation dialogue box will appear.

5.2. <u>Edit menu:</u>

Selecting the Edit menu provides the following options:

Vinyl timecode	Alt+V
Preferences	Alt+C
Reconnect controllers	Alt+R

Figure 8: Edit menu options.

Vinyl timecode...: Selecting this option will open the vinyl timecode configuration settings. Reflex checks if the connected soundcard has any audio inputs, if none are found it will not open and show an error message.

Preferences...: Selecting this option will open the preference settings dialogue box.

Reconnect controllers: Selecting this option will force Reflex to reconnect any connected controller. This option is helpful to reset any controller that might become un-responsive...

5.3. <u>View menu:</u>

Selecting the View menu will get the following options:

Effects
Plugins
Filter
Vu meter
Player 1
Player 2
Player 3

Figure 9: View menu options.

Effects: This option allows you to show or hide the effects module from the players.

Plugins: This option allows you to show or hide the VST effects module from the players.

Filter: This option allows you to show or hide the filter module from the players.

VU meter: This option allows you to show or hide the VU meter from the players.

Player 1: This option allows you to show or hide player 1.

Player 2: This option allows you to show or hide player 2.

Player 3: This option allows you to show or hide player 3.

Stip: You can resize the width of the player section by dragging the cross hairs in between players

Mixer: This option allows you to show or hide the mixer section.

5.4. <u>Help menu:</u>

Selecting the Help menu provides the following options:

<u>About Reflex...</u> Figure 10: Help menu options.

About Reflex: This option will display the Reflex licensing information.

Chapter IV: Setting your Preferences

Reflex eliminates the need for numerous preferences settings however there are a few options you will need to set in order for the software to match your needs.

Open the Preferences Dialog box:

- 1. Select "Edit"
- 2. Select "Preferences"

The Preferences window should appear with 4 tabs named "General", "Audio", "Player options" and "Outputs"

Note: All changes on the Preferences window take place immediately as a result it is recommended that you avoid changing any of these settings in a live performance environment.

♥<u>TIP:</u> You can **RESET** all settings back to their default values by holding down left Ctrl key on your keyboard when you start Reflex.

The General Tab:

Here you will find various options that regard the general software behavior:

Preferences	×
General Audio Player options Outputs	
Options	
Enable automatic scanning If this option is enabled, scanning of tracks will automatically start when the program starts, or the library is modified.	
Write database changes to tag	
If this option is enabled, all changes made to database including bpm scan results, will also be written to file tag (unless track file is read only).	
Enable intelligent volume compensation	
If this option is enabled, tracks will play with the same perceptual volume, so low volume tracks will play louder and louder tracks lower, it does this with out any degradation to audio, this is NOT a compressor.	
Delete track from waitlist on load	
Sort playlist box alphabetically	
Enable match BPM to running player on load If this option is enabled, when loading and BPM is <10 BPM from running player it will match the tempo.	
Close Cancel Apply	

Figure 11: Preferences Dialog, General Tab.

1. Enable automatic scanning:

If this option is enabled, scanning of tracks will automatically start when the program starts, or the library is modified.

2. <u>Write database changes to tag:</u>

If this option is enabled, all changes made to database including BPM scan results, will also be written to the ID3V2 tag (unless the file is read only).

Note: This feature only works for MP3 as this is the only format supporting the use of tags within the file.

<u>TIP</u>: It is recommended that you decide what options you are going to choose for these settings before adding tracks to the library.

3. Intelligent Volume Compensation:

Reflex offers a feature called intelligent volume compensation which is enabled by default. This feature will make sure that tracks are output with the same volume.

This is not normalizing. it affects how you perceive the volume, this feature will prevent you from having to lower the volume when auto playing. Reflex will raise the volume on low gain tracks and lower the volume on a high gain track; it does this without affecting the audio quality. It is recommended to always have this option enabled. If something plays louder it does not mean it has better sound quality, the reason it lowers some tracks is to give headroom for other tracks to reach the same perceived volume. Pop music today can be hyper compressed and very loud. Using this option will make you able to mix all kind of music automatically without gain problems.

4. <u>Delete track from waitlist on load:</u>

This option when enabled will remove a track from the waitlist once the track is loaded into any of the three players.

5. Sort playlist box alphabetically:

If this option is checked the playlist group box is sorted alphabetically please note this will override any manual sorting.

6. Enable match BPM to running player on load:

When this option is enabled it will match the running player's BPM to the new BPM of the player you load if the BPM difference is within +/- 10 BPM.

The Audio Tab:

In this section you are going to set up your sound card.

Preferences
General Audio Player options Outputs
Soundcard Driver:
WDM Realtek HD Audio output 🛛 🗠
Sample Rate: 44100
Latency:
Smaller buffer sizes yield faster control response and lower audio latency; however, smaller buffers require more cpu power than larger ones. If your audio is popping or crackling, increase the buffer size.
Close Cancel Apply

Figure 12: Preferences Dialog, Audio Tab.

You can select your sound card from the drop-down list and change its sample rate and latency. If you have an ASIO sound-card, a button will be present that will allow you to open your card's ASIO control panel.

Please note that smaller buffer sizes yield faster control response and lower audio latency; however, smaller buffers require more CPU power than larger ones. If your audio is popping or cracking, increase the buffer size.

ATTENTION: You cannot run timestretch on HQ mode with an 88 Samples buffer size for instance. If you are going to use timestretch it is **strongly recommended** to use a buffer size around 256 – 384 Samples, since the timestretch algorithm makes latency go around 18 ms regardless of the buffer size. The reason for this is that Reflex's timestretch algorithm is not a buffer base repeat model but it analyzes the audio and regenerates it in blocks.

The Player Options Tab:

Here you'll find several settings regarding player behavior.

Preferences
General Audio Player options Outputs
 Player options Enable key scratch player 1 Enable key scratch player 2 Enable key scratch player 3 If this option is enabled and timestretch is on, scratching will use timestretch instead of pitch to scratch, and audio will only change speed and not pitch 86 Prake time (1-90) 86 Prag time (1-90)
Close Cancel Apply

Figure 13: Preferences Dialog, Player Options Tab.

1. Enable key scratch on players:

You can enable this option on players 1, 2 and 3 by putting a tick alongside the option for the player you wish to enable it on. If this option is enabled and time stretch is on, scratching will use time stretch instead of pitch to scratch, and audio will only change speed and not pitch.

2. Drag and Brake:

Drag is the start up time and Brake is the slow down time for the power on/off effect. A lower value in, "Brake time (1-90)" means a faster start up time and a lower value in, "Drag time (1-90)" will mean a faster slow down time. The default value for both these options is 86.

3. Enable high quality time stretch:

You can enable this option on players 1, 2 and 3 to do so put a tick alongside the option for the player you wish to enable it on. The software uses two time stretch algorithms simple time stretch and high quality time stretch. By default simple time stretch is activated.

Note: If you enable high quality time stretch the software will display "Stretch (HQ)" on the stretch button in the GUI.

Note: High quality time stretch requires a very fast CPU, and buffer size is recommended to be 256 samples or higher. Not all computers can handle this mode, if you get audio dropouts, use a larger buffer or turn off this option.

The Outputs Tab:

This tab offers you two new sub tabs which control the audio output (the "Connections" tab) and the VST plug-ins (the "VST Effects" tab) of Reflex.

In the lower part of the connections tab there is a check box named "Use External Mixer" which tells Reflex if you intend to use an external mixer, after setting this you will be provided with two sets of different options for your audio output:

1. Internal Mixer Settings:

If you have the "Use External Mixer" un-checked you should see 5 drop down lists on the "Connections" tab. These are the "Main", "Booth", "Aux 1", "Aux 2" and "Headphones" outputs. For each of these outputs you can select a channel of your sound-card where Reflex will route the sound.

Preferences	×
General Audio Player options Outputs	
Connections VST Effects	
Main: Channel 1-2 Stereo	
Booth:	
Channel 3-4 Stereo	
Aux 1:	
Channel 5-6 Stereo	
Aux 2:	
Not Connected	
Headphones:	
Channel 7-8 Stereo	
Use External Mixer	
Close Cancel Apply	

Figure 14: Preferences Dialog, Outputs Tab, Connections Sub Tab (Internal Mixer).

"Main", "Booth", "Aux1" and "Aux2" ports are all providing the same output which is the Master output of the software mixer. Typically you should connect your amplifier on the "Main" output and if you have a separate amplifier or zone with speakers for your DJ Booth, on the "Booth" port... Auxiliary ports "Aux 1" and "Aux 2" can be connected to any type of musical device that accepts a "Line-in" connection. You can use these ports to connect to various devices such as DAT/Mini-Disc recorders, separate amps to provide you zone control, samplers, hardware effect modules etc.

Keep in mind that all 4 ports have independent volume control and they act exactly the same providing exactly the same sound output.

The fifth output "Headphones" is the port in which you connect your headphones that allow you to pre-listen to your music before it goes live. In this port you will hear whatever you set the "Cue" buttons on the software mixer of Reflex to monitor.

Despite the fact that Reflex has a very advanced internal mixer you should use the "internal mixer" function only if you don't have an external hardware mixer connected or if you want to have a very small setup. Keep in mind that in order to enjoy the internal mixer your soundcard must have at least 2 stereo outputs, while in order to enjoy the full power of the internal mixer your soundcard must provide up to 5 stereo outputs!

2. External Mixer Settings

Preferences	×
General Audio Player options Outputs	_
Connections VST Effects	
Player 1:	
Channel 1-2 Stereo	
Player 2:	
Channel 3-4 Stereo	
Player 3:	
Channel 5-6 Stereo	
Library:	
Channel 7-8 Stereo	
✓ Use External Mixer	
Close Cancel Apply	

Figure 15: Preferences Dialog, Outputs Tab, Connections Sub Tab (External Mixer).

If you tick the "Use External Mixer" check-box you will see 4 drop down lists on the "Connections" tab. These are "Player 1", "Player 2", "Player 3" and "Library". These are for the three players and the library player and as before you can select a channel of your sound card where Reflex should route the sound. Use this option if you have a hardware external mixer connected that you would like to use with Reflex. As the labels say each port routes the sound of each player and the library. When the external mixer is selected, you will still be able to see the internal mixer on Reflex, but none of its controls will function as Reflex will route the sound directly to your soundcard outputs.

After setting your Preferences click on "Close" button to return to the main program

3. VST Effects configurations

3.1. <u>Internal mixer</u>

If you are using the internal mixer of Reflex you will see the settings in the screenshot below:

Preferences	X
General Audio Player options	Outputs
Connections VST Effects	
Main: SaffireEQ	✓ SaffireComp ✓
Edit Bypass	Edit Bypass
Booth: SaffireComp	
Aux 1:	None
Edit Bypass	Edit Bypass
Aux 2: None	None V
Edit Bypass	Edit Bypass
(Close Cancel Apply

Figure 16: Preferences Dialog, Outputs Tab, VST Effects Sub Tab using internal mixer.

<u>TIP</u>: To use VST effects within Reflex first you must create a folder within the Reflex installation directory called "VST" and then simply place your extracted VST plug-ins within this folder and they will become available to Reflex.

Note: Reflex only checks for installed VST plug-ins at start up. If you copy new plug-ins into your "VST" folder while Reflex is running, you'll have to restart Reflex in order to for them to become available.

