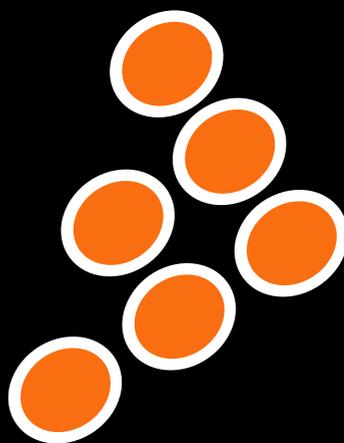




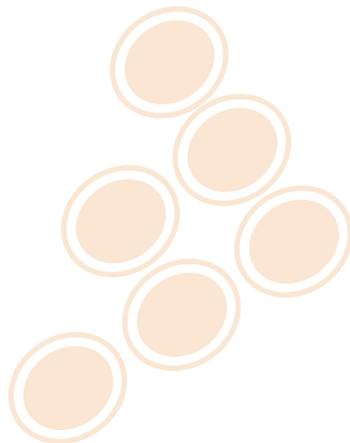
CROSS
PACK

Quick Start Guide



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Welcome

Thank you for choosing CROSS PACK. CROSS PACK is a compact plug and play digital vinyl system that includes Mixvibes CROSS DJ software and the U46MK2 audio interface. This DJ software was designed to provide a simple and user-friendly environment, so you can focus on mixing tracks and having fun.

Take a few minutes to run through this quick start guide and you'll be on your way to making great mixes on CROSS in no time at all!

We invite you be a part of the MixVibes community to share your experiences with other DJs, find help and advice, and check for available updates. See you online on the [forum](#)¹ or on the [website](#)²!

Minimum System Requirements for PC

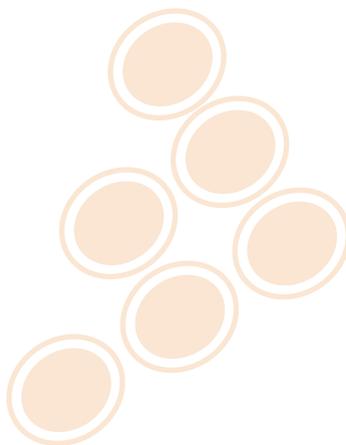
- Windows XP SP2 or Windows Vista SP1 or Windows 7
- Pentium 4 / 2 GHz or equivalent
- 512 MB RAM (1 GB recommended)
- One available USB port
- Hard drive space for music

Minimum System Requirements for MAC

- Mac OS X 10.4
- Intel Core Duo / 1.83 GHz or higher
- 512 MB RAM (1 GB recommended)
- One available USB port
- Hard drive space for music

Box Contents

- CROSS installation disc
- U46MK2 USB audio interface
- 2x control CDs
- 2x control records
- 1 USB cable; set of RCA cables; RCA Y-adaptor
- This quick start guide
- Keyboard stickers

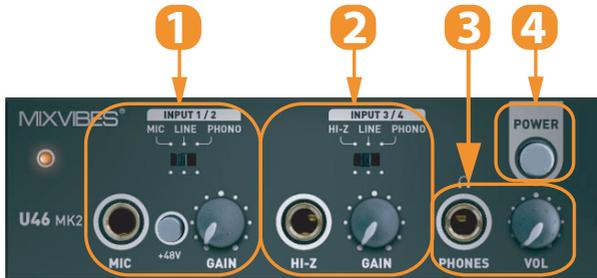


¹<http://forum.mixvibes.com>

²<http://www.mixvibes.com>

1 U46MK2 Description

1.1 Front Panel



Front panel

1 Channel 1/2 input

Input source (MIC/LINE/PHONO) selector: This is where you select input sources of channel 1/2.

MIC input connector: Connect your Microphone to this Balanced 1/4" connector.

+48V Phantom power switch: Supply +48V DC phantom power to input channels 1/2 simultaneously by pressing the button.

Gain control for MIC input: Controls the input level of the microphone.

2 Channel 3/4 input

Input source (Hi-Z/LINE/PHONO) selector: This is where you select input sources of channel 3/4.

