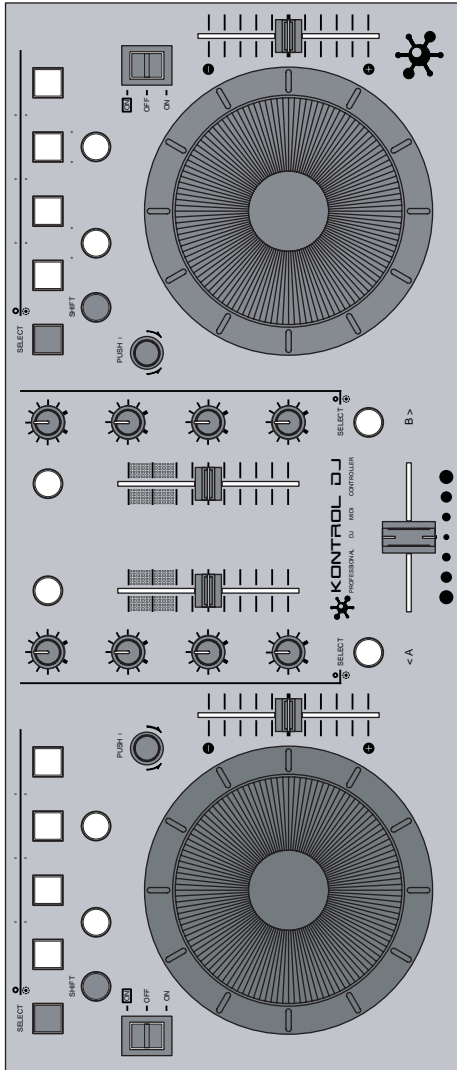


# KONTROL DJ

## KDJ500 CONTROLLER



USER'S MANUAL

EN

## PRECAUTIONS

### WARNING:

- Do not open the unit or attempt to disassemble the internal parts or modify them in any way. No user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not expose the unit to rain or moisture. Do not use it near water or wet conditions. Never set any container with liquid in it near this equipment.

### CAUTION:

- Be sure to read carefully this manual before using the unit. Please keep it in a safe place for future reference.
- Do not expose the unit to excessive dust or vibrations, or extreme cold or heat.
- Do not use this unit near other electrical products such as televisions, radios, or speakers.
- When cleaning the unit, use a soft, dry cloth. Do not use liquid cleaners such as benzene or thinner, or cleaning compounds or flammable polishes.
- Do not rest your weight on, or place heavy objects on the unit and do not apply excessive force to the switches, controls or connectors.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this unit during light storms or when not used for long periods of time.
- The user should not attempt to service the unit beyond that described in the manual. All other servicing should be referred to qualified personnel.

### EC Declaration of conformity:

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:  
EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-6-4 and EN 55022.  
Following the provisions of 89/336/EEC for electromagnetic compatibility directive and 73/23/EEC for low voltage directive.

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## INTRODUCTION

Thank you for choosing the Kontrol Dj KDJ500 controller.

The KDJ500 is a professional dj hardware controller designed especially to control Dj's applications. Its intuitive interface makes real-time operation easy for Dj's and allow to mix faster and easier. Forget the mouse and keyboard, with the KDJ500 you can control your entire music collection from your fingertips.

Please read this manual carefully and store it in a safe place for future reference.

## MAIN FEATURES

- All controls are fully MIDI assignable and works in real-time.
- 1 Ultra fast and smooth replacement crossfader (45 mm. travel). High quality design made by ALPHA (good for more than 300.000 operations).
- 4 Faders without midpoint detent (60 mm. travel). Smooth faders travel. High quality potentiometers made by ALPS (long life time).
- 14 Buttons + 6 special function buttons. Soft line curved and high output illuminated buttons. High quality buttons made by MEC (10.000.000 operations life time).
- 8 Rotary dials. Soft touch knobs to provide smooth velvet feel. 6 rotary dials with centre click and 2 rotary dials without it. High quality rotary potentiometers made by Panasonic (long life time).
- 2 Lever switches. The lever switches have three positions (on, off and on with lock position). Ultra high quality design, made by APEM.
- 2 Large jog dials (108 mm) for a close to vinyl turntable feel. High quality encoders, made by ALPS.
- 2 "Infinitely variable" push encoders. The push encoders have two functions (turn and press). Soft touch knobs to provide smooth velvet feel. High quality push encoders, made by ALPS.
- Midi in/out connectors (5-Pin DIN type plug). The midi in connector is used for receiving midi data, or to mix midi signals with the KDJ500 signals (merge function) so that the KDJ500 can function as a USB-MIDI interface. The midi out connector is used for sending midi data to other midi equipment.
- 1 USB connector. Public domain USB protocol. Open source USB data protocol with SDK (software development kit) and drivers for Windows (XP, XPx64, NT, Server 2003, 2000), Linux (2.4 & 2.6 Kernels) and Mac OSX (PowerPc & Intel).
- Self powered. The KDJ500 USB connector allows it to be powered directly from a compatible USB bus.
- Strong, compact size, metal case with brackets for 19" rack mounting.