You have the same options for all of the following connections "Main", "Booth", "Aux 1" and "Aux 2".

Note: Please see "1. Internal Mixer Settings:" above for further information on these connections.

Each connection supports, two VST plug-in effects. To activate a plug-in select it from the drop down menu. You can also edit the parameters of the plug-in by clicking on the "Edit" button. If you need to bypass the plug-in so it is no longer active place a tick in the "bypass"

3.2. <u>External mixer</u>

If you are using an external mixer you will see the settings in the screenshot below:

Preferences	×
General Audio Player options Outputs	
Connections VST Effects	
Player 1:	
None V None V	
Edit Bypass Edit Bypass	
Player 2:	
None 💟 None 💙	
Edit Bypass Edit Bypass	
Player 3:	
None V None V	
Edit Bypass Edit Bypass	
Library:	
None V None V	
Edit Bypass Edit Bypass	
Close Cancel Apply	

Figure 17: Preferences Dialog, Outputs Tab, VST Effects Sub Tab using external mixer.

You have the same options for all of the following players within Reflex "Player 1", "Player 2", "Player 3" and "Library".

Each player supports 2 separate VST Plug-ins to activate a plug-in select it from the drop down menu. You can also edit the parameters of the plug-in by clicking on the "Edit" button. If you need to bypass the plug-in so it is no longer active place a tick in the "bypass".

Note: Reflex will transfer the settings for VST plug-ins when toggling between internal and external mixer. It is recommended that you reset the settings for them when toggling between the two modes so they don't get applied by accident.

Note: You also have access to the plug-ins for Players 1, 2 and 3 in the main Reflex window.

Chapter V: Adding files to the library

Reflex stores information for the music you have added to the library in a file called "Reflex Library.gll" which by default is placed inside the, "My Music" folder within your Windows user profile. When you add files to the library the software scans the files for certain information which is then stored in the database, what happens during scanning will be covered in depth later in the manual.

ATTENTION: The software doesn't support the location of the library file on a network volume; this must be located on either an internal drive or an external USB or Fire wire device. Please note however audio files can be located on a network volume.

The software has three methods to add audio files to the software.

1. Adding individual files:

To add individual files to the library.

- 1. Click on "File"
- 2. Select "Add file To Library"
- 3. This will open up a browser window.
- 4. Browse to the folder containing the files you wish to add.
- 5. Select the appropriate option from the "File of type" drop down menu. By default "MP3 files (*.mp3)" is selected.
- 6. Select the file you wish to add or to add multiple files select a file and hold down shift and select another file, to add all files in between the two selections or select individual tracks and hold down Ctrl to select multiple tracks.
- 7. Click "Open".

The shortcut for this option is "Alt+O".

2. Adding folders:

To add a folder full of audio files to the library:

- 1. Click on "File"
- 2. Select "Add folder to library"
- 3. This will open up a browser window.
- 4. Browse to the folder you wish to add.
- 5. Click "Ok"
- 6. Please note any sub folders containing audio files will also be added to the library.

The shortcut for this option is "Alt+F".

1. Drag and drop:

You can drag and drop a music folder onto the main library window.

- 1. Using a browser window navigate to the file or folder you wish to add.
- 2. Select this window.
- 3. Drag your selection into the library main window.

Step TIP: This will create a Smart playlist named after the folder name you added. For example drag and drop your Alternative Rock, R&B and Pop folders one at a time to instantly create a smart playlist of the contents.

Chapter VI: Library Overview

Your music is contained within the Library section of Reflex and this section of the manual is where you will get an overview of the features.



Figure 18: Library Section Overview.

1. Library Player:

The library section has a library player function which allows you to review any track before loading to one of the three players. To play a track in the library player select the track you wish to audition and press the library section play button. To scan through the track, the library player features forward and reverse track scan buttons. The elapsed time is indicated alongside the library player buttons. There is a stop button so you quickly stop the currently loaded track and listen to another track.

2. Smart View:

Reflex learns the tracks you mix whilst you are playing and will present you with a list of tracks you have mixed with the selected track before. With this feature the more you use Reflex the more it will learn and help you to pick your tracks.

Reflex sorts the tracks with the most popular ones first. Smart waitlist will keep a history of 100 suggestions for each individual track. Each individual track will hold a maximum of 100 separate mix suggestion, when passing 100, it removes the oldest, as a result the database maintains itself, so no housekeeping is required by the user.

Reflex will log tracks when they are played without stopping for more than 1 minute. If you overlap in a mix the entry will also show up in the smartlist as a mix suggestion. As this is a feature based on Reflex learning your style it may be a while before Reflex starts to populate suggestions but when this feature builds data mixing will never be the same again.

The smart waitlist function is completely self managing and as such doesn't require any work from the user, to see the suggestions made by Reflex click on the "Smart view" button.

2.1. Waitlist:

Reflex offers a waitlist area so users have a quick place to store requests that might be played shortly.

To view the waitlist click on the "Waitlist" button on the GUI and it will appear.

To add a track to the waitlist either drag and drop to the waitlist, select a track and right click selecting "add selection to waitlist" or select a track and press the "Ins" button.

Step **TIP:** Reflex retains tracks in the waitlist even after closing so you don't need to worry about losing the contents of the waitlist should you exit the application.

Strip: To use this feature efficiently we recommend only storing 5-10 tracks but there is no limit to the amount tracks it can hold.

3. Search Box:

Reflex incorporates an instant find as you type search feature, typing in the search box will narrow down the results in the library main window.

All visible fields within Reflex will be searched so it doesn't matter if you type in an artist's name, musical genre or a year Reflex will instantly find what you are looking for assuming you have these fields on view.

Stip: Reflex will retain the search query within the search box so whatever you have entered can be applied to any group. To apply your search to another group select any group from the group list box and your entered search query will instantly be applied to the newly selected group.

by TIP: Pressing "Tab" will select all the results in the search field so you can quickly clear its contents and begin a new search.

♥ <u>TIP:</u> Pressing "Esc" will clear the contents of the search box.

Search for each of the 2 words individually and will probably return lots of results, type another word e.g. if you typed the song title add the artist and vice versa, this will make the results more specific.

4. Group List Box:

Reflex stores its smart playlists and static playlists in a section called the group list box. To view a group, select it in the group list box and the contents will appear in the main library window.

5. Main library window:

The contents of your smart playlists and static playlists are displayed in the main library window. If you click on either the "Waitlist" or "Smart view" buttons they will be displayed in the lower half of the main library window.

6. Auto:

Reflex offers a very simple to use auto play feature which can be started at any time by clicking the auto button.

Reflex will only use player 1 and player 2 when in auto play mode. You can enable auto play no matter what player is playing, Reflex will check each player and will use player 1 for next track if 2 or 3 is playing, and it will use player 2, if player 1 is playing. If you have no tracks loaded in the player and you enable auto play mode Reflex will load the track which is currently selected to player 1 and then next track in the list into player 2.

When selecting auto Reflex will make a copy of the list you are currently browsing and will use that list to automatically handle playback. Auto play will also work from the waitlist, please note however if you have "delete from waitlist on load enabled" it will still perform this delete, when the software has emptied the waitlist it will then revert to the list currently selected in the group list box.

When using a playlist for auto play the auto play order will be controlled by the playlist order, when using a smart playlist the auto play order will be controlled by the sort order within your smart list query.

Reflex will repeatedly loop through the selected list so music will continue until auto play is disabled. Each time a player starts a track in auto play it makes a note of what track it is so it doesn't play it twice in that cycle of the selected group. This list is cleared every time a list rolls over to the beginning of the group or when auto play is disabled. You can override a track that auto play has loaded by simply loading whatever track you want to play next, and that track will then later be skipped by auto play during that session.

The way auto play mixes the songs is very simple: When it reaches 15 seconds before the end of the track that's currently playing it will illuminate the play button on the next player and if the track is within +/- 5% pitch range of the track that is about to start it will match it, else it will put the starting track pitch to zero (normal speed). Then when the playing track reaches a beat grid location at about 10 seconds from the end it will start the mixing. It will indicate this by illuminating the "Mix Now" button and mix it with the next song's auto-cue point as a start point. You can always override a playlist selected track for auto play by simply loading another track into the upcoming player. If you wish you can program the auto mix settings for each track by creating 3 cue-points:

a)"MixStart" auto play will use it as start point

- b)"MixEnd" auto play will use it as endpoint
- c)"MixEndFade" auto play will use it as end, and fade it down in 15sec

You can disable auto play at any time by clicking the auto button once again. Also Reflex will automatically exit auto play mode if you manually press PLAY/CUE on player 1 or player 2. When you are in auto play mode you can still use the case player and player 3 to preview tracks and/or make any changes on a track's cues/hotcues/loops etc.

Please note Reflex will not log any tracks played in auto play, because such behaviour would affect the smart list function (which is detailed elsewhere within the manual).

b TIP: You can continue browsing the library, making searches etc and the auto play won't be affected.

by **TIP:** If you have a filter applied when activating the auto play function Reflex will create the auto play list based on the results of the filter

6.1. Mix Now:

Reflex has a mix now button; pressing mix now tells the playing track that it has 15 seconds remaining and the time on the GUI will change to reflect this. Reflex will then fade the player's volume whilst mixing into the other player.

Note: The actual playback position doesn't shift to the point in the song where 15 seconds are remaining. Reflex details the time left before playback ends on the current player.

Note: The mix now button only works with players 1 & 2. If player 3 is playing it will start player 1 but player 3 will not stop playing.

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7. Status Bar:

When in scanning mode the status bar will detail which track is currently being scanned. At all other times the status bar will indicate how many tracks are in the selected group or currently applied filter.

Chapter VII: Players Overview

Reflex features 3 players and each player is identical and in this section we will give you an overview of the main sections.



Figure 19: Player Section Overview.

1. Player controls:

Here you will find all of the familiar controls for controlling audio as well as some which are unique to Reflex.

2. Wavetable Display:

This section displays times and BPM as well as the wavetable for the current track.

3. Effects:

This section of the GUI has 4 very useful effects and they are detailed later in the manual.

4. Plug-ins:

This section is a shortcut to controlling your VST effects within Reflex.

5. Filters:

This section is where you manipulate the filters within Reflex.

6. VU Meters:

This section is where you will find the VU meter for the player.

Chapter VIII: Advanced library functions

Reflex has many advanced library functions which we will now detail:

1. Library Scanner

When you add files to the database Reflex will import the id3v2 data and add this to the database.

By default the automatic scanner is enabled and as soon as you add tracks it will start to scan for the BPM of the track, the beat grid, where the beats are located, the auto cue, where audio starts, and the perceptual volume of the track.

Information on what is being scanned at the present time appears below the library window. The scanner progress indicator will indicate the current track being scanned its numeric position within the current batch and how many tracks will be scanned in total.

Writing database changes to tag:

The "Write database changes to tag" option is by default turned off, and if on it will write all data changes and also the scanned result to the file tag, currently it will only do mp3 tags. It uses standard id3v2 frames where it can.

BPM Extraction:

When a track is scanned the BPM extraction algorithm in most cases detects the correct BPM however sometimes it may pick up an alternate tempo. It can be 2x,1/2,1/3 etc of actual tempo. This is a harmonic of the correct BPM, so you might need to manually pick the correct one.