Hi-Z input connector: Connect any line level instrument such as an electric guitar or bass guitar to this unbalanced 1/4" connector.

Gain control for Hi-Z input: Control the input level of the instrument input.

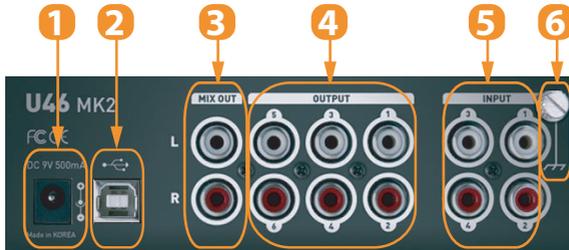
3 Headphone output with volume control

Headphone output connector: Monitor all input and output sources through the headphone output. This output is not assignable so follow the instructions on the following pages to connect your headphones to DJ.

Control of the headphone output: The headphone output level can be adjusted with the control knob.

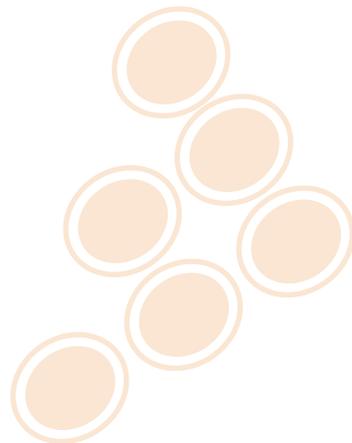
4 Power Switch

1.2 Rear Panel



Rear Panel

- 1 External Power supply connector: If you use a microphone that requires phantom power, especially with a laptop computer, it's strongly recommended to use a DC +9V/500mA adapter (not included).
- 2 USB connector: Connects the USB cable to the computer.
- 3 Mix output: You can monitor all input sources and output sources through the Mix output. Usually, you can use Mix out to connect to powered monitor speakers.
- 4 Output 1~6: You can use these outputs to connect an external mixer or your sound system (amplifier, powered speakers, or home stereo).
- 5 Input 1~4: You can use these inputs to connect your decks. The phono level inputs and line level inputs share the same connectors. Use the input source selectors on the front panel to select the input sources.
- 6 Ground lug: When you use a turntable, connect the ground lead from your turntable to the ground lug to help prevent hum.



2 Connections

Follow the instructions below to use CROSS and the U46MK2 with a pair of decks and an external mixer.

- 1 If you are using vinyl, plug the ground of your turntable to the ground lug on the U46MK2 or on your DJ mixer.
- 2 Connect the outputs of your decks (vinyl or CD) to the RCA inputs of your U46MK2 plugging the left deck into the inputs 1/2 and right deck into the inputs 3/4. Match the left channel (usually white) with the white RCA sockets on the U46MK2, and right (usually red) with the red sockets.
- 3 Connect the outputs of your U46MK2 to the line inputs of your mixer. Using the included RCA cables, connect the outputs 1/2 into a line input of your mixer, then repeat for the outputs 3/4, into another available line input of your mixer.
- 4 Set the U46MK2's input selectors to 'Line'. We recommend to not use any external phono preamp (i.e. featuring RIAA correction) for the vinyl control input. You must let CROSS deal with the raw input signal: so use your vinyl decks without phono preamp.
- 5 Connect the U46MK2 to a free USB slot of your computer.
- 6 Turn on your U46MK2.



Connections

Follow the instructions below to use CROSS and the U46MK2 with a MIDI controller and the integrated mixer.

- 1 Connect outputs 1/2 of your U46MK2 to your sound system (amplifier, powered speakers, or home stereo).
- 2 Connect your headphones to outputs 3/4 of your U46MK2 by using the RCA to mini-jack Y adapter included in the pack.
- 3 Connect the U46MK2 to a free USB slot of your computer.
- 4 Turn on your U46MK2.
- 5 Connect the MIDI controller to your computer. Refer to your MIDI controller's owner's manual for details.
- 6 Turn on your MIDI controller.

3 Installation

3.1 Windows

- 1 Insert CROSS installation disc into your computer's CD-ROM drive. The installation program will launch automatically. In case it does not, open Windows Explorer, navigate to the CROSS installation disc and double-click on the file «Install Cross .exe».
- 2 Choose your language and click **OK**.