The documentation for the KDJ500 is divided into three major task-oriented parts. Understand the role of each part, and refer to them as necessary.

### □ INSTALLATION

Part I covers the installation details for the KDJ500 software and USB drivers for the various operating systems supported. All chapters contain clearly written steps for the tasks you need to perform. Windows XP and Mac OSX (PowerPC & Intel) systems are covered.

- Installing KDJ500 software under Windows XP.
- Installing USB drivers under Windows XP.
- Installing KDJ500 software under Mac OSX (PowerPC & Intel).
- Installing USB drivers under Mac OSX (PowerPC & Intel).
- Connections.

### □ USING THE KDJ500

Part II provides simplified quick user guides of how to use the KDJ500. There are guides to use the KDJ500 with different computer mixing programs, a guide to use the Konverter software and a KDJ500 midi quick user guide. Quick user guides contain step-by-step instructions.

- KDJ500 midi quick user guide.
- Using Konverter (Windows and Mac OSX).
- Using KDJ500 with Traktor Dj Studio 2.X under Windows.
- Using KDJ500 with Traktor Dj Studio 3.X under Windows.
- Using KDJ500 with VirtualDj under Windows.
- Using KDJ500 with MixVibes 5 & 6 Pro under Windows.
- Using KDJ500 with Traktor Dj Studio 2.X under Mac OSX.
- Using KDJ500 with Traktor Dj Studio 3.X under Mac OSX.
- Using KDJ500 with DJ-1800 under Mac OSX.

### □ APPENDIX

Part III contains useful technical documents and programming guides.

- Konverter templates programming guide.
- Midi Control Change messages & Midi Note Numbers tables.
- KDJ500 Software Development Kit.
- Specifications.
- Warranty.

# INSTALLATION

---

## In This Part

**Chapter 1**  
Installing KDJ500 software under Windows XP

**Chapter 2**  
Installing USB drivers under Windows XP

**Chapter 3**  
Installing KDJ500 software under Mac OSX (PowerPC & Intel)

**Chapter 4**  
Installing USB drivers under Mac OSX (PowerPC & Intel)

**Chapter 5**  
Connections

## INSTALLING KDJ500 SOFTWARE UNDER XP

This chapter explains each of the steps in the KDJ500 software installer to allow you to proceed through the installation more efficiently.

### STEP 1:

- Insert the software CD into your computer's CD-ROM drive. If the software auto-install feature does not work, do the following:
  1. Click **Start** to open the Start Menu.
  2. Click **Run** to open a command dialog box.
  3. Type **D:\setup** (where "D" designates your computer's CD-ROM drive).
  4. Click **OK** to start the installation program.

### STEP 2:

- The first window that requires you to respond is the Installer Language select window. In this window, choose the language the installer will use.



### STEP 3:

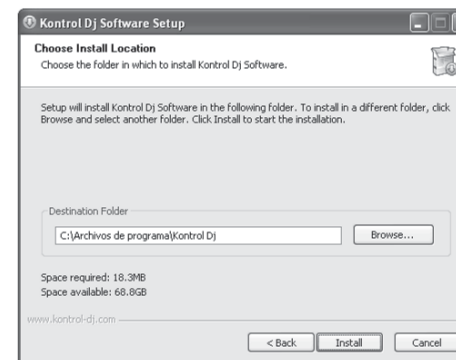
- The "Kontrol Dj Software Setup" dialog box will appear. Click [Next] to continue the installation.



## INSTALLING KDJ500 SOFTWARE UNDER XP

### STEP 4:

- The "Choose Install Location" window allows you to change the location where the software will be installed. You should select the default location ("C:\Archivos de programa\Kontrol Dj"). To install in a different folder, click [Browse] and select another folder. Click [Install] to start the installation.



### STEP 5:

- During the install, a dialog will appear showing the installation details.
- The "Completing the Kontrol Dj Software Setup Wizard" will appear once the software has been installed. Your computer must be restarted in order to complete the installation. Select "Reboot now" and click [Finish] to end the installation.



This chapter covers the installation details for the USB driver for the Windows XP operating system. USB problems will be experienced if an incorrect driver is installed.