To manually enter the BPM you need to go into in the Get info screen to do this right click on the track and select the "Get info" option or use the shortcut "Alt+I". In the Get info screen you have 2 buttons in the upper right corner. The first one is "Rescan BPM" and the other one is "Rescan Grid". You also have a drop down list on the BPM field in which you will find the correct BPM.

Info: Rihanna - Don't Stop the Music	×
Title Don't Stop the Music Artist Rihanna Album Good Girl Gone Bad Genre R&B Version	BPM 122.69 ▼ ReScan BPM ReScan grid 61.35 70.11 76.68 81.59 92.25 vuto cue(mSec) Mood 98.15 107.35 122.69 70.11 76.68 107.35 122.69 107.35 122.69 107.35 122.69 107.35 122.69 107.35 107.35 122.69 107.35 107
Grouping	Fileowner
Comments	Publisher / Label Read tag
Format Encoding: mp3 Size: 6.63 Bitrate: 320 Kbit Channels: 2 Location: Z:\Music\International\Club Zone\Beats\M Previous Next	3 MB Samplerate: 44100 Track length: 04:27.12 ainstream\Rihanna - Don't Stop the Music.mp3

Figure 20: Get Info Screen showing BPM drop down.

Once you find the correct BPM <u>you must</u> rescan the grid. This will make a new grid for your new BPM. To rescan the grid for the current track, click on the "Rescan Grid" button.

The "Rescan BPM" button is there in case you want to scan back to the original detected BPM.

Rescan Selection:

Reflex allows you to rescan specific tracks. To use this feature select the tracks that need to be rescanned and right click and select "Request new auto scan on selected tracks".

Note: If automatic scanning is disabled the scanner will be started by this feature, however this feature does not re-enable automatic scanning.

Rescan Playlist:

Reflex allows you to rescan the entire contents of a group. To use this feature select the playlist you wish to rescan and right click and select "Rescan playlist"

Note: If automatic scanning is disabled the scanner will be started by this feature, however this feature does not re-enable automatic scanning.

Start Track Scanner:

If automatic scanning is disabled then scanning can be started again by using this feature. To use this feature select the "File" menu and select the "Start track scanner" option. The shortcut for this feature is "Alt+B". This feature does not re-enable automatic scanning.

Reflex Scan log:

Reflex creates a file called "Reflex scanlog.txt" this is located within the, My Music folder of your windows user profile. This file details every track that has gone through the scanner in the current session. This file is recreated by Reflex upon loading.

Scanlog.txt" and review this file as this will indicate which file has not been picked up by the scanner.

by TIP: You can test if a BPM value is the correct one by loading the track on a player, do a loop and check if it loops correctly!

STIP: If you wish to rescan a track you can also select "Request new auto rescan on selected tracks" on the library window and it will rescan selected tracks BPM, grid, autocue, and gain. To do this, select the tracks that need to be scanned and right click and select "Request new auto rescan on selected tracks".

Note: The scanner only scans tracks with a length up to 20 minutes, the reason for this is because as a general rule anything longer will either be a mix of songs or a song which contains a hidden bonus track and any BPM calculations would be incorrect as the calculation would be based on the values of multiple songs. Any tracks longer than 20 minutes will as a result not have a wavetable generated for them as this is generated when the BPM is scanned.

Steps: Any tracks that have failed scanning by the scanner will be listed under the failed "Failed scans" group in the group list box section

ATTENTION: It is not recommended that you perform any scanning operations in a performance environment due to the fact that the scanner will use system resources which could otherwise be used by the DSP of Reflex.

2. Organizing Library:

Reflex has a very adaptable library section and here we will detail customizing things to your specific needs.

Note: The main library window and smart view sections have separate column headers so they can be customized to your specific requirements independently of one another.

Re ordering columns:

To re order a column, select the column header that you wish to adjust and then drag it to the required position.

Resizing columns:

To resize a column select the right hand edge of the column and drag it to the required width.

th **<u>TIP</u>**: It is possible to lose a field by resizing it so if this happens, simply follow the steps below to hide the column and again to show the field this will bring the column back to the default size.

Hiding/Showing columns:

Hiding a field:

To hide a field right click on the header and remove the tick from the field you wish to hide.

Showing a field:

To show a field right click on the header and place a tick in the field you wish to show.

Note: When performing searches Reflex will only search against fields that are visible in the library.

3. Library columns:

In this section we will detail all the library columns so you understand what the columns are for. The Reflex library columns are configured as follows:



Figure 21: Library section, right click column header options.

Added: This column details when the track was added to the Reflex Library and is displayed as a date

<u>Album</u>: Details the album and uses the id3v2 standard field ID3FID_ALBUM.

<u>Artist</u>: Details the artist and uses the id3v2 standard field ID3FID_LEADARTIST.

Auto Cue: Details the auto cue position and uses the id3v2 standard field ID3FID_EVENTTIMING.

<u>Bit-rate</u>: Details the bit rate of the track and is calculated by Reflex when it is scanned by the scanner.

BPM: Details the BPM and uses the id3v2 standard field ID3FID_BPM .

<u>Channels</u>: Details the number of channels within the track and is calculated by Reflex when it is scanned by the scanner.

<u>Comment</u>: Details comments and uses the id3v2 standard field ID3FID_COMMENT.

<u>Copyright</u>: Details the copyright information and uses the id3v2 standard field ID3FID_COPYRIGHT.

Encoder: Details the encoder used to create the track and is and is detected by Reflex when it is scanned by the scanner.

Note: This is displayed as Encoding within the "Get Info" screen.

File Owner: Details the files owner and uses the id3v2 standard field ID3FID_FILEOWNER.

Filename: Details the file name of the track and includes the extension.

<u>Flag Code:</u> Is a database only field and is reserved for later use and is currently not being used by Reflex.

Format: Is a database only field and is reserved for later use and is currently not being used by Reflex.

Genre: Details the genre of the track and uses the id3v2 standard field ID3FID_CONTENTTYPE.

Grouping: Details the grouping field and uses the id3v2 standard field ID3FID_CONTENTGROUP (TIT1).

 \checkmark <u>TIP:</u> This field was created to replace the tab features of some legacy products to allow a user to create sub tabs which you can browse using the browse feature which is detailed elsewhere in the manual.

ID3 Tag: Is a database only field and is reserved for later use and is currently not being used by Reflex.

ISRC: Details the ISRC field and uses the id3v2 standard field ID3FID_ISRC.

<u>Kind</u>: Is a database only field and details the codec and is detected by Reflex when it is scanned by the scanner.

Last Played: Details when the track was last played by Reflex and is displayed as a date
Modified: Is a database only field and details when the tracks details were last modified and is displayed as a date.

Mood: Details the mood field and uses the id3v2 standard field ID3FID_PRIVATE (owner set to "WM/Mood" compatible with by Microsoft media player mood)

Path Only: Details the artist field and uses the id3v2 standard field ID3FID_LEADARTIST.

Play Count: Details the number of times the track has been played and uses the id3v2 standard field ID3FID_PLAYCOUNTER.

Play Length: Details the track length and uses the id3v2 standard field ID3FID_SONGLEN.

Publisher: Details the publisher field and uses the id3v2 standard field ID3FID_PUBLISHER.

Rating: Details the rating of the track and uses the id3v2 standard field ID3FID_POPULARIMETER.

Replay Gain: Details the replay gain and uses the id3v2 standard field ID3FID_COMMENT.

Sample Rate: Details the sample rate and uses the id3v2 standard field ID3FID_PRIVATE (owner set to "GL/BeatGridSampleRate")

<u>Title</u>: Details the title field and uses the id3v2 standard field ID3FID_TITLE.

Track No: Details the track number and uses the id3v2 standard field ID3FID_TRACKNUM .

Track Total: Details the total tracks number and uses the id3v2 standard field ID3FID_TRACKNUM .

Version: Details the version field and uses the id3v2 standard field ID3FID_SUBTITLE.

Year: Details the year field and uses the id3v2 standard field ID3FID_YEAR.

Note: Reflex conforms to the id3v2.3 standard.

Note: Reflex also stores the beat grid within the files id3 tag and uses the id3v2 standard field ID3FID_PRIVATE (Little endian unsigned INT with sample positions as bin data owner set to "GL/BeatGrid")

4. Right Click options:

4.1. Group List Box:

If you right click on the group list box you will get the following options:

New playlist	
New smart playlist	
Create duplicate playlist	
Edit smart playlist	
Rename playlist	
Delete playlist	
Rescan playlist	
Remove tracks in playlist from database	9

Figure 22: Group list box, right click options.

New playlist:

Selecting this option will create a new playlist.

New smart playlist...:

Selecting this option will start the new smart playlist creation window.

Create duplicate playlist:

When selected this option Reflex will create a duplicate of the currently selected playlist. It will keep the same name but it will have (copy) appended to the end of the existing name.

Edit smart playlist...:

When you have a smart playlist selected in the group list box selecting this option will open the "Edit smart playlist window"

Rename playlist:

Selecting this option will open a dialog box so you can change the name of the selected playlist or smart playlist.

Delete playlist:

Selecting this option will delete the selected playlist or smart play list. A confirmation dialogue box will appear.

Rescan playlist:

Selecting this option will start the track scanner and re scan the tracks within the select play list or smart playlist.

Remove tracks in playlist from database:

Selecting this option will remove all the tracks in the selected playlist or smart playlist from the database.

4.2. Library main window:

If you right click on the library main window you will get the following options:

New playlist	
New smart playlist	
Create duplicate playlist	
Edit smart playlist	
Rename playlist	
Delete playlist	
Rescan playlist	
Remove tracks in playlist from database	

Figure 23: Library main window, right click options.

Add selection to waitlist:

Selecting this option will add the selected tracks to the waitlist.

Add selection to playlist...:

Selecting this option will open up the play list box so you can add the selected tracks to a playlist.

Add selection to new playlist:

Selecting this option will bring up the new playlist name window so you can add the selection to a new playlist.

Load player 1:

Selecting this option will add the selected track to player 1.

Load player 2:

Selecting this option will add the selected track to player 2.

Load player 3:

Selecting this option will add the selected track to player 3.

Get Info:

Selecting this option will open the "Get Info" screen for the selected track or tracks.

Show track location:

Selecting this option will open up a browser window where the track is located.

Request new autoscan on selected tracks:

Selecting this option will start the track scanner and re scan the selected tracks.

Delete selected tracks:

Selecting this option will delete the selected tracks from within the Reflex library. Please note this option will not delete the files themselves and will only remove them from the database.

4.3. Waitlist:

If you right click on the waitlist you will get the following options:

Delete selection from waitlist	Del
Add selection to new playlist	•
Load player 1	Num1
Load player 2	Num2
Load player 3	Num3
Add track from player 1	
Add track from player 2	
Add track from player 3	
Get info	Alt+I
Show track location	Alt+T

Figure 24: Waitlist: Right click options.

Delete selection from waitlist:

Selecting this option will delete the selected tracks from the waitlist.

Add selection to playlist...:

Selecting this option will open up the play list box so you can add the selected tracks to a playlist.

Add selection to new playlist:

Selecting this option will bring up the new playlist name window so you can add the selection to a new playlist.