Language Selection

- 3 Read and accept the End-User License Agreement by clicking **I Agree**.



End-User License Agreement

- 4 Select the Components you want to install and click **Next**.



Components Selection

- 5 Choose the folder in which you want to install CROSS and click **Next**.



Choose Install location

- 6 Choose the Start Menu folder in which you want to create the CROSS shortcut. To start the installation, click **Install**.



Start Menu Folder Location

- 7 Once the installation is complete you can click **Finish**. If the check box **Run CROSS** is selected, CROSS will launch automatically.



Finish Installation

3.2 Mac OS X

- 1 Insert the CROSS installation disc into your computer's CD-ROM drive.
- 2 Double-click the CROSS icon on your desktop.
- 3 Drag and drop CROSS into your Applications folder.



Installing CROSS

3.3 Launching CROSS

Windows Go to [Start > All Programs > MixVibes > Cross] and click on the CROSS icon.

Mac OS X Go to [Applications > Cross] and double-click on CROSS .

3.4 License Key

Enter the License Key found on the sleeve of your installation disc and click **Submit**.



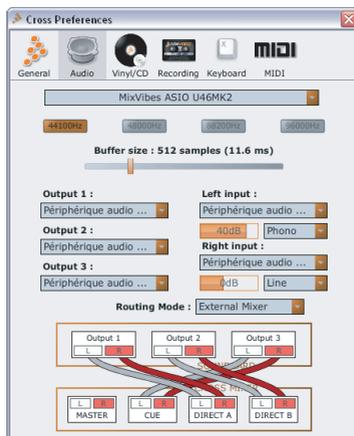
License key



4 Configuring CROSS

4.1 Audio Configuration

- 1 Go to [File > Preferences > Audio].



Audio Configuration Pane

- 2 Select **MixVibes ASIO U46MK2** on PC or **U46DJ** on Mac from the pull down menu.
- 3 Choose your desired **sample rate** and **buffer size**. The default settings are 44.1kHz sample rate and 512 samples of buffer.
- 4 Select the **outputs** of the U46MK2 corresponding to the mixer channels.
- 5 Select the **inputs** of the U46MK2 corresponding to the decks that will playback the control vinyl/CDS.
- 6 If you use control **vinyls**, set the input level to **Phono**. If you use control **CDs**, set the input level to **Line**. Make sure to follow the connection instructions in section 2. CROSS applies an RIAA correction in "bypass mode" (Line Input on the CROSS mixer) so that you can play regular vinyls.
- 7 Select your **routing mode**. If you are using an external mixer, select the routing mode External Mixer.

Here is a description of the different routing modes:

Simple Stereo The sum of the master and cue signals are routed to outputs 1/2 on your U46MK2.

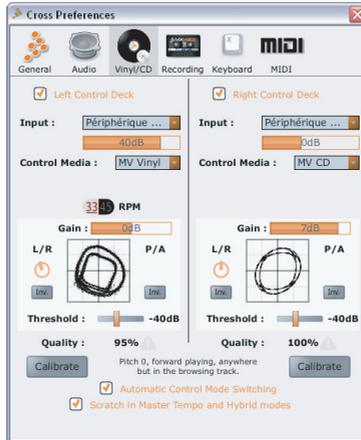
Dual Stereo The master signal is routed to outputs 1/2 and the cue signal is routed to outputs 3/4 on your U46MK2.

Split Mono The master and cue signals are folded down to mono. The mono master is routed to output 1 and the mono cue is routed to output 2 on your U46MK2.

External Mixer Deck A direct out is routed to outputs 1/2 on your U46MK2, Deck B direct out is routed to outputs 3/4. and the cue out is routed to outputs 5/6.

4.2 Time Code Calibration

- 1 Go to [File > Preferences > Vinyl/CD].