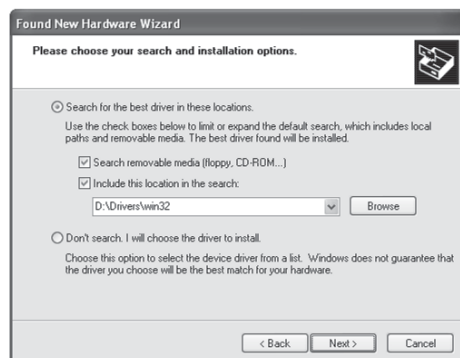
### STEP 1:

- Connect the KDJ500 to the PC via USB cable. The first time a new KDJ500 controller is plugged into a Windows XP system, a dialog box will appear indicating that the system has found a new hardware device.
- After this dialog appear, the Found New Hardware Wizard dialog box is displayed. Select “Install from a list or specific location (Advanced)” and click [Next] to continue the installation.

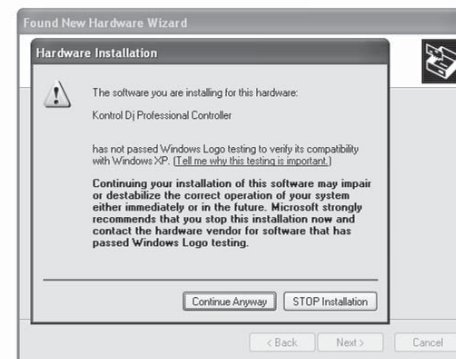


### STEP 2:

- Make sure that “Search for the best driver...” is selected. Unselect “Search removable media” and check “Include this location in the search”. Browse to the CD-ROM Drivers/win32 folder and click [Next].



- During the install, a dialog will pop up stating, “The software you are installing for this hardware...has not passed Windows Logo testing...” click [Continue Anyway].



### STEP 3:

- The “Completing the Found New Hardware Wizard” will appear once the KDJ500 USB drivers has been installed. Click [Finish] to end the installation.

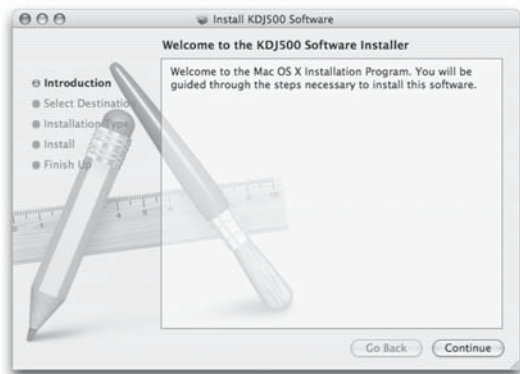


## INSTALLING KDJ500 SOFTWARE UNDER MAC OSX

This chapter covers the installation details for the KDJ500 software for the Mac OSX (PowerPc & Intel) operating system.

### STEP 1:

- Insert the software CD into your computer's CD-ROM drive. The software is available in installer package (.pkg) format. Run the installer by double clicking on the setup\_OSX.pkg icon.
- Click [Continue] to proceed with the installation and follow the instructions on screen.



### STEP 2:

- When the installation is complete click the [Close] button.

## INSTALLING USB DRIVERS UNDER MAC OSX

This chapter describes the procedure for installing the Mac OSX USB driver for the KDJ500.

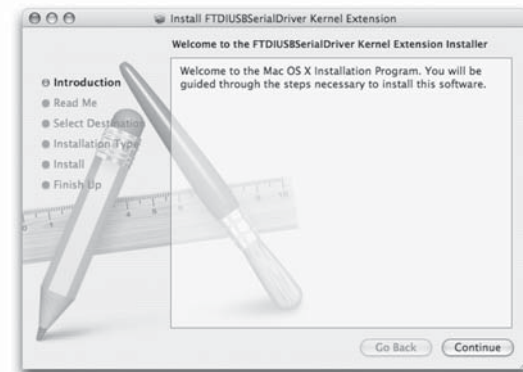
### STEP 1:

- The driver is available in installer package (.pkg) format. The file is located in the "/Drivers/OSX" folder in the software CD. Run the installer by double clicking on the KDJ500USBDriver.pkg icon.

#### Note:

If you are using a Mac with an Intel processor then use the driver located in the "/Drivers/OSX Intel" folder in the software CD. It requires Mac OSX 10.4 (Tiger) or later.

- Click [Continue] to proceed with the installation and follow the instructions on screen.



### STEP 2:

- When the installation is complete, reboot the computer.

**USB CONNECTIONS:**

Use a USB cable to connect the KDJ500 to the USB connector of your computer.

The KDJ500 receives power from the USB port on your computer. It's recommended that you either plug directly into the USB port on the computer, or use a powered USB hub.

**MIDI CONNECTIONS:**

Use a MIDI cable to connect the KDJ500 to your MIDI hardware.

MIDI messages received at the MIDI IN connector are mixed with KDJ500 data at the MIDI OUT/USB port. For example this allows MIDI messages from an external hardware to be received by an application on your computer, and allows the KDJ500 to be used as a USB-MIDI interface.