Load player 1:

Selecting this option will add the selected track to player 1.

Load player 2:

Selecting this option will add the selected track to player 2.

Load player 3:

Selecting this option will add the selected track to player 3.

Add track from player 1:

Will add the track loaded in player 1 to the waitlist.

Add track from player 2:

Will add the track loaded in player 2 to the waitlist.

Add track from player 3:

Will add the track loaded in player 3 to the waitlist.

Get Info:

Selecting this option will open the "Get Info" screen for the selected track or tracks.

Show track location:

Selecting this option will open up a browser window in where the track is located.

4.4. Smart View:

If you right click on the smart view you will get the following options:

Add selection to waitlist	Ins
Add selection to playlist	
Add selection to new playlist	
Load player 1	Num1
Load player 2	Num2
Load player 3	Num3
Get info	Alt+I
Show track location	Alt+T
Request new autoscan on selected tracks	
Delete selected tracks	

Figure 25: Smartview: Right click options.

Add selection to waitlist:

Selecting this option will add the selected tracks to the waitlist.

Add selection to playlist...:

Selecting this option will open up the play list box so you can add the selected tracks to a playlist.

Add selection to new playlist:

Selecting this option will bring up the new playlist name window so you can add the selection to a new playlist.

Load player 1:

Selecting this option will add the selected track to player 1.

Load player 2:

Selecting this option will add the selected track to player 2.

Load player 3:

Selecting this option will add the selected track to player 3.

Get Info:

Selecting this option will open the "Get Info" screen for the selected track or tracks.

Show track location:

Selecting this option will open up a browser window in where the track is located.

Request new autoscan on selected tracks:

This option is disabled in smart view.

Delete selected tracks:

This option is disabled in smart view.

5. Get Info:

The "Get Info" screen is used to edit your database information. To access the "Get info" screen: select a track or tracks and right click and select "Get Info".

Edit single track:

To edit a single track in the library data from within the "Get Info" screen select the field you wish to change, make the required changes and either click "Ok"

Previous:

If you need to edit the previous track within the library press the "Previous" button.

Next:

If you need to edit the next track within the library press the "Next" button.

Edit multiple tracks:

To edit a more than one track in the library data from within the "Get Info" screen put a tick in the tick box on any fields you wish to change, make the required changes and click "Ok"

Note: If you have selected multiple files to edit the "Previous" and "Next" buttons will not be visible. When you have finished editing all the tracks you need click the "Ok" button to return to the Reflex main window.

Info: Rihanna - Don't Stop the Music	
Title Don't Stop the Music	BPM 122.69 🔽 ReScan BPM ReScan grid
Artist Rihanna	Playcount Year Rating 0 2007 0
Album Good Girl Gone Bad	Gain adj Auto cue(mSec) Mood -6.69 36
Genre R&B	Track No Track total ISRC#
Version	Copyright
Grouping	Fileowner
Comments	Publisher / Label
	Read tag
Format Encoding: mp3 Size: 6.6 Bitrate: 320 Kbit Channels: 2 Location: Z:\Music\International\Club Zone\Beats\M	3 MB Samplerate: 44100 Track length: 04:27.12 ainstream\Rihanna - Don't Stop the Music.mp3
Previous Next	OK Cancel
Figure 26: Get Info scree	en with single file selected.

Info	: multiple tracks	X
	Title	BPM
	Artist	Playcount Year Rating
	Album	Gain adj Auto cue(mSec) Mood
	Genre	Track No Track total ISRC#
	Version	Copyright
	Grouping	Fileowner
	Comments	Publisher / Label
		OK Cancel

Figure 27: Get Info screen with multiple files selected.

Note: If you have the "Write database changes to tag" option enabled any changes will be written to the files tag.

6. Search Commands:

As well as string searches Reflex has certain search commands which will make finding the required audio easy, the search commands are:

Browse:

Reflex allows you to browse a tag field. To use this feature you will need to press the "smart view" button to show the smart view and then select the search box and then type "Album Browse" and in the Smart view window you will see a list of all the albums within the selected group. This feature works for any tag field and is not limited to the album field.

You can the scroll up and down the smart view list until you find the album you are looking for, when you select the album you require the tracks on that album will be displayed in the main search window.

STIP: Anything typed after "album browse" will filter down the main search window by whatever you typed after album browse. So for example if you typed "Album browse" you would see a list generated in the smart view window of all the album tags within the selected group. If you then selected the album "Revolver" all the tracks on this album would show in the main window. If you where to return

to the search box and type " yellow submarine" on the end of album browse it would filter the main results window by "yellow submarine" and display only results which match this query.

♥<u>TIP:</u> This feature can be used to replace the tab feature on some legacy PCDJ products, to do so simply ensure you have a grouping tag entered within your music files, all you need to do is type "grouping browse" and in the smart view you will see a list of any grouping tags within the selected group.

How to use browse feature:

1. Select the group you wish to apply this search command to in the group list box.

Library			
<< [] > >> 00:00.00	Smart view	Waitlist	Search:
All tracks	Bpm	Artist	Title
Logged tracks	142.41 (Orietta Berti	Ah L Amore Che Cos' E
Logged session	87.48 1	ngrid	Ah L'Amour L'Amour
Last hour	124.00 \$	Shereen Wagdy	Ah Law Gani Tani
Older than 1 hour	141.97	Nancy Ajram	Ah W. Noss
Never played	131.67 1	Tamer & Shereen	Ah Ya Leil
RC club	85.01 k	Khaled	Aicha
RC oldies	128.20 E	Bronski Beat	Ain't Necessarily So
Playlist (lounge)	79.88 E	Bobby Blue Bla	Ain't No Love In The Heart Of The
Scanned	104.30 (Chaka Khan With Rufus	Ain't Nobody
Unscanned	90.88 F	Fried	Ain't You The One (I've Been Loo
Failed scans	93.37 L	enny Mac Dowell	Ain't no sunshine
BPM 128-130	140.00 1	Nancy Ajram	Akhasmak Ah
Compilations	107.92 E	Buddha bar IV	Aktar wahed
	112.14 (Gianni Morandi	Al Bar Si Muore
	105.94 (Groupe Digital Orchestra	Alabina 🚽
	400.00 1	The Otropalara	Alowaya the aug
Auto Mix now	Numberoftrac	ks: 2461	

Figure 28: How to use browse feature step 1.

2. Click on the smart view button to bring up the smart view screen.

Library			
<<]>>>> 00:00.00	Smart view Waitlist	Search:	
All tracks	Bpm Artist	Title	
Logged tracks	142.41 Orietta Berti	Ah L Amore Che Cos' E	
Logged session	87.48 Ingrid	Ah L'Amour L'Amour	
Last hour	124.00 Shereen Wagdy	Ah Law Gani Tani	
Older than 1 hour	141.97 Nancy Ajram	Ah W. Noss	
Never played	131.67 Tamer & Shereen	Ah Ya Leil	
RC club	85.01 Khaled	Aicha	
RC oldies	120.20 Broncki Boot	Ain't Necessarily Se	
Playlist (lounge)			
Scanned	Bpm Artist	Title	•
Eniled econo			
PDM 129 120			
Compilations			
Compliations			
	<	>	
Auto Mix now	Number of tracks: 2461		_

Figure 29: How to use browse feature step 2.

3. To activate the feature type "album browse" in the search box. You will notice that a list of albums within the selected group appears in the smart view window.

Note: This feature can be used with any visible field within the software and is not limited to just the album field.

Library		
<<]>>>> 00:00.00	Smart view Waitlist	Search: album browse
All tracks	Bpm Artist	Title
Logged tracks	114.37 Miles Davis	'round Midnight
Logged session	102.69 Devo	(I Can't Get No) Satisfaction
Lasthour	124.94 Cutting Crew	(I Just) Died In Your Arms
Older than 1 hour	125.69 Tony Bennett	(I Left My Heart) In San Francisco
Never played	124.27 Junior Walker & The All Stars	(I'm a) Road runner
RC Club	83.23 Martha Reeves & The Vandellas	(Love is like a) Heat Wave
RC oldies	140.00 Arotha Eranklin	(Vou Mako Mo Ecol Liko) A Natur
Scanned		
Unscanned	album	<u>^</u>
Failed scans	Barrio Latino (Caliente)	-
BPM 128-130	Barrio Latino (Suave)	
Compilations	Bedroom Lounge	
	Black Velvet [CD 1]	
	Black Velvet [CD 2]	
	Black Velvet [CD 3]	
	Black Velvet [CD 4]	~
Auto Mix now	Number of tracks: 2461	

Figure 30: How to use browse feature step 3.

4. Select the album you wish to browse. When you have selected an album you will notice the tracks on this album will appear in the main library window.

Library		
<<]>>>> 00:00.00	Smart view Waitlist	Search: album browse
All tracks	Bpm Artist	Title
Logged session	124.85 O'jays	Back Stabbers
Clder than 1 hour	106.86 David Grant & Jacki Graham 92.97 TIC	Could It Be I'm Falling In Love
Never played	89.93 Deniece Williams	Free
RC oldies	130.90 Diana King 142.24 Plue Magie	I Say A Little Prayer
Playlist (lounge) Scanned		
Unscanned	album Barrio Latino (Caliente)	^
BPM 128-130	Barrio Latino (Suave)	
Compilations	Black Velvet [CD 1]	
	Black Velvet [CD 2] Black Velvet [CD 2]	
	Black Velvet [CD 4]	✓
Auto Mix now	Number of tracks: 2461	

Figure 31: How to use browse feature step 4.

- 5. To find a specific track on the album place your cursor on the letter "e" of album browse in the search box and press "spacebar" and then type whatever you need to search for.
- 6. In this example we have typed "love" which will search for tracks with the word "love" anywhere within the visible library fields. You will see the main library window is filtered down by whatever you have typed.

Library		
<< [] > >> 00:00.00	Smart view Waitlist	Search: album browse love
All tracks Logged tracks Logged session Last hour Older than 1 hour Never played RC club RC oldies Playlist (lounge) Scanned Unscanned Failed scans BPM 128-130 Compilations	Bpm Artist 118.05 Persuaders 106.86 David Grant & Jacki Graham 83.20 Rose Royce 93.37 The Spinners 119.47 Peabo Bryson & Roberta Flack	Title A Thin Line Between Love And H Could It Be I'm Falling In Love Love Don't Live Here Anymore Love Don't Love Nobody Tonight I Celebrate My Love
	album Barrio Latino (Caliente) Barrio Latino (Suave) Bedroom Lounge Black Velvet [CD 1] Black Velvet [CD 2] Black Velvet [CD 3] Black Velvet [CD 4]	
Auto Mix now	Number of tracks: 5	

Figure 32: How to use browse feature step 6.

Contains:

Reflex allows you to search a specific field to see if it contains the entered text, to use this function select the search box and type "artist contains " anything typed after this will be used to search the database. For example to search for a song whose artist includes the word "the" type "artist contains the". This feature works for any tag field and is not limited to the artist field. The results of this search are displayed in the main search window.

Starts:

Reflex allows you to find any field which starts with whatever you have typed. To use this feature first select the search box and type "album starts" anything typed after this will be used to search the database For example to find any album that starts with greatest you would enter in the search box "album starts greatest". This feature works for any tag field and is not limited to the album field. The results of this search are displayed in the main search window.

