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You can read the recommendations in the user guide, the technical guide or the installation guide for M-AUDIO TORQ XPONENT. You'll find the answers to all your questions on the M-AUDIO TORQ XPONENT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual M-AUDIO TORQ XPONENT

User guide M-AUDIO TORQ XPONENT

Operating instructions M-AUDIO TORQ XPONENT

Instructions for use M-AUDIO TORQ XPONENT

Instruction manual M-AUDIO TORQ XPONENT

M-AUDIO



torq xponent

Advanced DJ Performance/Production System

English

User Guide



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... @@@@The lightweight, compact controller connects to your computer via a single USB cable and requires no computer disassembly. Even if you're an experienced DJ, please take a moment to read through this User Guide and familiarize yourself with all of the unique features found on Xponent. You may also want to refer to your DJ application's documentation to better understand how this controller can be integrated with your software. Your experience and enjoyment with Xponent will be greatly enhanced by a good working knowledge of your equipment. 1 Xponent comes bundled with SynchroScience Torq, an advanced DJ software application designed to integrate seamlessly with the controller. While you are free to use Xponent with any ASIO- or Core Audio-compatible software, this guide uses Torq for some of the illustrations and examples. We recommended that you install Torq so you can follow along with the examples in this guide.

What's in the Box? Your Xponent package contains the following: <<<< Xponent USB DJ controller and audio interface Torq CD-ROM containing Torq software, Xponent drivers, and documentation USB cable 12VDC 1000mA power supply Printed Quick Start Guide 2 Torq Xponent User Guide \ 4 Xponent Features Xponent has the following features: <<<< All-in-one computer DJ solution with control inputs and audio outputs 20 knobs 4 vertical faders 1 horizontal crossfader <<<< 75 backlit buttons 2 touch-sensitive scratch wheels 3 Integrated Trackpad with two mouse buttons Bundled with SynchroScience Torq DJ software Minimum System Requirements Operating Systems Windows 4 Xponent is supported under Windows XP Home and Professional with Service Pack 2 or later. Windows XP Media Center Edition is not currently supported. Windows 2000, Windows 98, or Windows Me are not supported. Check <http://www.m-audio.com> for Windows Vista driver availability. Visit the Windows update web pages to make certain you have the most current updates and fixes supplied by Microsoft. Macintosh Xponent is supported under Mac OS X version 10.3.9/10.

4.7, or later. Earlier versions of the operating system are not supported. Hardware* Windows <<< Pentium III 500 MHz (higher speed CPU may be necessary for laptops) 256MB RAM One native USB port Macintosh <<< Macintosh G3**800 MHz/ G4**667MHz (higher speed CPU may be necessary for laptops) 256MB RAM One native USB port *M-Audio suggests checking the minimum system requirements for your software, as they may be greater than

the above specifications. **G3/G4 accelerator cards are not supported. Torq Xponent User Guide \ 5 Installation 5 You must install drivers in order for Xponent to operate properly. Please consult the included Quick Start Guide for installation instructions. Once the drivers are installed, you may need to configure your audio software to route signals to and from Xponent. Refer to your program's user guide to learn how to do this. Controls and Connectors 6 While Xponent may look like a traditional DJ mixer with CD players attached to each side, keep in mind that nearly all of the controls actually send out MIDI note and CC data unless otherwise noted.

IMPORTANT: Be careful not to touch Xponent's controls when the unit is powering on. Xponent automatically calibrates itself when powering up and touching any of its controls during startup may cause the controller to work in unexpected ways. The Progress Meters on each deck indicate the status of the calibration; once all of the Progress Meter LEDs are illuminated, the remaining buttons on the unit will become lit and Xponent is ready to use. Torq Xponent User Guide \ 6 Rear Panel 1. 2.

3. 4. Booth Output If a venue contains a separate DJ booth with its own speakers, connect these RCA outputs to the amplifier or powered speakers within the booth.



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The Booth knob (14) controls the volume of this output. Master Output Connect these RCA outputs to the main sound system of the club, studio, or venue in which you are performing.

The volume of this output is controlled with the Master knob (13). Pedal Inputs These 1/4" inputs allow you to control your DJ software using foot pedals. There is an input for a footswitch and another for an expression pedal. MIDI Output This is a standard 5-pin MIDI output that can transmit MIDI data to an external MIDI device such as a keyboard or drum machine. This port operates in one of two modes: · Host Mode In this mode, the MIDI Output port transmits messages generated by the host computer (such as from a MIDI sequencing application). Xponent operates in this mode when it is connected to your computer using the supplied USB cable. Surface Mode The MIDI Output transmits MIDI messages generated by the buttons, knobs, wheels, and sliders on Xponent. Xponent operates in this mode only when the controller is not connected to a computer through USB. · 5. MIDI Input This is a standard 5-pin MIDI input that can receive data generated by an external device such as a MIDI keyboard or control surface.

Like the MIDI Output (4), this port operates in one of two modes: · Host Mode In this mode, messages received at the MIDI Input port are transmitted to an application in your host computer (such as your DJ software or MIDI sequencing program). Xponent operates in this mode when it is connected to your computer using the supplied USB cable. Surface Mode Messages from an external MIDI source are used to control the lights under the buttons and meters. While this mode may not be very useful to most users, some "power users" interested in MIDI programming may find this functionality to be quite useful. · 6.