# USING THE KDJ500

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**In This Part**

**Chapter 6**  
KDJ500 midi quick user guide

**Chapter 7**  
Using Konverter (Windows and Mac OSX)

**Chapter 8**  
Using KDJ500 with Traktor Dj Studio 2.X under Windows

**Chapter 9**  
Using KDJ500 with Traktor Dj Studio 3.X under Windows

**Chapter 10**  
Using KDJ500 with VirtualDj under Windows

**Chapter 11**  
Using KDJ500 with MixVibes 5 & 6 Pro under Windows

**Chapter 12**  
Using KDJ500 with Traktor Dj Studio 2.X under Mac OSX

**Chapter 13**  
Using KDJ500 with Traktor Dj Studio 3.X under Mac OSX

**Chapter 14**  
Using KDJ500 with DJ-1800 under Mac OSX



# KDJ500 MIDI QUICK USER GUIDE

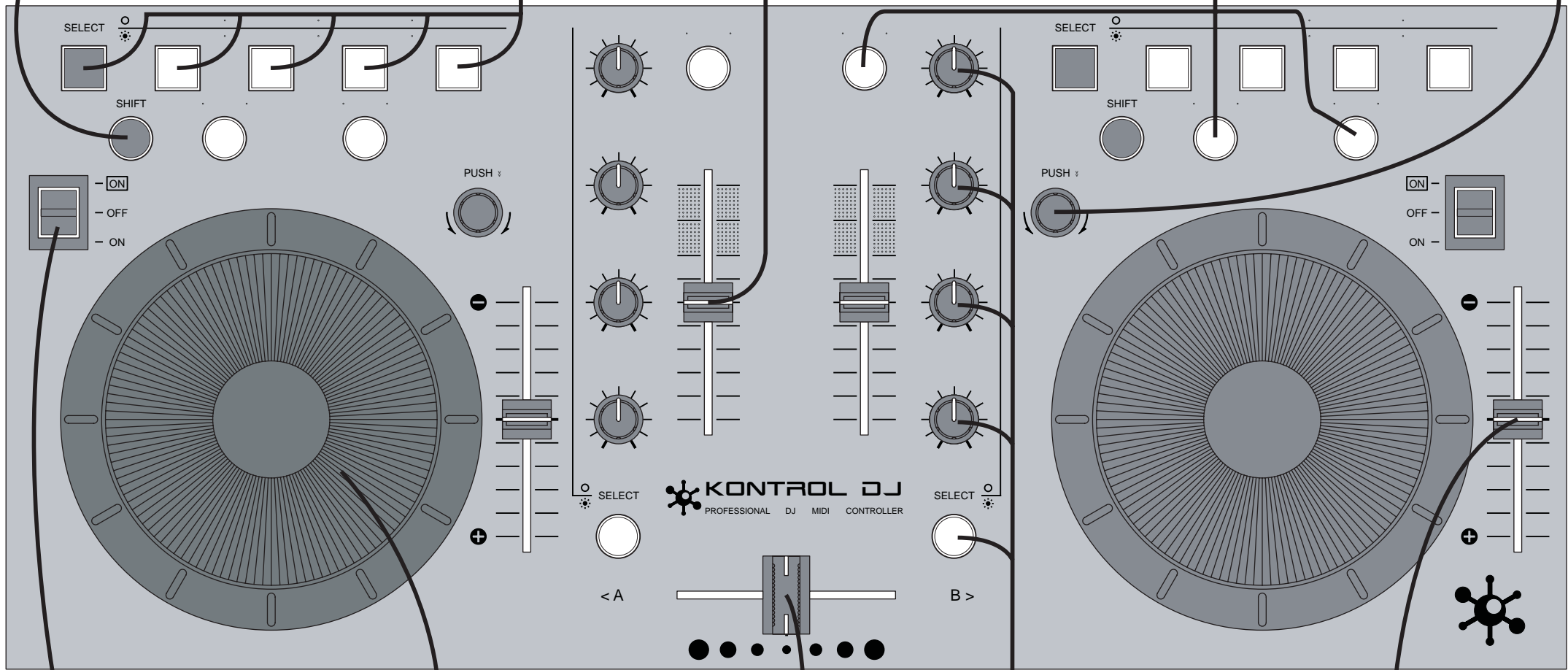
- The [shift] button is used to send additional midi messages from all realtime controls.
- Hold down the [shift] button while operate with other controls to send additional midi messages.
- The left side [shift] button operate over the controls placed on the left of dashed line. The right side [shift] button operate over the controls placed on the right of dashed line.