Ends:

Reflex allows you to find any field which ends with whatever you have typed. To use this feature first select the search box and type "album ends" anything typed after this will be used to search the database For example to find any album that ends with hits you would enter in the search box "album ends hits". This feature works for any tag field and is not limited to the album field. The results of this search are displayed in the main search window.

Numeric only commands:

The search commands listed below will only work on numeric fields.

<> (Does not equals):

Allows you to search for anything that does not equal whatever you have typed. To use this feature first select the search box and type "year <>" anything typed after this will be excluded from the results. For example typing "year <> 1981" will list all songs where the year of release does not equal 1981. The results of this search are displayed in the main search window.

< (Less Than):

Allows you to search for anything with a value less than whatever you have typed. To use this feature first select the search box and type "year <" anything typed after this will be used to search the database. For example typing "year < 1981" will list all songs where the year of release is before 1981. The results of this search are displayed in the main search window.

> (Greater Than):

Allows you to search for anything with a value greater than whatever you have typed. To use this feature first select the search box and type "year >" anything typed after this will be used to search the database. For example typing "year > 1981" will list all songs where the year of release is later than 1981. The results of this search are displayed in the main search window.

= (Equals):

Allows you to search for anything that equals whatever you have typed. To use this feature first select the search box and type "BPM =" anything typed after this will be used to search the database. For example typing "BPM = 120" will list all songs that has a BPM of 120. The results of this search are displayed in the main search window.

<= (Less than or equal to):

Allows you to search for anything that is less than or equal to whatever you have typed. To use this feature first select the search box and type "BPM <=" anything typed after this will be used to search the database. For example typing "BPM <= 120" will list all songs that has a BPM of less than or equal to 120. The results of this search are displayed in the main search window.

>= (Greater than or equal to):

Allows you to search for anything that is greater than or equal to whatever you have typed. To use this feature first select the search box and type "BPM >=" anything typed after this will be used to search the database. For example typing "BPM >= 120" will list all songs that has a BPM of or greater than 120. The results of this search are displayed in the main search window.

Range:

Allows you to search for anything within a specific range. To use this feature first select the search box and type "BPM range" anything typed after that will be used to search the database. For example type "BPM range 120 130" will find any tracks where the BPM value is between 120 and 130 BPM's. Please note you must not enter a separator within your search string. The results of this search are displayed in the main search window.

Steps: The search commands work on whatever group you have selected so to use the feature for all tracks you must select the all tracks group.

SQLLite:

Reflex uses an open source database language called SQLLite. SQLLite is the most widely deployed SQL database engine in the world as a result is very stable, you can learn about writing queries in this language by going to the following web site http://www.sqlite.org

Note: It is recommended before you test any of your own queries within the software that you make a backup of the Reflex Library.gll file which by default is located in the my music folder of your windows user profile.

7. Default groups, Playlists and Smart Playlists

Reflex allows you to group your music in playlists and smart playlists which are located in left list box

7.1. Default groups:

By default Reflex will create several groups, some are playlists whilst others are smart playlists. These are created to give you an idea of what can be done with playlists and smart playlists.

Stress work. To look at the query behind a smartlist right click over a smart playlist and select "Edit smart playlist..."

The default groups created by Reflex are as follows:

All Tracks:

This list will show every track in the database. This group is read only cannot be deleted or edited.

Logged Tracks:

This smart playlist displays all tracks you have played uninterrupted for more than 1 minute The "Logged tracks" list will save 100 separate playtime entries for each individual track, it then starts to drop the oldest, and this way you never have to clean/purge the database. This smart playlist can be deleted but is read only and cannot be edited.

Logged session:

This smart playlist displays all tracks you have played uninterrupted for more than 1 minute during the current session. This playlist can be deleted but is read only and cannot be edited.

Last hour:

This smart playlist shows what has been played in the last hour, and is sorted in the latest played first, it can be used to avoid playing a track to soon again. If you have this list in focus while playing you will see the currently playing track will be added when 1 minute has playing time has elapsed. This smart playlist can be edited and can be deleted.

Older than 1 hour:

This smart playlist shows tracks that have been played but not within the last hour. This smart playlist can be edited and can be deleted.

Never played:

This smart playlist details any tracks that have never been played. This smart playlist can be edited and can be deleted.

Playlist:

This is an example of static playlist. To add new tracks to the playlist select the tracks you wish to add and right click and select "Add to playlist" a drop down box will appear which contains all the static playlists select the playlist you wish to add the songs to and click ok. This playlist can be edited and can be deleted.

Scanned:

This is a smart playlist that will detail all tracks that have been through the scanner. This smart playlist is updated once a minute. This smart playlist can be edited and can be deleted.

Unscanned:

This is a smart playlist that will detail all tracks that have not been through the scanner. This smart playlist is updated once a minute and can be edited and can be deleted.

Failed scans:

This is a smart playlist that will detail all tracks that have not been through the scanner because there was an error while trying to scan the file. It can be files that are zero length, greater than 20 Minutes, or a file that failed to open. This smart playlist is updated once a minute and can be edited and can be deleted

7.2. Playlists:

Reflex allows you to group music together in what is called a playlist. A playlist is a static list and can contain tracks from any group within Reflex. Playlists are stored in the group list box, to create a playlist:

- Select "File" and then select, "New playlist" enter a suitable name and click ok. This will create a blank playlist named whatever name you chose previously. The shortcut for this feature is "Alt+P". You also have access to this option by right clicking in the group list box.
- Select the tracks you need to add to the playlist and select "File" and then select, "New playlist from selection", enter a suitable name and click ok. This will create playlist with the selected tracks named whatever name you chose previously. The shortcut for this feature is "Shift+Alt+P". You also have access to this feature by right clicking in the library main window and selecting "Add selection to new playlist".

Adding tracks to an existing playlist:

You can add tracks to a playlist from the library main section, waitlist and smart view. To add tracks to an existing playlist select the tracks you wish to add to the playlist and right click anywhere within the library main window and select "Add selection to playlist" you will be presented with a list of the playlists currently within Reflex. Select the playlist you wish to add the songs to and click "Ok".

7.3. Smart Playlists:

Smart playlists are an advanced way to group together a collection of music by specific search terms. Smart lists are powered by one or multiple queries. To create a smart list right click in the playlist list group box and select "New smart list..." you will be asked to enter a name and when you click OK you will be taken into the smart list query builder.

The possible options available with smart lists are only limited by your imagination and going through all the permutations of queries is outside the scope of this manual.

Possibly the most common use for smart lists will be a path query. This is a replacement for traditional path monitoring functions. To create such a smart list you need to set the smartlist to show all tracks with path starting or equal to and you will see added tracks that are in that path. After when you add more tracks to your hard drive you just drag and drop you base directory again on the record case and that will add only the new tracks skipping the already added ones.

How to create a smart playlist:

Due to the complex nature of smart playlists detail below is a walk through guide on how to create a smart playlist. To create a smart playlist:



1. Right click anywhere on the playlists area and select "New smart playlist..."

Figure 33: Creating a new smart playlist step 1.

2. A dialog box appears asking you the name of the new smart playlist. Type a name and click "OK" The following screen should appear:

Smart playlist:BPM 128 - 130					
Rule Field Condition Key is in the range	; 🗸	Value		to	Add as OR Add as AND
Sort order Sort field					
Ascending 🖌 Key	*				
Added rules					Clear all rules
					<u>^</u>
					<u>×</u>
Test results (limited to the first 100 hits)					Test rules
			0	ĸ	Cancel

Figure 34: Creating a new smart playlist step 2.

3. From the "Field" drop down menu select the field you want your query to be applied to. We will use BPM as an example. Select "BPM".

Sm	art playlist:BPM '	12	B-130			X
	Rule					
	Field		Condition	Value		Add as OR
	Bpm	*	is in the range 🛛 🔽		to	
	Key	^				Add as AND
	Artist					
S	BitRate		Sort field			
F.	Bpm Chappels		Key 🔽			
	Comment					Clear all rules
ŕ	Added					
	Moairiea Encoder					
	Format					
	Grouping					
	Version					
	ID3Tag					
	LastPlayed					~
	Title					
Te	PathOnly		rst 100 hits)			Test rules
	PlayCount					
	Rating					
	ReplayGain SampleRate					
	PlayLength	_				
	TrackNumber TrackTotal					
	Year					
	AutoCue	~				
	Copyright		I		OK	Capcel

Figure 35: Creating a new smart playlist step 3.

4. The Condition drop down menu controls what the expression of the query should be. In our example we want to build a Smart Playlist with all songs having BPM value from 128 to 130. So, in the condition drop down menu we select "is in the range"

Smart playlist:BPM 128	3-130			×
Rule Field Bpm 💌 Sort order S Ascending V	Condition is in the range is not in the range is greater is less is is not	Value	to	Add as OR Add as AND
Test results (limited to the fi	rst 100 hits)			Test rules
			ОК	Cancel

Figure 36: Creating a new smart playlist step 4.

5. Now we type our values in the two the boxes next to the condition drop down menu. The top box is the start value to the lower box is the end value.

Smart playlist:BPM 128-130		
Rule Field Condition Bpm V is in the range V	Value 128 to 130	Add as OR Add as AND
Sort order Sort field Ascending		
Added rules		
Test results (limited to the first 100 hits)		Test rules
	OK	Cancel

Figure 37: Creating a new smart playlist step 5.

- 6. Now we must click on one of the two buttons named "Add as OR" or "Add as AND". Since we are not going to use multiple queries in our example it doesn't matter which one we should click.
- 7. Click on the "Add as AND" button.
- 8. You will see that on the "Added rules" textbox our rule has been added! We can also define by which field we want our smart playlist to be sorted by default! Let's change that so it sorts by BPM.

Smart playlist:BPM 128 - 130	×
Rule Condition Value Field ✓ is in the range ✓ Bpm ✓ 128 130	to Add as OR Add as AND
Sort order Sort field Ascending Added rules	Clear all rules
(Bpm>=128 and Bpm<=130)	
Test results (limited to the first 100 hits)	Test rules
	OK Cancel

Figure 38: Creating a new smart playlist step 8.

9. Now we are ready to test the query. Click on the "Test rules" button to see a preview of what would be in our smart playlist.

Smart playlist:BPM 12	28 - 130			
Rule Field Bpm	Condition is in the range	Value 128 130	to	Add as OR Add as AND
Sort order	Sort field			
Ascending 🗸 🗸	Bpm	~		
Added rules				Clear all rules
(Bpm>=128 and Bpm<=	130) first 100 hits)			Test rules
Кеу	Album	Artist	BitRate	Bpm 📥
1560 2418 2545 2564 2575	Venue Six House Experience 8 DeeJay Set 2	Loving Paris Anarcrusan D-Fuse Dave Armstrong De javu		128.0 128.0 128.0 128.0 128.0 128.0
2664	Venue IV	Fantastic Plastic Ma		128.0 💌
<				>
			ОК	Cancel

Note: The test function only displays a maximum of 100 results.

Figure 39: Creating a new smart playlist step 9.

10. Finally click on the OK button to return to the main Reflex window. Your smart list is now created and you should see it in the group list box.