Time Code Calibration Pane

- 2 Check **Left/Right Control Deck** to enable the external control.
- 3 Select the **Control Media** that you will be using: MV vinyl, MV CD or 7" MV vinyl.
- 4 Start **playback of the control records** making sure that the pitch is set to zero on your decks and the playback direction is forward. If your decks have a Master Tempo function or any on-board effects, make sure they are also disabled as those will interfere with the calibration, and with the time code in general.
- 5 Click the '**Calibrate**' buttons. Once proper calibration is achieved, the calibration graphs will output rings similar to the ones shown in figure 3.2 'Time Code Calibration Pane'. Check that the percentage of the time code quality is close to 100% when your system is calibrated properly.
- 6 Close the Preferences window.
- 7 Select **which deck will control which player** by clicking on the A or B deck selector in the Head-Up Display directly above each deck. A vertical time code quality meter is located between the deck selector and the record icon. This gives you a visual indication of the time code quality during playback. Time code quality can be affected by improper connections, bad grounding, or if any effects or Master Tempo are active on the deck playing back the time code.



Deck Selectors and Time Code Quality

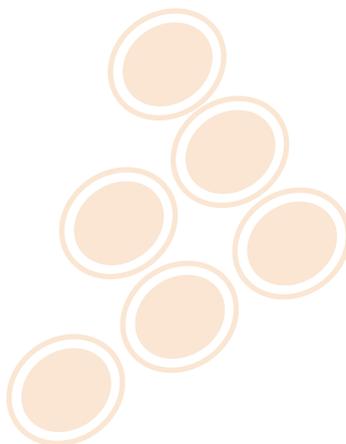
4.3 MIDI Configuration

- 1 Go to [File > Preferences > MIDI].



MIDI Configuration Pane

- 2 Select your MIDI input device from the pull down menu.
- 3 Select your MIDI device mapping by clicking on its picture.



5 Overview of the Graphical User Interface

Once CROSS is configured, you will see the following graphical interface:



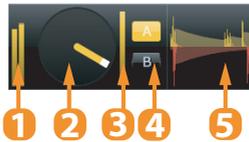
User Interface

5.1 Menu

The menu lets you access various commands in CROSS.

5.2 Head-Up Display (HUD)

The Head-Up Display contains information essential to your mix:



Head-Up Display

- 1 Input level meters.
- 2 Playback position of the control media.
- 3 Time code quality meter.
- 4 Deck Selectors.
- 5 The Beat Matcher display gives a visual representation of the synchronization between the players.

5.3 Players

The Players control the various playback functions of an audio file. Those function-sets will change based on the control mode - internal vs external.



Player

- 1 Displays the Title, Artist and Duration of the audio file.
- 2 Mode selector for the pitch fader. Selects between Speed, Tempo, or Hybrid modes.
- 3 Pitch fader.
- 4 Full track display. Gives an overview of the waveform for the entire audio file. Clicking on the waveform to will jump to that point in the track.
- 5 Smart Loop.
- 6 Manual loop.
- 7 Match the speed or tempo of the other deck.
- 8 Sync to the nearest down-beat of the other deck.
- 9 Reverse the playback direction.
- 10 Pitch range selector. Set the range of the pitch fader up to +/- 100%.
- 11 Set locators for seamless cue points.
- 12 Playback modes for external control media: Absolute, Relative, or Flexible.
- 13 Cue (internal playback mode only).
- 14 Play/Pause (internal playback mode only).

5.4 Integrated Mixer

When in External Mixer routing mode, only functions 1-3 will be available.



Integrated Mixer

- 1 Record Master.
- 2 Input selectors (Player or Line In).
- 3 Player output meters.
- 4 Gain.
- 5 Master output meter.
- 6 Pre Fader Listen.
- 7 EQ.
- 8 Crossfader.
- 9 Master Level.
- 10 Cue Level.
- 11 Players Level.

5.5 Dock

The dock is the central component of CROSS' media management system. It hosts multiple tabs which can be un-docked to view two or more lists at the same time. To un-dock a tab, click on the arrow to the right of the tab icon.

5.6 Browser

The browser displays the track information in list view and enables you to scroll through your collection and load tracks into the players.

5.7 Preview Deck

The preview deck enables you to quickly preview and select tracks in the headphones without loading them into a player. When in Play mode the preview deck will play the track currently selected in the browser.

