

TORO MIXLAB[™] Digital DJ System



GETTING STARTED

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Welcome

Congratulations on your purchase of M-Audio's Torq MixLab DJ system! M-Audio is an industry-leader in professional music products for computer-based musicians and DJs. What you hold in your hands is a piece of that heritage–a piece of the very products used daily by professionals around the world. With the Torq MixLab package, you will DJ using your collection of audio files on your computer. You can even record the results and burn them onto CD, or copy them onto a media player.



Installation

- Connect the included USB cable between the X-Session Pro and an available USB port on your computer.
- 2. Insert the Torq MixLab disc into your computer's CD-ROM drive
 - Windows: The installation should start automatically.
 - Macintosh: The disc will mount and display its content. Double-click "Install Torq"



3. Follow the on-screen instructions to complete the software installation.

4. Launch Torq by double-clicking the new link that was added to your desktop,

or...

Start > All Programs > M-Audio > Torq LE > Torq LE (Windows)

or...

Macintosh HD > Applications > Torq LE > Torq LE (Macintosh)

That's it – Torq is ready. Now, how does it work? Let's go through a few practical examples together and find out:

Enalist

Tutorial

Part I: Preparation

First, we'll need to check a few settings required for the following examples

- Click the icon in the upper right section of the Torq LE window. The Audio Preferences dialog opens.
- 2. Make sure your soundcard is selected under "Audio Interface".

(Windows users: If a driver with the word "ASIO" in its name is available, select it)

- 3. Click on the field labeled "Master Output" and check the available choices:
 - a. If "Left / Right / Left -- Right" are available:
 - Select "Left" for Master Output and "Right" for the Cue Output.
 - b. If there are multiple entries listed in the Master Output field, and some of them say 1/2 in their name and others say 3/4:
 - Select a "1/2" driver for the Master Output and a "3/4" driver for Cue Output.
 - Make sure to connect your sound system to your soundcard's first stereo output and your headphones to your soundcard's second stereo output.

For serious DJing, you need a soundcard that features separate stereo outputs for pre-listening (cueing) and for the sound the audience hears. Your soundcard features only one stereo output. Torq still allows you to use all of its features, including pre-listening, by using a trick: Torq splits your soundcard's stereo output into two mono outputs - one for prelistening and one for the audience (the left/right choices in this dialog). All you need to follow the examples in this tutorial is a Y-adapter cable that connects to your soundcard's stereo output via a male 1/8" jack and provides two female 1/8" jacks for your headphones and your sound system. You can find such cables at every well stocked electronicsor music store. Please also check the full Torg User Guide for more information, which can be found on the in the Torg LE application folder.

Part II: Overview

Torg MixLab is composed of two parts: the Torq LE DJ software and the M-Audio X-Session Pro DJ controller. Torq LE is a full-featured DJ application that has all the functions you'd find on expensive DJ CD players and turntables. It plays back music at varying speeds and pitches and automatically matches tempos of songs, creating smooth transitions between tracks. You can also perform remix tricks such as looping and instant jumps to other locations in the song. Lastly, Torq LE allows you to apply effects to the music and fully control the mix of the songs. The M-Audio X-Session Pro provides you with hands-on control over Torq LE. After plugging the X-Session Pro into one of your computer's USB ports, Torq LE instantly recognizes it. Moving the controls on the X-Session Pro results in the corresponding on-screen controls moving in kind. This is the best way to DJ since you can perform multiple tasks at once on the controller, as opposed to controlling only one thing at a time with the mouse.

DJing is an art. As with any art, it takes practice to become proficient. However, there are many features in the Torq MixLab package that will jump-start your learning process. This manual describes the features and use of the Torq MixLab system and offers insight into the art of DJing. Once you are proficient with Torq MixLab, the sky's the limit–you'll be ready to take the step up to the tools used by the pros!

> Food For Thought

In some ways, DJing resembles the circus tricks of spinning plates or juggling objects. As the DJ, it is your job to "keep everything up in the air" in a smooth fashion, so that the music never stops as you move from one song to another. All of the tools available to you merely influence and cajole the playback of music that would normally play straight through, uninterrupted and independent from each other from beginning to end. It is therefore a necessity to think one step ahead of where you are, since some DJ techniques must be performed before you actually want your audience to hear them. This ability to anticipate changes in the music directly relates to how well you know the music in your library. If you know the structure and patterns of a song like the back of your hand, you'll know what sections are appropriate for looping, interesting places to introduce filters and other effects, and empty or quiet areas where you might need to mix in another song. Intimate knowledge of your music library is also what helps you select the right progression of songs, by choosing songs of similar style and feel.