Library					
<< [] > >> 00:0	0.00	Smart view Waitlist	Search:		
Logged session	^	Bpm Artist	Title	~	
Last hour		128.00 Anarcrusan	In my mind		
Older than 1 hour		128.00 D-Fuse	Everything with you		
Never played		128.00 Dave Armstrong	Make your move		
RC club		128.00 De javu	I can't stop		
RC oldies		128.00 Fantastic Plastic Machine	Love Is Psychedelic		
Playlist (lounge)	=	128.00 Fused	Saving Mary		
Scanned		128.00 Ghetto Child	The Rebirth of Balearic beats		
Unscanned		128.00 Godmind	Give me the night		
Failed scans		128.00 Kentish Man	Easy lover	~	
BPM 128-130	~			>	
Auto Mix now Number of tracks: 412					

Figure 40: Creating a new smart playlist step 10.

How to edit a smart playlist:

Smart playlists can contain multiple queries, in this example we will show you how to edit a smart playlist to add in another query.

On our previous example we created a smart playlist containing all tracks which have BPM between 128 and 130. Let's say that we want to narrow down this list to show only tracks from year 2006 and after. To do this:

1. Right click on the smart playlist you want to edit and select "Edit smart playlist..."



Figure 41: Editing a smart playlist step 1.

2. The edit smart playlist window appears. It should show our previously created rule.

Now select "Year" from the Field, drop down menu, and "is greater" in the condition menu, and type "2006" in the box next to the condition drop down menu.

Smart playlist:BP	PM 128	8-130				
~Rule						
Field		Condition		Value	_	Add as OR
Key	~	is in the range	~		 to	
Key	^				7	
Artist					_	
SeBitRate		Sort field				
		Кеу	*			
AComment						Clear all rules
Modified						~
(Encoder		30)				
Grouping						
Genre	=					
Version ID3Tag	_					
Kind						~
LastPlayed						
TePathOnly		rst 100 bits)				Test rules
Filename		,				
Rating						
ReplayGain						
PlayLength						
TrackNumber						
Year						
AutoCue						
Copyright					v)	Capcal

Figure 42: Editing a smart playlist step 2.

Smart playlist:BPM 128	3-130			
Rule Field Year V Sort order Ascending V	Condition is in the range is in the range is not in the range is greater S is less is less is not	Value	to	Add as OR Add as AND
(Bpm>=128 and Bpm<=13	30)			~
Test results (limited to the fi	irst 100 hits)			Test rules
			ОК	Cancel

Figure 43: Editing a smart playlist step 2.

Smart playlist:BPM 128-130	
Rule Condition Value Year is greater 2006	Add as OR Add as AND
Sort order Sort field	
Added rules	Clear all rules
(Bpm>=128 and Bpm<=130)	
Test results (limited to the first 100 hits)	Test rules
	OK Cancel

Figure 44: Editing a smart playlist step 2.

- 3. We must click on the "Add as AND" button. If we click on the "Add as OR" button we will get as a result (BPM 128-130 OR Year >2006) which means ALL tracks from years 2006 until today and all tracks with BPM 128-130 from any other year!
- 4. Click on the "Add as AND" button.

5. Click on the "Test rules" button.

Smart playlist:BPM 1	28-130			
Rule Field Year	Condition is greater	Value 2006	to	Add as OR Add as AND
Sort order	Sort field			
Ascending 🛛 👻	Bpm	~		
Added rules				Clear all rules
Year>2006 and (Bpm>=128 and Bpm<=	:130)			
Test results (limited to the	e first 100 hits)			Test rules
Кеу	Album	Artist	BitRate	Bpm 🔼
1536 1550 1565 1440	Absolute Dance - M Absolute Dance - M	David Guetta Fedde Le Grand Janet Alibi Vs. Rockefeller		128.0 128.0 128.0 128.0:
1484 1499		Milk and Sugar Seamus Haji		128.0: 128.0: ⊻
				>
			ОК	Cancel

Figure 45: Editing a smart playlist step 5.

6. Our edited smart playlist is now ready! Click on the "OK" button to save it and return to the Reflex main program...

Library					
<< [] > >> 00:0	0.00	Smart view Waitlist	Search:		
Logged session	^	Bpm Artist	Title	^	
Last hour		128.00 David Guetta	Love is gone		
Older than 1 hour		128.00 Fedde Le Grand	Take No Shhh	=	
Never played		128.00 Janet	Lesbian	-	
RC club		128.01 Alibi Vs. Rockefeller	Sexual Healing		
RC oldies		128.01 Milk and Sugar	Higher and higher (2007 Mix)		
Playlist (lounge)	=	128.01 Seamus Haji	Last Night A Dj Saved My Life		
Scanned		128.01 Seamus Haji	Last Night A Dj Saved My Life		
Unscanned		128.02 Bacardi	Mojito (2007 RMX)		
Failed scans		128.05 Ralph Rosario	Brinca 2007 (Danny Woo Mix)	~	
BPM 128-130	~	<		>	
Auto Mix now Number of tracks: 18					

Figure 46: Editing a smart playlist step 6.

As you can see our edited playlist has now been updated and it has 18 tracks instead of the 412 it had before.

How to simulate tabbed browsing

Reflex provides you an easy way to simulate legacy tabbed browsing by using the Smart view option. To do so:

- 1. Select a list from the library that you wish to "divide" in tabs.
- 2. Select a few tracks and right click on them to bring up the "Get Info" dialog.



3. Once the "Get Info" dialog appears tick the checkbox next to "Grouping" text field, and type the name of your new tab on the box.

Info: multiple tracks	
Title	врм
Artist	Playcount Year Rating
Album	Gain adj Auto cue(mSec) Mood
Genre	Track No Track total ISRC#
Version	Copyright
Grouping Tab One	Fileowner
Comments	Publisher / Label
	OK Cancel

Figure 48: Simulate tabbed browsing step 3.

- 4. Click on OK button to save the changes.
- 5. Repeat the steps 1 to 5 until you have assigned the tracks you want on your virtual tabs.

6. Once you have finished, click on the Smart view button to enable it, and type "grouping browse" on the search box.

Library			
<<]>>>> 00:00.00	Smart view Waitlist	Search: grouping browse	
All tracks Logged tracks Logged session Last hour Older than 1 hour Never played RC club RC oldies Playlist (lounge) Scanned Unscanned Failed scans BPM 128-130 Compilations	Bpm Artist 128.52 90's Dance 128.05 Army of Lovers 129.92 DJ Bobo 128.81 Dr Alban 128.81 Dr. Alban 128.22 Hoxton Whores VS Felix 128.62 Jay Doc grouping Another Tab Last Tab Tab One Tab Two	Title Magic Carpet Ride Sexual Revolution What A Feeling It's My Life It's my life Don't U Want Me Plastic Drooms	
Auto Mix now	Number of tracks: 495		

Figure 49: Simulate tabbed browsing step 6.

7. Your new virtual tabs are now ready! Clicking on each of them will show you its contents on the upper window of the library!

Note: You can use this technique on both Static and Smart playlists.

Chapter IX: Player Functions

This section we will first cover the basics of loading, cueing and playing a track and then go onto the players other functions.

Player Basics:

Loading a track:

With a track selected in the library to load the track to the players you can:

- Click the "Load" button on the player.
- Drag and drop this to a player
- Right clicking on a selection and selecting load player 1, 2 or 3
- With the num lock key enabled number keys 1, 2 or 3 will load to the corresponding player

Playing a track:

To play a track either, press the "Play" button on the player or use the shortcut key: Player 1 = F2, Player 2 = F6, Player 3 = F10

Cueing a track:

To cue a track to the first beat either; press the "Cue" button on the player or use the shortcut key:

Player 1 = F1, Player 2 = F5, Player 3 = F9

Setting one of the unlimited cue points within Reflex will be covered shortly within the manual.

Player functions:

Reflex has many player functions which we will detail in this section:





1. Cues:

Reflex supports unlimited cue points for each track, by default Reflex has 6 Cues setup for each track, initially these cues are set at the auto cue position at the beginning of a track or if no auto cue has been set then at the absolute start of the track.

Storing a cue:

To store a cue point within Reflex:

- i) Navigate around the song to the point that you wish to set as the cue point. This can either be done whilst playing in real time or without the song playing using the mouse to navigate around the song.
- ii) In the cue point browser window right click on the cue pint you wish to save your cue point to. This will select the cue without activating it.
- iii) Press "Shift" and then the "Cue" button on the GUI. This will store the cue point to the nearest grid location

Renaming a cue:

To rename a cue point within Reflex:

- i) In the cue point browser window right click on the cue point you wish to rename. This will select the cue without activating it.
- ii) Select "Rename cue".
- iii) Type the new name for the cue.
- iv) Click "ok".

Clearing a cue:

To clear a cue point within Reflex:

- i) In the cue point browser window right click on the cue point you wish to clear.
- ii) Select "Clear cue".
- iii) In the confirmation dialog box click "Ok".
- iv) This will return the cue point to the auto cue point if one is set or otherwise to the absolute start of the track.

Deleting a cue:

To delete a cue point within Reflex:

- i) In the cue point browser window right click on the cue point you wish to delete.
- ii) Select "Delete cue".
- iii) In the confirmation dialog box click "Ok".
- iv) This will delete the cue point.

Creating a new cue:

To create a new cue point within Reflex:

- i) In the cue point browser window right click.
- ii) Select "Add new cue"
- iii) This will create a new cue point named "new cue"
- iv) In the cue point browser window right click on the cue point named "New cue". This will select the cue without activating it.
- v) Select "Rename cue".
- vi) Type the new name for the cue.
- vii) Click "ok".

Re ordering cues:

To re order a cue within Reflex:

- i) Using the left mouse button select the cue you wish to re order.
- ii) Drag this cue point to the new location in the list.
- iii) Release the mouse button to leave the cue point in the new location.

Note: This will activate the cue you are trying to re order.

2. Load:

To load a track to one of the players select a track from anywhere within the library and press the "Load" button on the GUI.

Stip: To remove a track from one of the players press "Ctrl" and then press "Load" on the GUI. The track will be removed from the player.

3. Track details:

The artist and title of the track loaded to the player are detailed.

4. Quantize and Lock:

Quantize is a feature that will ensure your playback is synchronised. Quantize locks all commands to the detected beat grid, this means that triggering cannot be faster than 1/2 a beat.

With quantize even if you have the cue point wrong (i.e. not on a downbeat) and/or hit you the "Play" button early or late it will correct and make it trigger correctly on the down beat of the playing player.

The quantize function that works in 3 ways:

i) If "Quantize" is on and "Lock" are deactivated:

Reflex will match the triggering to another player that is playing,

The way quantize will look at the players for control signals is as follows:

Player 1 first looks at player 2, and if it is playing it uses player 2 as reference, else it uses player 3. Player 2 first looks at player 1, and if it is playing it uses player 1 as reference, else it uses player 3. Player 3 first looks at player 1, and if it is playing it uses player 1 as reference, else it uses player 2.

ii) If "Quantize" and "Lock" are activated:

Reflex will sync all 3 players and they are controlled by the master section BPM slider value.

Master section: The Reflex master section is a clock unit that sends out clock sync pulses to all players that have "Lock" and "Quantize" activated. The master section clock continually sends out control signals which are adjusting the players so they follow that clock. This feature allows you to be able sync all 3 players perfectly and do really cool mixes.