6 Control Modes

6.1 External Control Modes

6.1.1 Absolute Mode

In this mode, the playback position of the control record/disc corresponds precisely with the playback position of the audio file in the player.

Use the Absolute mode when you want to use your turntable's tonearm (or the seek function on your CD) to skip thru the track. If you are using CD decks, you can use their cueing and looping capabilities as well.

6.1.2 Relative Mode

In this mode, the playback position of the control record/disc does not correspond with the playback position of the audio file in the player.

Use the Relative mode when you want to use non-linear functions like hot cues (Locations) and Loops. The «Automatic Control Mode Switching» preference in the Vinyl/CD preference pane allows CROSS to automatically switch to Relative mode when you set a location or a loop.

6.1.3 Flexible Mode

In this mode, the time code is disabled altogether, allowing you to pick up the needle or stop playback on your deck.

Use the Flexible mode when you need to deactivate the external control for any reason without interrupting a mix:

- when CROSS is in Relative mode, switch to Flexible to return to the beginning of the time code without interrupting your mix.
- CROSS will automatically switch to Flexible mode when the end of the time code is reached while a track is still playing.

When in Flexible mode, clicking on the Flexible button stops playback.



Absolute / Relative / Flexible modes

6.2 Internal Control Mode

In this mode, use the software to control the playback independently of the control records/discs.

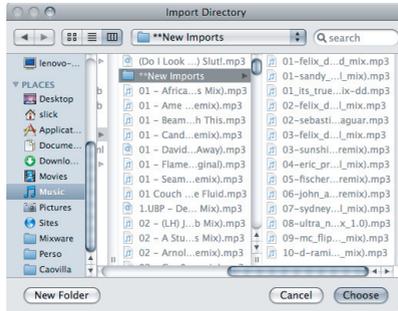
Use this mode when you want to control the playback using the mouse & keyboard, and/or a MIDI controller.

7 Importing Audio

7.1 Importing Folders

To import an entire folder of music:

- 1 Go to [File > Import > Directory]
- 2 Choose a folder or disc containing your music and click **Choose**.
- 3 CROSS will import all the audio tracks into the Collection.



Locating a Folder

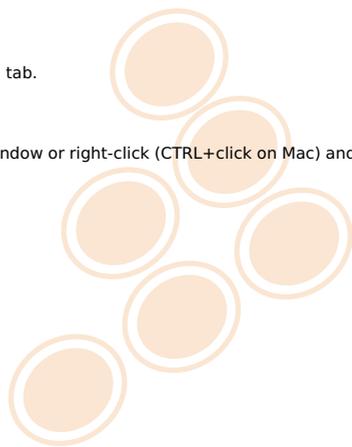
You can also import files by going to [File > Import > Media] or playlists by going to [File > Import > Playlist].

7.2 iTunes® Integration

If you use Apple's iTunes® software to manage your track collection, you can access your iTunes® Library and playlists by clicking on the iTunes® tab in the Dock.

To import tracks from iTunes®:

- 1 While viewing your collection, un-dock the iTunes® tab.
- 2 Select the tracks you want to import.
- 3 Drag and drop your selection into the collection window or right-click (CTRL+click on Mac) and choose **Add to Collection**.



8 Loading Tracks

After importing your audio tracks you can load them into the players. There are three ways of loading tracks:

With the mouse

- Drag and drop a track from the collection to one of the players.
- Right-click (CTRL+click on Mac) and select **Load in Player A, B or Active**.

With the keyboard

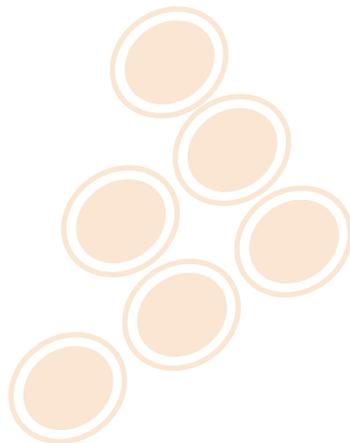
Use the up and down arrow keys to scroll through your collection. Load the highlighted track into one of the players by using the Load shortcut (Configure your shortcuts in [File > Preferences > Keyboard > Media Rack]).