English

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> Getting the Music Together

In case this is your first stab at mixing, we've provided you with an exciting and diverse collection of music from various M-Audio M-Powered artists. During installation, the installer copies this collection onto your hard drive, in a folder called "Torq Traqs." If you are a Windows user, you'll find this folder in your "My Music" folder. Mac users will find the folder in their "Music" folder.

In order to help you select songs, Torq LE includes a Browser and Database to organize your music library. To search and sort your music library with ease, simply add your music folders to the Database. To illustrate, let's start by adding the "Torq Traqs" folder to Torq LE's database:

- If you're using a PC, click the "+" in front of "My Music" in the Browser pane. If you're using a Mac, click the "+" in front of "Music" in the Browser pane.
- Right-click on the "Torq Traqs" folder (CTRL+click if using a Mac with one mouse button) and select "Add to Database."
- Torq LE now includes the "Torq Traqs" folder in any searches of the Database. You can confirm this by clicking on "Database" in the Browser pane-the following list of songs should be displayed:

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Part III: Action!

> Playing Music

The next step is to load one of the songs onto a Deck, so you can play it:

- Click on the song titled "Somnambulist" by BT and drag it up to Deck A on the left side of the screen.
- 2. Release the mouse button to load the song into the Deck.
- Move the crossfader on your X-Session Pro to the left. This ensures that you'll hear only Deck A.
- Press the Play/Pause button to start the song. You should now hear the music from you computer's speakers.
- You can adjust the overall volume of Torq LE using the Master Volume slider, located to the right of the crossfader (pictured below). Keep an eye on the meter in this window-if



the top segments light up, turn down the Master Volume until they turn off. This prevents the music from distorting.



> Loading the Next Song

While the BT track plays on Deck A, you can load another song into Deck B:

- Click on the song titled "Gabriel and Dresden Club Mix," and drag it up to Deck B (on the right side of the screen).
- 2. Release the mouse button to load the song onto the Deck.

> Previewing the Next Song

 Put your headphones on and press the Right Headphone Button on the X-Session Pro. You'll see the PFL/Headphone icon light up on the right side of the Mixer on screen.



2. Turn down the headphone volume by moving the Headphone Volume slider to the left with the mouse.



- Press the Play/Pause button on the right side of the X-Session Pro to start playback of Deck B. You'll hear the beginning of "Gabriel & Dresden Club Mix" in your headphones.
- 4. Turn up the Headphone Volume slider until the song is at a comfortable listening level.

Now take off your headphones. Notice that you still hear the BT track over the speakers and not "Gabriel & Dresden?" That is because you moved the Crossfader all the way to the left. Pressing the headphone button on the right mixer channel allows you to hear Gabriel & Dresden (Deck B) privately in your headphones.

> Synchronizing the Songs

Put your headphones back on, but leave one of the earcups off. This way, you can hear one song in your speakers, and the other in your headphones. Notice how the two songs are completely out of sync with each other? It sounds pretty terrible. If you were to try to mix Gabriel & Dresden into the speakers right now, it would result in what DJs fondly call a "train wreck."

In order to avoid a train wreck, you need to change both the speed and position of Gabriel & Dresden so that it matches the speed and position of BT. Torq LE has a handy Sync button to accomplish this task for you. Click the Sync button on Deck B and listen to what happens.



The two songs now play at the same speed and are in sync with each other. You can see that the BPM values for the two Decks are matched, indicating that the songs are running at the same speed.

> Mixing the Songs

Now that you have Deck B synchronized to Deck A, you can try mixing them together:

- 1. Slowly move the crossfader on the X-Session Pro from the left towards the center. You'll hear the Gabriel and Dresden track fade in on top of BT.
- 2. When the crossfader is at the middle, you'll hear both songs at the same time. Both songs are playing in sync so they almost sound like one.
- Continue moving the X-Session Pro crossfader towards the right. The BT track on Deck A will start to fade away. When the crossfader is fully right, you'll hear only the Gabriel and Dresden track on Deck B.

Congratulations! You just performed your first DJ crossfade! It may not have sounded as smooth as other DJ mixes you've heard, but this was only your first attempt-and you may not have heard those songs before. Once you begin to work with familiar music, you'll find it easier to do clean crossfades.

Part IV: An Advanced Mix

So let's take this up a notch. In this example, you'll mix three songs together. You'll start with "Defective" by The Crystal Method, mix into "Picture Of You" by East Coast Boogiemen & DJ Heather, and finally, you'll mix into "A Spirit Lost" by The Nova Dream Sequence.

You won't use the crossfader to mix this time-you'll leave it right in the center. Instead, you'll use the EQs and Filters to create the mix. You'll see how adjusting the frequencies of a song can help create a subtle blend between songs.

This example also introduces you to QuickCue Markers. There are five assignable QuickCue markers for every song. When placed in the song, they appear in the small Overview Waveform in the Deck and in the larger Scrolling Waveform display in the middle of the screen. They show up as white numbers with a white circle around them, and Torq LE saves their locations with every song.