If you change the master BPM the players will follow.

When a player is synced and its beat location is less than 5% from the master beat location the "Match" button of the corresponding player in the master section illuminates.

This indicator can come on and off during play and its ok, because both tracks and the detected grid can drift slightly as Reflex constantly adjusts. Any drifting of the synchronisation will not be audible.

Note: The max tempo change that is allowed is 1.5% so this feature may not perform well for example on a live recorded track that changes tempo too much. The master section will make subtle adjustments and Reflex will not over correct and could be noticeable on tracks with high tempo fluctuation.

Once a player that is playing is locked to master section the same functionality applies when it comes to triggering when hitting "Play", except that Reflex will quantize to the master section instead of another player.

On some tracks it is possible that the beat grid will lock with a little offset from the actual beat position, or for effects, and the "Pitch" slider on a player changes to "Phase" when in master sync mode. The phase simply shifts the location of the detected grid so you can change that +-0.8 beats from detected beat phase location.

Note: Most of the time this phase will be at its 0.0 position.

iii) If only "Lock" is activated:

When only "Lock" is activated on a player Reflex will always set its BPM to the BPM that master section is set to, but no clock signals will be sent to the player so it is essentially a manual mode for locking the BPM.

Steps: If you want to match the master section to a player you simply click on the corresponding match button in the master section.

5. Vinyl and Abs:

Vinyl:

Pressing the "Vinyl" button activates time code control and will hide the "Cue" and "Play" buttons from the GUI because the tracks playback will be controlled via a time coded input. When the "Vinyl" button is activated the player does not return to the cue position when the time coded media has reached the end of playback.

<u>Abs:</u>

Pressing the "Abs" button on the GUI activates time coded control mode and position control codes are recognized and followed by Reflex so if you move the pickup the track will follow.

If you have the "Abs" button activated you can use the last track on the vinyl to select tracks. When you return the pick up to the beginning of the vinyl it will load the selected track.

Note: If no time coded media is configured in the preferences pressing the "Vinyl" button will only hide the "Cue" and "Play" buttons and pressing the "Abs" button will not do anything.

6. Loop and RL/Out:

Clicking on the "Loop" button will create an instant 4 beat loop. The "RL/Out" button exits a loop if the player is looping, or re-enters the last activated loop if the player is not looping.

STIP: Reflex has a feature called loop wait mode. This feature allows you to store individual loops on each cue point. For example if you have a cue point set on "Cue 2" which could be part way through the track, when playback gets to this point the software will automatically go into loop mode and play the loop. In order to activate loop wait start playback of the track as normal and then select the cuepoint that holds your stored loop. Once playback reaches the loop point it will start looping.

by **<u>TIP</u>**: You can select a cue-point without activating it by performing a right click on the cue-point.

7. Bend – and Bend +:

The "Bend –", and "Bend +", buttons will alter temporarily the Pitch/Tempo of the track. "Bend –", will slow down the playing track whilst being pressed and the "Bend +", will speed it up whilst being pressed. If the player is not playing these buttons will silently seek the track in small steps (fine-tune) and adjust the current cue-point location.

8. Pitch Slider:

To adjust the pitch of a track loaded in a player slide the pitch slider up or down. By default the GUI allows a +/- 8% adjustment to the pitch of the track. To reset the pitch to the centre position, right click over the pitch slider.

9. Tempo and Key sliders:

Reflex also has tempo and key adjustment. To adjust the tempo or key of a track loaded in a player slide either the tempo or key slider up or down. By default the GUI allows a +/- 8% adjustment to the tempo of the track and +/- 24 semitones adjustment on the key of the track. To reset either the tempo or key to the centre position, right click over the slider.

10. Stretch Button:

To activate the time stretch feature within the software press the "Stretch" button within the GUI. Time stretch is covered in detail later in the manual

11. Cue and Play Buttons:

<u>Cue:</u>

To Cue a track that is loaded in the player press the "Cue" button, this will return the track to either the auto cue position or if one isn't set the absolute beginning of the track. Holding down the "Cue" button will play the track while the button is pressed.

<u>Play:</u>

Pressing down the "Play" button will play the track from its current position. Pressing the "Cue" button again will pause the track, when the track is paused the "Play" button on the GUI will flash.

12. Match tempo Buttons:

Each player has two match tempo buttons so you can match it's tempo to that of another player.

Player 1 has match to "Player 2" and "Player 3". Player 2 has match to "Player 1" and "Player 3" Player 3 has match to "Player 1" and "Player 2"

13. Elapsed Time:

The elapsed time of the currently loaded track is detailed here. Reflex details minute's seconds and milliseconds to 2 decimal places.

14. BPM:

The BPM of the currently loaded track is detailed here. Reflex details the BPM to 2 decimal places.

15. Remaining Time:

The remaining time of the currently loaded track is detailed here. Reflex details minute's seconds and milliseconds to 2 decimal places.

16. Overview wavetable:

In this section you will see a graphical representation of the whole track. This image is fully interactive and you can select a point in the wavetable and playback will shift to this point.

17. Detail wavetable:

This section is fully interactive and allows you to select different parts of the track as well as grabbing the wavetable and either pausing playback or visually searching around the track.

18. Effects:

Reflex has four effects and they are as follows:

i. <u>Power on/off:</u>

This effect emulates powering On/Off an analogue turntable. If a track is playing pressing the button will progressively slow the speed of the track until it stops completely. From that point on the track will remain paused and silent. Pressing the play button would resume playback from the current position. If a track is not playing pressing the button will progressively increase the speed of the track until it reaches normal playback speed.

ii. <u>Dump:</u>

Whilst pressed will reverse the playback of the track. This is a very handy feature for hiding profanities.

iii. <u>Step +1 beat:</u>

When pressed the track will step forward +1 beat. This is handy for nudging the track when trying to align 2 songs.

iv. <u>Step -1 beat:</u>

When pressed the track will step backward -1 beat. This is handy for nudging the track when trying to align 2 songs.

19. Plug-ins:

Each player can support two VST plug-ins and each plug-in has the same options.

Activate:

To activate an effect select the drop down menu and select the VST effect you require.

Effects	Plugins	Filter		Vu
Power On/Off	SaffireComp			
Dump	Edit Bypass			
Step +1 beat	SaffireEQ			
Step -1 beat	Edit Bypass	Low Sh	ielf	
Effects	Plugins	Filter		Vu
Power On/Off	SaffireComp			
Dump	Edit Bypass		-	
Step +1 beat	None			
Step -1 beat	SaffireCompMo FilterVST	no	d	
Effects	BigSeq			Vu
Power On/Off	debaser			
Dump	SaffireEO			
Step +1 best	SaffireAmpSim		•	
- Otep + Toeat	SaffireComp			
Step -1 best	SaffireEQMono	P	855	

Figure 51: VST Selection menu (VST Plug-ins shown for demo purposes only).

Edit:

To edit the effect click on the "Edit" button, the effect GUI will open in a separate window and you can change whatever parameters you need within this window.



Figure 52: VST Edit option (VST Plug-in shown for demo purposes only).

Bypass:

To bypass the effect click on the "Bypass" button, when pressed the effect will no longer be activated.

Effects	Plugins	Filter	Vu
Power On/Off	SaffireComp		
Dump	Edit Bypass		
Step +1 beat	SaffireEQ	•	
Step -1 beat	Edit Bypass	LowShelf	
Effects	Plugins	Filter	Vu
Power On/Off	SaffireComp		
Dump	Edit Bypass		
Step +1 beat	SaffireEQ		
Step -1 beat	Edit Bypass	Eq band	
Effects	Plugins	Filter	Vu
Power On/Off	SaffireComp		
Dump	Edit Bypass		
Step +1 beat	SaffireEQ		
Step -1 beat	Edit Bypass	Band pass	

Figure 53: VST Bypass option activated.

20. Filter:

Reflex has 6 filters available, Low Shelf, High Shelf, Low Pass, High Pass, EQ Band and Band Pass.

Effects	Plugins	Filter	Vu
Power On/Off Dump Step +1 beat Step -1 beat	SaffireComp Edit (Bypass) SaffireEQ Edit (Bypass)	Low Shelf	
Effects	Plugins	Filter	Vu
Power On/Off Dump Step +1 beat	SaffireComp Edit Bypass SaffireEQ Edit Bypass	•	li
Step -1 beat		🗸 None	
Effects	Plugins	Low Shelf	Vu
Power On/Off Dump Step +1 beat	SaffireComp Edit Bypass SaffireEQ	Low Pass High Pass Eq band Band pass	ļ
Step -1 beat	Edit (Bypass)	Band pass	

Figure 54: Filter menu options

21. VU Meter:

Each player features a three color VU meter which gives a visual representation of how loud the audio is for that player.
Chapter X: Mixer Section

Reflex has a comprehensive mixer section and we will go through the features in this section:

All faders indicate the present value of the fader within the button to adjust its value.

Stepsilon Stepsi

by TIP: To fine adjust a fader hold down shift whilst sliding the fader, this allows high resolution adjustment of all faders.

Note: The following faders have a confirmation dialogue box before you can reset their values, "Main", "Booth", "Aux1" and "Aux2".



Figure 55: Mixer section.

1. Player faders:

Reflex has four software faders which are controlled by using the button on the VU meter. Players 1-3 and the case player all have a VU meter. To adjust the volume of a slider, slide the button up or down the VU meter.

2. Cue button:

Each player fader features a cue button. If you are using the software mixer and have one of your outputs configured so it is for cueing pressing this button will allow you to audition the corresponding player.

3. Cross fader assign:

Each player fader features a/b cross fader assign buttons. Pressing "A" will assign that player to the "A" (Left) side of the cross fader. Pressing "B" will assign that player to the "B" (Right) side of the cross fader. This setting toggles and only "A" or "B" can be selected.

4. Headphone volume:

The mixer section also contains a headphone volume slider. If you are using the software mixer and have one of your outputs configured so it is for cueing this slider will adjust the playback volume of your headphones.

5. PGM mix:

This slider is used for selecting if you will monitor the program or the cue output. If the slider is hard left you will hear whatever players have the "Cue" button activated. If the fader is hard right you will hear the main output of Reflex.

th If the fader is at any point in between hard left or hard right you will hear a mix of both weighted in the same way as your positioning.

6. Cross fader:

This slider is the same as the conventional cross fader on your physical mixer and is used to control the mix balance of whatever players are set to cross fader "A" (Left) and cross fader "B" (Right).

 $\stackrel{\text{t}}{\Rightarrow}$ If the slider is hard left the main output will be whatever players have the "cross fader assign A" buttons activated.

 $\stackrel{\text{\tiny the}}{\Rightarrow}$ If the slider is hard right the main output will be whatever players have the "cross fader assign B" buttons activated.

^t If the cross fader is at any point in between hard left or hard right the main output will be weighted in the same way as your positioning.

7. Narrow VS Wide slider:

This slider controls the response curve of the cross mix. If the button is set to narrow its very close to the ends, if it is set to wide it is more towards the middle.

8. Master Volume Control sliders:

These sliders control the master sound output of Reflex if you have configured them in Audio Preferences setup.

ATTENTION: All the functions of the internal mixer will function **only** if you are using the internal mixer of Reflex.