With the control record

On the B-side of the control record, the last track is used for track browsing and selection. Put the needle down anywhere in this track and as the record turns it will browse through your collection. Stop the record on the desired track, lift the needle and put it back to the beginning of the record to load the track into the player.

With the control disc

Track 2 on the control CD is used for track browsing and selection. Select track 2 and press Play to browse your collection using the pitch fader. A negative pitch will scroll down and a positive pitch will scroll up. (The scrolling speed will vary with the pitch, careful not to go too fast...) Once you found the track you want to load, return the pitch to 0 to stop scrolling and select Track 1 to load it into the player.

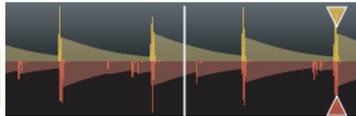


9 First Mix with CROSS

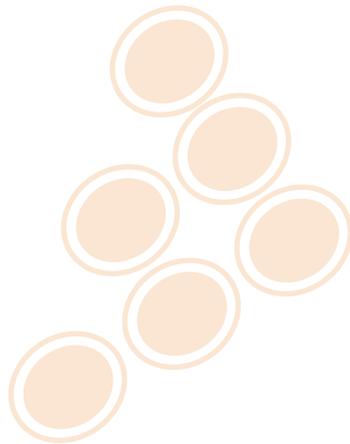
- 1 Load tracks into both players and the waveforms will appear.
- 2 Begin playback of the control records to start playback of the audio in the players.
- 3 You should now hear the music in your speakers: You can start mixing.
- 4 To go from one track to another, move the crossfader from left to right, or use the channels faders on your external mixer (or the CROSS mixer if you are not in External Mixer routing mode).
- 5 To pre-listen to tracks, use the cue section of your external mixer (or the CROSS mixer if you are not in External Mixer routing mode).
- 6 The two audio tracks are most likely not at the same tempo. You need to match the tempo of both tracks, and synchronize one player with the other by:
 - adjusting the pitch via the pitch buttons (on your decks if using external control). Use the Beat Matcher in the Head-Up Display as visual indicator.
 - using the Sync buttons to automatically perform those two tasks. Pressing the Sync button will adjust the playback position to match the downbeat of the other player and match the tempo of the other player.



Match



Sync



10 Troubleshooting

The audio tracks are not playing back

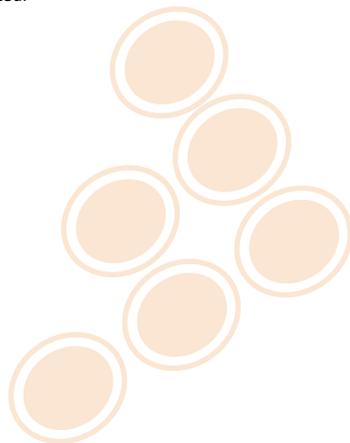
- Make sure you selected the correct audio interface in the audio preferences window.
- Make sure you activated the correct audio inputs and outputs of your audio interface in the audio preferences window.
- Make sure you selected the correct Routing Mode in the audio preferences window.
- Make sure that your control records/discs have been properly calibrated in the vinyl/CD preferences window.

There is no sound from speakers

- Check for activity on the output meter of the internal mixer. If there is no response from the meter, check all the controls of the mixer: faders, gain, kills, etc.
- If you are in external mixer mode, check your connections from your audio interface to your mixer and from your mixer to your sound system. Make sure you have the proper inputs selected on your mixer.

The time code quality is bad

- Check for proper connections of your turntables' ground wires.
- Make sure your needles are clean and not damaged.
- Make sure there is no dust on your records and needles.
- Make sure your cables are in good condition. Troubleshoot by using a different cable.
- Make sure your decks are properly connected to your audio interface.
- Make sure the right and left channels are not inverted.
- Make sure your record is not scratched.



Contact

- For all technical or sales information, please contact your local reseller or MixVibes directly:

MixVibes

4, rue de la Sablière

92230 Gennevilliers

FRANCE

www.mixvibes.com

- Technical support:

- online on our [forum](#)¹

- Sales Information:

- by email to sales@mixvibes.com

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²<http://www.mixvibes.com>