We have already placed the QuickCue Markers in the songs you're about to use. During this example, you'll perform certain tasks when playback reaches these various markers. Let's get started:

- 1. Click on the song "Defective" by The Crystal Method and drag it over Deck A.
- 2. Replace "Somnambulist" with "Defective" by releasing the mouse button.
- 3. Move the Volume A slider on the X-Session Pro down 4 lines. This turns down the volume of "Defective," which happens to be a very loud song.
- 4. Press the left Play/Pause button on the X-Session Pro to start Deck A.

The next song you're about to load onto Deck B is not as loud as "Defective" on Deck A. You'll therefore need to increase the volume of Deck B in order to match the loudness of Deck A:

- 1. Use the mouse to increase the right Gain knob all the way to +6dB. This makes the song twice as loud as normal, in order to match it with the song on Deck A.
- 2. On the X-Session Pro, turn the right Low EQ knob down all the way. This action removes the bass frequencies from Deck B when it starts playing.



- 3. Click on "Picture Of You (Ken's Drunk on Jack Mix)" by ECB & DJ Heather and drag it up to Deck B. Release the mouse button to load the track.
- 4. Click the Sync button on Deck B to turn it on. Even though the ECB & DJ Heather song is already the same speed as The Crystal Method (they both have a BPM of 125), having Sync on keeps the two tracks aligned with each other automatically.

■ Your next task is to start the ECB & DJ Heather track at just the right moment so that it will play along with The Crystal Method in a complimentary fashion. We've placed a QuickCue Marker in "Defective" to indicate where "Picture Of You" should start.

 By looking in the Overview Waveform in Deck A, you'll see that the yellow Now Line is slowly approaching QuickCue Marker 1. Put your finger on the Play/Pause button for Deck B so you'll be ready to press it.



2. When playback gets close enough, you'll also see QuickCue Marker 1 show up in the Scrolling Waveform display, as shown below.



3. When QuickCue Marker 1 is in the center of the Scrolling Waveform, press Play/ Pause on Deck B. This action starts playback of Deck B and synchronizes it to Deck A. It should look like this:



If all went smoothly, you now hear both The Crystal Method and ECB & DJ Heather playing from your speakers at the same time.

Next, you'll use the Filter effect to remove the high frequencies from "Picture Of You," right when the drums stop in "Defective." We've placed a QuickCue Marker in "Picture Of You" to indicate where this should happen.

- If you look at the Overview Waveform for Deck B, you'll see that the yellow Now Line is approaching QuickCue 1. Put your hand on the Filter knob for Deck B (this is the knob in the upper-right corner on the X-Session Pro controller).
- 2. When QuickCue Marker 1 of Deck B (pictured in the Scrolling Waveform display) passes under the Now Line, quickly turn the Filter knob counter-clockwise to the 9 o'clock position (the indicator will be pointing to the left). This makes the ECB & DJ Heather song sound muffled, and you'll only hear a little bit of the bass drum.
- Now slowly turn up the Filter knob as the music builds in this section. Your goal is to have the knob at 12 o'clock when QuickCue Marker 2 passes under the Now Line of Deck B.

If you did that properly, then you managed to cause the ECB & DJ Heather track to mirror the same pause in energy as heard in The Crystal Method song-you made the two songs sound like one.

■ This whole time, the bass has been removed from "Picture Of You" because you turned the Low EQ knob on Deck B all the way down. In a moment, the bass on "Defective" will stop, and you'll need to turn the Low EQ back up:

- You should see the yellow Now Line of Deck B's Overview Waveform approaching QuickCue 3. Go ahead and put your hand on the Low EQ knob of Deck B.
- 2. When QuickCue 3 scrolls under the Now Line at the center of the Scrolling Waveform display, quickly turn the Low EQ knob to the 12 o'clock position.
- 3. With the bass restored, the ECB & DJ Heather track carries the beat during this breakdown in The Crystal Method track.
- 4. When QuickCue 4 passes under the Now Line, quickly turn the Low EQ back down-fully counter-clockwise. This removes the bass from "Picture Of You" when the beat in "Defective" starts again.

By turning down the bass in one of the songs, it allows your mix to sound cleaner. While not always necessary, this is a good trick to remember, as playing multiple bass parts together often sounds bad.

■ Very soon, you'll reach the end of the song "Defective." To help make the transition as smooth as possible, you'll use the Filter to gradually muffle the song until it ends.