Chapter XI: Time Code

Reflex allows you to control it using either vinyl or CD time coded media; information on this feature is detailed below:

Reflex Vinyl input		×
Player 1 Ref level> 1.00	Input player 1,2 and 3 Channel 1-2 Stereo	Vinyl type Reflex Vinyl
On Abs Fwd only	Gain Balance	Threshold 1 -67.4 db Detect
Ref level> 1.00	Not Connected Pre amp Gain	Detect Threshold 3 -80.0 db Detect
On Abs Fwd only Player 3 Ref level> 1.00	Balance	Detect Vinyl start 0.00 min
	Gain Pre amp	Vinyl speed 33 33.3 rpm

Figure 56: Time coded input configuration.

Audio Inputs:

For time code control to work you must have an ASIO or Serato SL audio soundcard. Direct-X is not supported because the latency is too high.

To change the time coded input settings select the "Edit" menu or use shortcut "Alt+V". Reflex checks if the connected soundcard has any audio inputs, if none are found it will not open and it will show an error message. Once you have selected a soundcard with inputs you get the dialog as above in Fig 53.

billing TIP: To get a good scratch response, the buffer size should be less than 256 samples.

Assigning turntables/CD players:

You can assign a player's control to any input.

Stip: If you only have one turn table you can assign all the players to the same input and turn them on/off with the vinyl button in the GUI.

Stip: The Pre amp check box must be checked if you use your soundcard's line in and have connected a phono level input directly to it.

Calibrating:

When you setup a turntable you must detect the threshold for the vinyl. To do so:

- Place the needle on the vinyl record, when its stopped.
- Click "Detect" and Reflex will pick the detected db value threshold, this should be somewhere between -70 to -55
- If it's high, check your cables and grounding.
- Start your turntable and let it spin on 33 RPM.

- The level of the input when the record is spinning normal speed (33RPM) should be up to the "Reference level" marker on the vu meter (which is about 70% of the way up the VU meter).
- Adjust your levels and balance so both channels reach optimal levels on all inputs.

ATTENTION: Vinyl control will not work well with too much noise on the input.

Options

Vinyl type:

You select what vinyl you are going to use from the "Vinyl type!" drop down menu.

Vinyl start:

With this slider you can change the start offset where the track will start. This is useful when vinyl gets worn and you can move away from the troubled area.

Vinyl speed:

The vinyl speed slider is what will be the 1.0 speed. It defaults to 33rpm, but it can be changed to for instance 45RPM if you prefer that as a normal speed instead. This works with all types of vinyl.

<u>Abs:</u>

The "Abs" check box controls if the needle position should be used to control where in the track you are playing so moving the needle will also move the track position, just like when playing conventional vinyl.

Note: Abs works on all formats <u>except</u> Final Scratch.

Stip: You should turn on the "Abs" button if your position drifts when you scratch.

Forward Only:

The fwd only option mutes audio when you are moving the vinyl in reverse.

Monitoring:

When everything is configured and working you can hide the settings part of the above window by clicking on the "<<" button. This will make the window smaller and it will only show the vu meters, so when you are working if any cables or pick up stops sending audio you will be able to see it and fix it.

Start Reflex! When you exit, all settings are saved so you do not need to repeat these steps again next time you start Reflex!

Chapter XII: External Controllers

Reflex can be controlled by various controllers such as DENON DN-HC4500/DN-S1200, DN-HS5500/DN-HD2500, PCDJ DAC 3, PCDJ DAC2/DMC1 and XP10.

For more info about how to setup and use one of these controllers please visit <u>www.pcdj.com/support/manuals</u> to download their manual.

APENDIX I: Keyboard Shortcuts

Reflex uses multi key combination shortcuts for various functions. Some of these shortcuts may require up to 3 keyboard buttons to be pressed!

RECORDCASE			
<u>KEY 1</u>	<u>KEY 2</u>	KEY 3	FUNCTION
Escape			clear recordcase search text
Insert			add selected track(s) to waitlist
Delete			removed selected track(s) from waitlist
Tab			step focus between recordcase search and list windows
Shift	Tab		step focus between recordcase search and list windows in
			reverse
UP			step focused list up
DOWN			step focused list down
Numeric Pad 7			smart toggle list on/off
Numeric Pad 8			show/hide waitlist
Numeric Pad 9			focus search
CTRL	Numeric Pad 4		focus tracklist
CTRL	Numeric Pad 5		focus waitlist or smartlist (whichever is currently visible)
CTRL	UP		step playlist selection up
CTRL	DOWN		step playlist selection down
CTRL	Μ		toggle autoplay on/off
CTRL	Space		mix now
		CA	SE PLAYER
Numeric Pad *			fast fwd
Numeric Pad +			Play. If it's already playing it will stop and start a new play
			on current selection in recordcase
Numeric Pad -			stop
Numeric Pad /			fast rew
		MAS	TER SECTION
CTRL	Shift	comma (,)	match master to player 1
CTRL	Shift	period (.)	match master to player 2
CTRL	Shift	slash (/)	match master to player 3
		I	PLAYER 1
ALT	CTRL	F3	step -1 active cue (no jump)
ALT	CTRL	F4	step +1 active cue (no jump)
F1			cue. If it's not playing it does cue play while down
CTRL	Shift	F1	jump to autocue
F2			play/pause (toggles)
CTRL	Shift	F2	beat synced play start
F3			bend - 2%, stutter edit if paused, moves cue if cued
F4			bend + 2%, stutter edit if paused, moves cue if cued
Shift	F1		punch in cue
Shift	F2		play retrig, continue play if cueplay started
Shift	F3		fast fwd
Shift	F4		fast rew
CTRL	F3		beat step -1
CTRL	F4		beat step +1
CTRL	Shift	F3	beat step -16

CTRL	Shift	F4	beat step +16
CTRL	1		hot key 1
CTRL	Shift	1	save to hot key 1
CTRL	2		hot key 2
CTRL	Shift	2	save to hot key 2
CTRL	3	_	hot key 3
CTRI	Shift	3	save to hot key 3
CTRI	4)	hot key 4
	Shift	Δ	save to bot key 4
	0		4 heat loop
	W		loon evit reloon
	Shift	0	sten nitchshift -0.1 semitones
	Shift	Q W	step pitchshift +0.1 semitones
	Shift	F	move loop back
	Shift	D	move loop back
		n	
	E P		evened loop
	R		
	A	•	match to player 2
	Shift	А	match to player 3
	S		quantize grid (toggle on/off)
	D		lock to master sync (toggle on/off)
CTRL	Shift	S	timestretch (toggle on/off)
CTRL	Shift	D	timestretch HQ (toggle on/off)
CTRL	Z		step pitch -0.5%
CTRL	Х		step pitch +0.5%
CTRL	Shift	Z	step pitch -0.1%
CTRL	Shift	Х	step pitch +0.1%
CTRL	comma (,)		reset pitch
CTRL	semicolon(;)		timecode on/off
Numeric Pad 1			load track
CTRL	Numeric Pad 1		unload track
		F	PLAYER 2
ALT	CTRL	F7	step -1 active cue (no jump)
ALT	CTRL	F8	step +1 active cue (no jump)
F5			cue. If it's not playing it does cue play while down
CTRL	Shift	E5	iump to autocue
F6			play/pause (toggles)
CTRI	Shift	F6	heat synced play start
F7			hend - 2% stutter edit if naused moves cue if cued
F8			hend + 2% stutter edit if paused, moves cue if cued
Shift	F5		nunch in cue
Shift	FG		play retrig continue play if cueplay started
Shift	F7		fast fixed
Shift	Г7 Г0		fast row
	F7		heat step _1
	E0		beat step +1
	ro chift	F7	beat step 16
	SIIIIL	Г/ ГО	beat step 10
		ГŎ	bet key 1
	D Chift	-	not key 1
	SNIT	5	save to not key 1
CIRL	Ь		hot key 2

CTRL	Shift	6	save to hot key 2
CTRL	7		hot key 3
CTRL	Shift	7	save to hot key 3
CTRL	8		hot key 4
CTRL	Shift	8	save to hot key 4
CTRL	Т		4 beat loop
CTRL	Y		loop exit, reloop
CTRL	Shift	Т	step pitchshift -0.1 semitones
CTRL	Shift	Y	step pitchshift +0.1 semitones
CTRL	Shift	U	move loop back
CTRL	Shift	-	move loop fwd
CTRL	U		cut loop
CTRL	1		expand loop
CTRL	F		match to player 1
CTRL	Shift	F	match to player 3
CTRL	G		quantize grid (toggle on/off)
CTRL	Н		lock to master sync (toggle on/off)
CTRL	Shift	G	timestretch (toggle on/off)
CTRL	Shift	Н	timestretch HQ (toggle on/off)
CTRL	С		step pitch -0.5%
CTRL	V		step pitch +0.5%
CTRL	Shift	С	step pitch -0.1%
CTRL	Shift	V	step pitch +0.1%
CTRL	period (.)		reset pitch
CTRL	single quote(')		timecode on/off
Numeric Pad 2			load track
CTRL	Numeric Pad 2		unload track
		F	PLAYER 3
ALT	CTRL	F11	step -1 active cue (no jump)
ALT	CTRL	F12	step +1 active cue (no jump)
F9			cue. If it's not playing it does cue play while down
CTRL	Shift	F9	jump to autocue
F10			play/pause (toggles)
CTRL	Shift	F10	beat synced play start
F11			bend - 2%, stutter edit if paused, moves cue if cued
F12			bend + 2%, stutter edit if paused, moves cue if cued
Shift	F9		punch in cue
Shift	F10		play retrig, continue play if cueplay started
Shift	F11		fast fwd
Shift	F12		fast rew
CTRL	F11		beat step -1
CTRL	F12		beat step +1
CTRL	Shift	F11	beat step -16
CTRL	Shift	F12	beat step +16
CTRL	9		hot key 1
CTRL	Shift	9	save to hot key 1
CTRL	0		hot key 2
CTRL	Shift	0	save to hot key 2
CTRL	minus (-)		hot key 3
CTRL	Shift	minus (-)	save to hot key 3
OT DI	equal (=)		hot key 4

CTRL	Shift	equal (=)	save to hot key 4
CTRL	0		4 beat loop
CTRL	Р		loop exit, reloop
CTRL	Shift	0	step pitchshift -0.1 semitones
CTRL	Shift	Р	step pitchshift +0.1 semitones
CTRL	Shift	lbracket ([)	move loop back
CTRL	Shift	rbracket (])	move loop fwd
CTRL	lbracket ([)		cut loop
CTRL	rbracket (])		expand loop
CTRL	J		match to player 2
CTRL	Shift	J	match to player 1
CTRL	К		quantize grid (toggle on/off)
CTRL	L		lock to master sync (toggle on/off)
CTRL	Shift	К	timestretch (toggle on/off)
CTRL	Shift	L	timestretch HQ (toggle on/off)
CTRL	В		step pitch -0.5%
CTRL	Ν		step pitch +0.5%
CTRL	Shift	В	step pitch -0.1%
CTRL	Shift	Ν	step pitch +0.1%
CTRL	slash (/)		reset pitch
CTRL	backslash (\)		timecode on/off
Numeric Pad 3			load track
CTRL	Numeric Pad 3		unload track