- Press these buttons to send midi messages.
- These buttons can be switched to control one of two different midi message groups -"upper" and "down"- via the [select] button.
- The upper midi message group are selected when the buttons are lit, and the down midi message group are selected when the buttons are blinking.
- Hold down the [shift] button while press these buttons to send a third midi message independently of their -"upper" or "down"- state.

- Move the fader to send midi messages.
- Hold down the [shift] button while move the fader to send additional midi messages.

- Press these buttons to send midi messages.
- Hold down the [shift] button while press these buttons to send additional midi messages.

- Turn the push encoder to send midi messages. Hold down the [shift] button while turn the push encoder to send additional midi messages.
- Press the push encoder to send a midi message. Hold down the [shift] button while press the push encoder to send additional midi message.



- Press the lever towards you (on position) to send a midi message; release it and it returns to the center position (off position).
- Press the lever away from you to lock it in position and send a midi message.
- Hold down the [shift] button while turn on the lever to send additional midi message.

- Turn the jog dial to send midi messages.
- Hold down the [shift] button while turn the jog dial to send additional midi messages.

- Move the crossfader to send midi messages.
- Hold down the [shift] button while move the crossfader to send additional midi messages.

- Turn these knobs to send midi messages.
- These knobs can be switched to control one of two different midi message groups ("upper" and "down") via the [select] button.
- The upper midi message group are selected when the [select] button is lit, and the down midi message group are selected when the [select] button is blinking. If the [select] button is out then knobs don't send midi messages.
- Hold down the [shift] button while turn the knobs to send additional midi messages independently of their ("upper" or "down") state.

- Move the fader to send midi messages.
- Hold down the [shift] button while move the fader to send additional midi messages.

## USING KONVERTER (WINDOWS AND MAC OSX)

Konverter is a program that translates the incoming USB messages from the KDJ500 controller to MIDI and/or KEYBOARD SHORTCUTS. It's a fully realtime multithread application for maximum efficiency.

Konverter has some built-in memory templates that let's you to work with a lot of mixing programs quickly and easily. Also you can make your own templates, they are written in xml format for easy editing purposes. You can change the templates in realtime within the need of reinitialize the program.

Generally it won't be necessary to write a custom template to handle a midi controllable mixing program due to the fact that nowadays almost of all them have a "MIDI learn" feature that makes it easy to assign the real hardware controls (buttons, faders, etc.) of the KDJ500 to the on-screen virtual ones. Anyway if you want or need to write your own template consult the "Konverter Templates Programming Guide" appendix.

You can modify some parameters of the KDJ500 controller from the Konverter user interface like enable/disable the midi merger function, enable/disable the double resolution of jogs (...more/less sensitivity of the jogs), set the sensitivity of the jogs (soft <-> hard), set the release jog command delay or reduce the resolution of the level faders (...useful for volume tricks).

It's very important to understand how the jogs of the KDJ500 works: When you start the movement of the jogs then an "on jog start" midi/keyboard message is appended to the first midi/keyboard message sent by the controller (back or forth) after that if you continue moving the jog some midi/keyboard messages are sent (back&forth messages), when you stop moving the jog then an "on jog stop" midi/keyboard message is sent.

### Note:

The "on jog stop" midi/keyboard message is fired by a internal hardware timer of the KDJ500. This time can be set in Konverter. This feature is named "Release jog command delay (ms.)". If the time is low (below 20 ms.) then it's probably that if you move the jog slowly the "on jog stop" midi/keyboard message is sent a lot of times while you change the direction of the movement. For scratching purposes this time should be set to a relative high value, for pitch bend purposes it's better to set it low.

## USING KONVERTER (WINDOWS AND MAC OSX)

### KONVERTER QUICK USER GUIDE:

The screenshot shows the Konverter v0.68X application window. It has a top section for 'Input - Output' with dropdown menus for 'USB device' (set to 'Kontrol DJ Professional Controller') and 'Midi device' (set to 'Kontrol DJ Midi Out: Port 1'), and 'Start' and 'Stop' buttons. Below is a 'Settings' section with a 'Template' dropdown (set to 'Traktor Dj Studio 3.X.X') and a 'Load' button. Under 'Advance Settings', there are checkboxes for 'Enable midi merger' (checked), 'Enable double resolution of jogs' (unchecked), and 'Reduce resolution of level faders' (unchecked). There is a slider for 'Jogs sensitivity' (set to 0) and a numeric input for 'Release jog command delay (ms)' (set to 34).

Press the [start] button to initiate the process.

Press the [stop] button to end the process.

Enable/Disable the midi merger function of the KDJ500 hardware.

Enable/Disable the double resolution of the jogs (72 or 36 commands per cycle respectively).

Reduce the resolution of the lever faders by a factor of 10.

Select the Kontrol Dj device connected to the computer from the usb dropdown menu.

Select the midi out device used for sending midi data from the midi dropdown menu.

Select the memory template from the pull-down list.