- 1. When QuickCue 2 of Deck A passes under the Now Line, slowly turn down the Filter on Deck A.
- 2. You'll want to do this slower than before, as your goal is to have the Filter knob at the 9 o'clock position, right when "Defective" ends.
- At the same time, put your hand on the Low EQ knob for Deck B. Turn this knob to the 12 o'clock position the instant "Defective" ends. That action allows the bass from "Picture Of You" to take over when "Defective" ends.

■ Now that "Defective" has ended, it's time to load a new song in its place. You'll use "A Spirit Lost" by The Nova Dream Sequence:

- 1. Now that "Defective" has ended, turn off the Sync button on Deck B. This will keep "Picture Of You" playing at its current speed when you load the next song.
- 2. Click and drag "A Spirit Lost" from the File List and drop it onto Deck A, replacing "Defective".
- This song is not as loud as "Defective," so turn the left Volume slider on the X-Session Pro all the way up.
- 4. Turn the left Filter to the 12 o'clock position, in order to disable the effect.
- Turn the Low and Mid EQ knobs on Deck A all the way down. You'll also need to turn up the High EQ to roughly the 3 o'clock position (so the indicator on the knob is pointing to the right).
- 6. Press the Sync button on Deck A to match tempos to Deck B. "A Spirit Lost" is now standing by to play.
- When QuickCue Marker 5 of "Picture Of You" passes under the Now Line, start "A Spirit Lost" by pressing the Play/Pause button. The songs should sync up as shown below:



Unlike a moment ago, when you started "Picture Of You," you won't hear "A Spirit Lost" when you first start playing it. This is because you removed the majority of the frequencies in the song by turning down the Low and Mid EQ knobs. Therefore, to make the song audible, you'll need to turn up the EQ knobs.

- When Deck A reaches QuickCue Marker 1, quickly turn up the left Mid EQ knob to the 9 o'clock position.
- Continue to slowly turn up the Mid EQ. Your goal is to have the knob set to the 11 o'clock position when "A Spirit Lost" reaches QuickCue Marker 2. You'll hear the synthesizer pattern from "A Spirit Lost" begin to fade in as you do this.
- Once you've passed QuickCue Marker 2, play around with the Phaser effect on Deck A. Slowly move the knob around and listen to the sound of the synthesizer pattern change.
- 4. When playback of Deck A reaches QuickCue Marker 3, you'll need to do two things at once. First, turn the Phaser knob all the way down (to turn off the effect). Second, turn the Low EQ of Deck A to 12 o'clock.
- 5. Immediately turn the Deck A Mid EQ the rest of the way to the 12 o'clock position. At the same time, use your other hand to turn down the Mid EQ on Deck B by the same amount. This action causes "A Spirit Lost" to become the dominant song in the mix.
- Continue to turn down the Mid EQ on Deck B until it's completely counter-clockwise. You should do this before "A Spirit Lost" reaches QuickCue 4.
- 7. When "A Spirit Lost" reaches QuickCue Marker 4, the bass drum in the song stops, but you'll still hear the bass drum from "Picture Of You". Slowly turn down the Low EQ on Deck B during this breakdown, to make the bass drum fade away. The Low EQ should be all the way down by the time "A Spirit Lost" reaches QuickCue Marker 5.

Part V: Keep Spinning

Give yourself a pat on the back-you've just performed a rather complex mix between three songs! In case you didn't perform everything just right, feel free to repeat this example until it feels natural. Also feel free to experiment with other mixing techniques-try using the High EQ knobs in addition to the others when blending between tracks. Try using the crossfader, too, to add volume changes to the mix. In the end, it's all about what you like to hear. Experiment!

These two examples offer only a glimpse of what is possible with Torq MixLab. Please continue reading the complete Torq MixLab user guide on the included CD-ROM to learn the specific details of the Torq LE program, or refer to the interactive manual (press the Help button of Torq LE, located at the top right of the application, and choose "User Manual" from the resultant dialog box). There are many features that you haven't used yet. There are also some troubleshooting tips for synchronizing tracks in the event that Torq LE doesn't analyze the song properly (some music can't be analyzed due to variations and complexity in the song). Read more and you'll be ready to mix anything at your next party or podcast.



Additional Information and Support

Help on the Web:

The M-Audio website (www.m-audio.com) contains the latest software updates as well as useful links to news stories, FAQs, and technical support. We recommend checking this site periodically to ensure you have the latest software version and most up-to-date information about your M-Audio products.

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Warranty

Warranty Terms

M-Audio warrants products to be free from defects in materials and workmanship, under normal use and provided that the product is owned by the original, registered user. Visit www.m-audio.com/warranty for terms and limitations applying to your specific product.

Warranty Registration

Immediately registering your new M-Audio product entitles you to full warranty coverage and helps M-Audio develop and manufacture the finest quality products available. Register online at www.m-audio.com/register to receive FREE product updates and for the chance to win M-Audio giveaways.

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WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. *Wash hands after handling*.

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