7. USB Port The USB port provides audio and MIDI communication with your computer. Connect this jack to an available USB port on your computer.

Power Switch This switch turns Xponent on and off. IMPORTANT: Do not touch Xponent's controls while the unit performs its power-on calibration.

8. 9. DC Power Jack (12VDC, 1000mA) Connect the supplied power adapter to this jack to power Xponent. Kensington Security Slot theft. This jack is compatible with Kensington security cables to protect your device from Torq Xponent User Guide \ 7 Top Panel NOTE: Xponent features identical controls on each side of its top panel.

To simplify the diagram above, only the controls on the left hand side are numbered and identified; the corresponding controls on the right side are identical in function unless otherwise noted. NOTE: The knob, button, and slider functions described below apply when using Xponent with SyncroScience Torq, a powerful DJing application included with Xponent. If you'd like to use Xponent with another DJ program, refer to that software's user guide to learn how to map the controls on Xponent to be user-defined. These two buttons have been assigned to the QS1 and QS2 buttons in each Deck. If you wish, you can re-assign these buttons to other functions using Torq's MIDI Learn feature.

22. Mixer Knobs (G, H, M, L) The G, H, M, and L knobs control the channel gain and the high-frequency, mid-range, and low-frequency EQ settings within Torq. Torq Xponent User Guide \ 9 23. Level Meters These LED meters are used to display the audio levels of the Master Output (2). These meters are controlled by MIDI CC information generated by your music software and do not monitor the actual audio passing through Master Output of the interface. This means that these meters will not illuminate if your DJ software does not send out proper MIDI CC information to control these meters. 24. Deck Knobs These knobs are used in conjunction with the Deck Buttons (25) to control Torq's effects. Viewed from left to right, the first two knobs control the left (Send Amount) and right (Parameter) knobs for the first effect while the third and fourth knobs control the Send Amount and Parameter knobs for the second effect.

NOTE: The Bank Select Switch (41) must be set to the left position for the Deck Knobs to control the first two effects as stated above.

To control Torq's third and fourth (VST plugin) effects, slide the Bank Select switch to the right. 25. Deck Buttons These four toggle buttons are used in conjunction with the Deck knobs (24) to control Torq's effects. Viewed from left to right, the first two buttons control the left (On/Off) and right (Parameter) buttons for the first effect while the third and fourth knobs control the On/Off and Parameter buttons for the second effect. NOTE: The Bank Select Switch (41) must be set to the left position for the Deck Buttons to control the first two effects as stated above. To control Torq's third and fourth (VST plugin) effects, slide the Bank Select switch to the right. 26. Pitch Bend/Nudge Buttons These buttons are used to either create temporary pitch changes or microadjustments to the playback speed of a song. 27. PFL Knob (Cue) This knob controls the PFL knob within Torq and is used to select the audio source for the headphones.

28. Phones Knob (Phones) This knob adjusts the output of the Headphone output (40). Note that this is an analog knob and does not generate any MIDI data. 29. Progress Meter These meters illuminate from left to right to indicate how much of your song has elapsed.

These LEDs are controlled by MIDI CC data and rely on your host application to light up as a song progresses. These lights may not illuminate if your application does not send out proper MIDI CC data. 30. Seek Buttons These buttons control the seek forward and seek backward function on each deck of Torq. Hold Shift and press either button to jump to the beginning or end of the song.

31. User Buttons These buttons control the following features within each Deck of Torq: QuickCues (1, 2, 3, 4, 5) These QuickCue buttons allow you to quickly jump to five points that you've preassigned within each song. This lets you quickly jump to various sections of a song (i.e., the verses, chorus, etc.) Refer to the Torq User Guide to learn how to set QuickCue points. Offset Buttons (Right Arrow, Left Arrow) Sometimes when mixing two songs together, you may find that the beats are aligned with each other, yet the two songs are still out of phase (i.e., a kick drum on one deck lands with the snare drum on the other deck). Pressing these buttons resolves this problem by shifting the current Deck's playback position forward or backward by one beat-length (allowing the kick drums to land together on each deck).

Speed & Key Lock (Lock Button) This button engages and disengages the time-compression and timeexpansion functionality within Torq. When the Lock button is on, the pitch and speed of the song are locked together (Torq's time-stretching is therefore turned off).