Press the [Load] to load a custom made (user) template.

Set the release jog command delay in milliseconds (valid values from 0 to 99).

Set the jogs sensitivity. 0 is equivalent to soft and 10 is equivalent to hard.

## 1 Install the latest software

**NOTE: Do not connect the Kontrol Dj controller until after the software is installed.** Install the KDJ500 software onto your pc using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive and follow the on-screen instructions. If not on-screen menu appears, use Explorer to find and execute the CD-ROM executable file setup.exe.

## 2 Configure USB communications

Install the usb driver on your pc. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the PC via USB cable.
2. A dialog box will appear indicating that the system has found a new hardware device. After this the Found New Hardware Wizard dialog box is displayed. Select "Install from a list or specific location (Advanced)" and click [Next] button.
3. Check the box marked "Include this location in the search". Browse to the CD-ROM "\Drivers\win32" folder and click [Next] button.
4. During the install, a dialog will pop up stating, "The software you are installing for this hardware...has not passed Windows Logo testing..." click [Continue Anyway].
5. Click [Finish] to end the installation.

## 3 Configure Konverter

Open the Konverter program and configure it to work properly with Traktor 2.X Dj Studio.

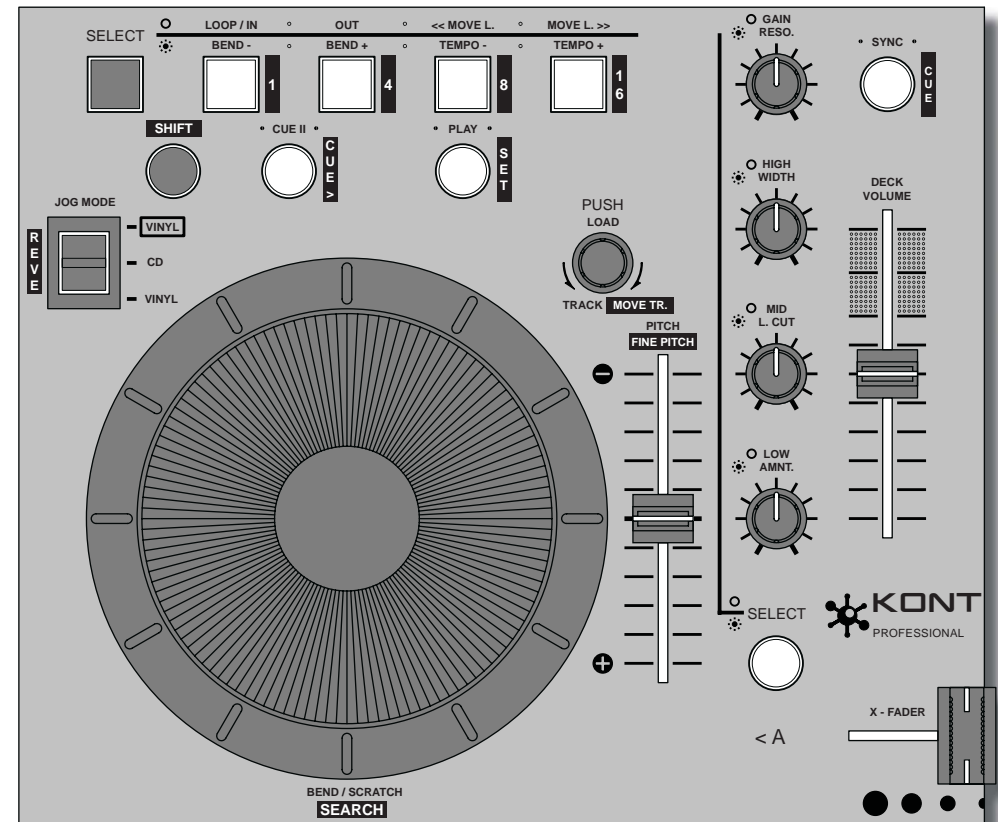
1. To start the Konverter program, double click on the icon installed on the desktop or select Start > Programs > Kontrol Dj > Konverter.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "Kontrol Dj Midi Out: Port 1" from the midi device pull-down list.
4. Choose "Traktor Dj Studio 2.X" from the template memory pull-down list.
5. Press the [Start] button.

## 4 Configure Traktor 2.X Dj Studio

Open the Traktor 2.X Dj Studio program and configure it to work properly with the KDJ500.

1. Start the software by clicking on the program icon from the Start menu.
2. Open the Setup Dialog by pressing the [Setup] button in the Head Panel.
3. Select the MIDI tab by pressing the [MIDI] button.
4. Active "Kontrol Dj Midi In: Port 1" from the Interfaces list by double click on it.
5. Load the default preset file (kdj\_traktor2\_settings\_win32.tks) Kontrol Dj by pressing the [Load] button. The file is located in the "\Kontrol Dj\Software\Konverter\Users\Traktor 2.X" folder.
6. Press the [OK] button.

### • Functions controlled from the Kontrol Dj:



## 1 Install the latest software

**NOTE: Do not connect the Kontrol Dj controller until after the software is installed.** Install the KDJ500 software onto your pc using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive and follow the on-screen instructions. If not on-screen menu appears, use Explorer to find and execute the CD-ROM executable file setup.exe.

## 2 Configure USB communications

Install the usb driver on your pc. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the PC via USB cable.
2. A dialog box will appear indicating that the system has found a new hardware device. After this the Found New Hardware Wizard dialog box is displayed. Select "Install from a list or specific location (Advanced)" and click [Next] button.
3. Check the box marked "Include this location in the search". Browse to the CD-ROM "\Drivers\win32" folder and click [Next] button.
4. During the install, a dialog will pop up stating, "The software you are installing for this hardware...has not passed Windows Logo testing..." click [Continue Anyway].
5. Click [Finish] to end the installation.

## 3 Configure Konverter

Open the Konverter program and configure it to work properly with Traktor 3.X Dj Studio.

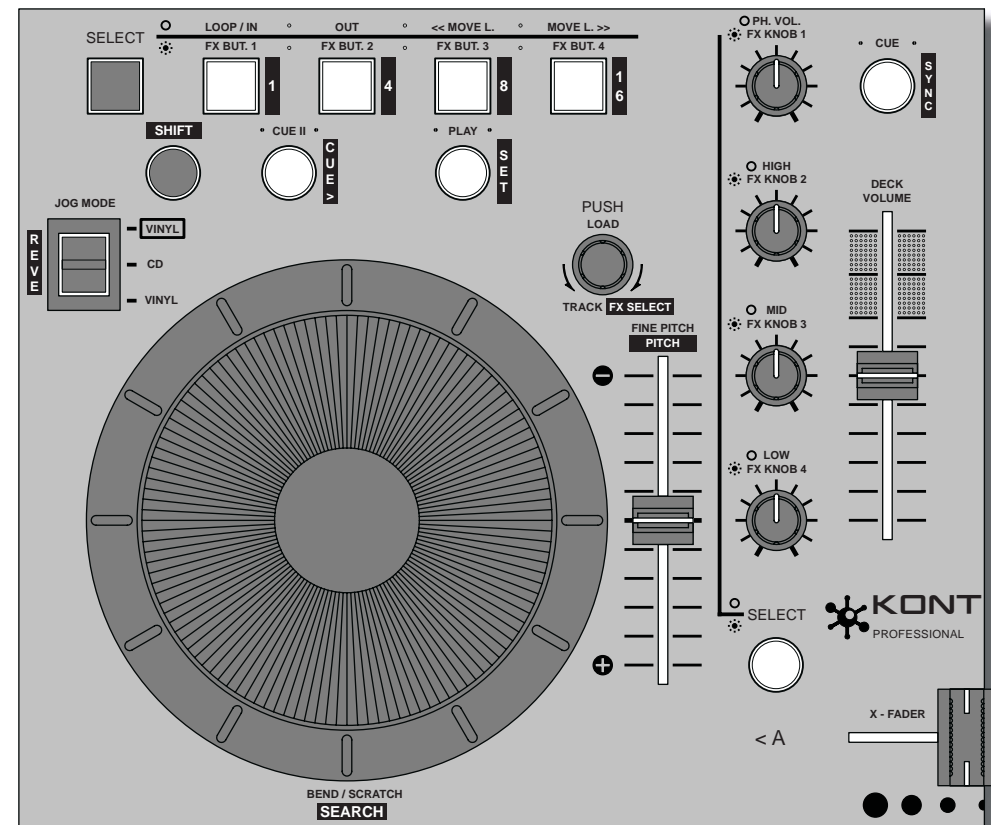
1. To start the Konverter program, double click on the icon installed on the desktop or select Start > Programs > Kontrol Dj > Konverter.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "Kontrol Dj Midi Out: Port 1" from the midi device pull-down list.
4. Choose "Traktor Dj Studio 3.X" from the template memory pull-down list.
5. Press the [Start] button.

## 4 Configure Traktor 3.X Dj Studio

Open the Traktor 3.X Dj Studio program and configure it to work properly with the KDJ500.

1. Start the software by clicking on the program icon from the Start menu.
2. Open the Preferences dialog by pressing the [Preferences] button in the Header.
3. Select Hotkey & MIDI Setup > MIDI Interfaces.
4. Under the "Active" column, double click the field next to the "Kontrol Dj Midi In: Port 1" midi device. Make sure that there is an "X" in the "Active" box.
5. Select Hotkey & MIDI Setup > MIDI Setup.
6. Load the default preset file (kdj\_traktor3\_settings.tks) by pressing the [Load] button. The file is located in the "\Kontrol Dj\Software\Konverter\Users\Traktor 3\" folder.
7. Press the [OK] button.