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Channel 2 1 1 1 1 2 2 2 2 1 2 1 2 3 3 1 2 1 2 3 3 1 1 1 1 2 2 2 MIDI Note/CC 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
40 41 42 43 11 10 9 8 11 10 9 8 2 2 7 7 0 1 44 44 22 22 11 12 12 13 14 15 12 13 14 Torq Xponent User Guide \ 16 Appendix A: Xponent MIDI CC defaults
(Continued) Control Deck 4 knob Pitch Slider Left Low knob Left Mid knob Left High knob Left Gain knob Pitch Slider Right Low knob Right Mid knob Right
High knob Right Gain knob Left Volume slider Right Volume slider Cue knob Crossfader Expression Pedal Scratch Wheel--rotate Scratch Wheel--rotate
Touchpad X axis Touchpad Y axis Section Right Left Middle Middle Middle Middle Right Middle Middle Middle Middle Middle Middle Middle Middle Middle Middle
Left Right Middle Middle Message Type CC-ABSOLUTE PITCHBEND CC-ABSOLUTE CC-ABSOLUTE CC-ABSOLUTE CC-ABSOLUTE PITCHBEND CC-
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RELATIVE CC-RELATIVE CC-ABSOLUTE CC-ABSOLUTE MIDI Channel 2 1 1 1 1 1 2 2 2 2 1 2 3 3 3 1 2 3 3 MIDI Note/CC 15 --8 9 10 11 --8 9 10 11 7
7 13 7 10 22 22 8 9 Torq Xponent User Guide \ 1 7 Appendix B: Controlling Torq Effects Using the Trackpad 10 When Xponent's MIDI Mode button (19) is
engaged, the Trackpad (16) can be used to control the effect parameters within Torq.



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In general, sliding your finger across the X-axis (i.e., left/right) controls one of the on-screen effect knobs while dragging along the Y-axis (up/down) controls the other knob. However, for certain effects, Xponent gives you deeper access to parameters that are not available through the user interface of Torq. Finally, some effects are activated or deactivated by simply touching or releasing the pad (for these effects, dragging your finger along the pad does not alter the effect). When the MIDI Mode button is engaged, the Left (17) and Right Mouse buttons (18) allow you to cycle through the effects slots and pick the effect you'd like to control using the Trackpad. Xponent's Trackpad can manipulate Torq effects in the following ways: [Note: Refer to the Torq User Guide for more information about Torq's effects.] DELAY: X-axis: Controls the Feedback knob of the Delay effect. The amount of feedback increases as your finger moves left to right.

Y-axis: Controls the Send Amount knob. The amount of the effect you hear increases as your finger slides from the bottom of the Trackpad to the top. REVERB: X-axis: Controls the Reverb Time knob. Reverberation time increases as your finger moves from the left edge of the Trackpad to the right. Y-axis: Controls the Send Amount knob.

The amount of reverb you hear increases as your finger slides from the bottom of the Trackpad to the top. FLANGER: X-axis: Controls the Flanger Delay knob. The left side of the Trackpad corresponds to the fully counter-clockwise position of the on-screen knob. The knob turns clockwise as your finger moves to the right. Y-axis: Controls the amount of feedback heard in the effect, which is a hidden parameter.

There is no feedback when your finger is at the bottom of the Trackpad. Feedback increases as your finger slides up the pad. PHASER: This effect has the same behavior as Flanger effect described above. Torq Xponent User Guide \ 18 DUAL-FILTER: X-axis: Controls the filter's cutoff frequency (parameter knob). When your finger is at the left of the pad, the parameter knob will be fully counter-clockwise. In this position, the effect acts as a low-pass filter and removes most of the high-frequency sounds playing from the associated deck. The cutoff frequency increases as your finger slides to the right of the pad. As your finger passes the center of the pad, the filter seamlessly shifts from low-pass filter into a high-pass filter. This means that when your finger reaches the rightmost edge of the Trackpad, most of the low-frequency sounds are filtered out. Y-axis: Controls the resonance of the Dual-Filter, which is a hidden parameter.

When your finger is at the bottom of the pad, the resonance will be minimal (the on-screen knob will be fully counter-clockwise). As your finger slides up the Trackpad, filter resonance increases. DISTORTION: Saturation Mode X-axis: Controls the effect's Color, which is a hidden parameter. The effect knob is fully counter-clockwise as your finger is on the leftmost edge of the pad. The knob turns clockwise as your finger slides to the right. Y-axis: Controls the Drive knob. The amount of drive increases as you move your finger to the top of the pad. Sample Rate Mode X-axis: Controls Bit Depth, which is a hidden parameter. Music will be heard with full bit depth (no effect) when your finger is on the leftmost edge of the Trackpad. Bit depth is reduced to 4 bits as the finger is moved to the right.

Y-axis: Controls the Sample Rate knob. The Sample Rate will be full (no effect) when your finger is at the top of the pad. @@@@Y-axis: Controls the Wet/Dry Mix knob. @@@@Moving your finger along the X or Y axis of the Trackpad does not change this effect in any way. REPEAT: X-axis: Controls the Repeat Size knob.

Sliding your finger toward the right will increase the repeat rate (make it shorter). Y-axis: Controls the Wet/Dry Mix knob. Moving your finger toward the top of the pad will increase the amount of repeat effect that you hear. Torq Xponent User Guide \ 19 Technical Information Caution: Electro Static Discharge, Electrical Fast Transient and Conducted RF interference may cause the unit malfunctioning. In such case, unplug the unit and plug it in again to restore normal operation.

Note: Your M-Audio product has been tested to comply with FCC Standards FOR HOME OR OFFICE USE. Modifications not authorized by the manufacturer may void users authority to operate this device. 11 Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: < < < Re-orient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

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