### • Functions controlled from the Kontrol Dj:



## 1 Install the latest software

**NOTE: Do not connect the Kontrol Dj controller until after the software is installed.** Install the KDJ500 software onto your pc using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive and follow the on-screen instructions. If not on-screen menu appears, use Explorer to find and execute the CD-ROM executable file setup.exe.

## 2 Configure USB communications

Install the usb driver on your pc. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the PC via USB cable.
2. A dialog box will appear indicating that the system has found a new hardware device. After this the Found New Hardware Wizard dialog box is displayed. Select "Install from a list or specific location (Advanced)" and click [Next] button.
3. Check the box marked "Include this location in the search". Browse to the CD-ROM "\Drivers\win32\" folder and click [Next] button.
4. During the install, a dialog will pop up stating, "The software you are installing for this hardware...has not passed Windows Logo testing..." click [Continue Anyway].
5. Click [Finish] to end the installation.

## 3 Configure Konverter

Open the Konverter program and configure it to work properly with VirtualDj.

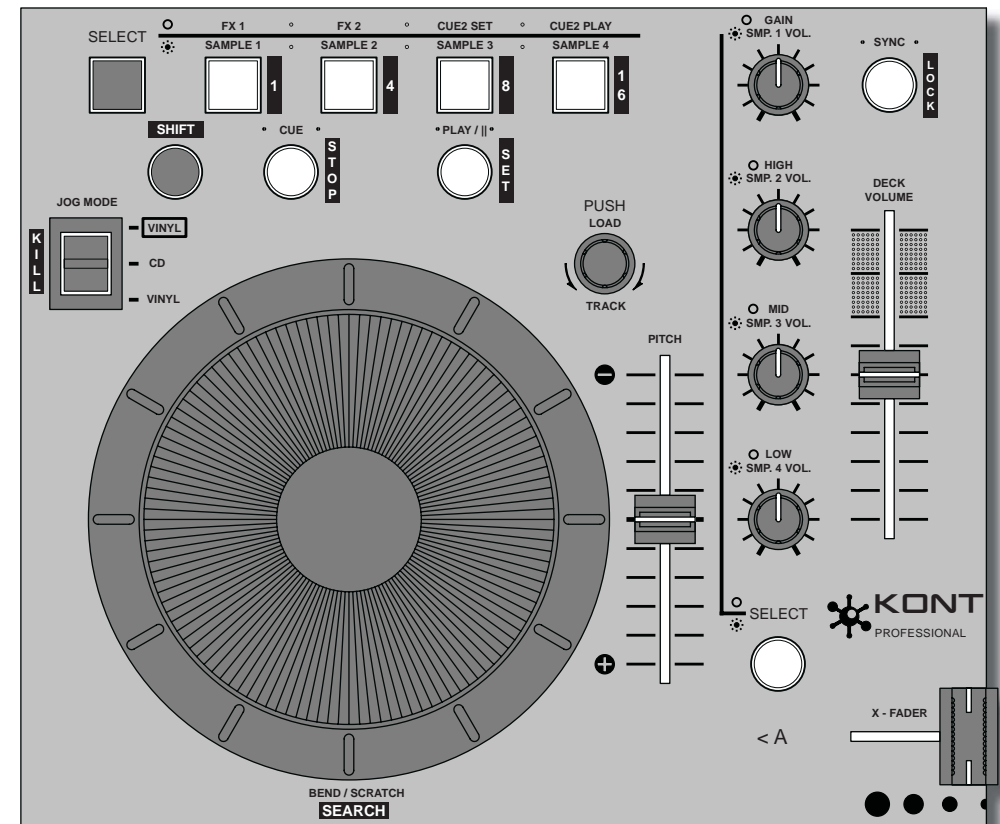
1. To start the Konverter program, double click on the icon installed on the desktop or select Start > Programs > Kontrol Dj > Konverter.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "Kontrol Dj Midi Out: Port 1" from the midi device pull-down list.
4. Choose "VirtualDj" from the template memory pull-down list.
5. Press the [Start] button.

## 4 Configure VirtualDj

Open the VirtualDj program and configure it to work properly with the KDJ500.

1. Copy the default preset file (shortcuts.xml) in the VirtualDj installation folder. The file is located in the "Kontrol Dj)\Software\Konverter\Users\VirtualDj\" folder.
2. Start the software by clicking on the program icon from the Start menu.
3. Open the Configurations Dialog by pressing the [Config] button located at the top of the screen.
4. Choose the "Remote Control" tab.
5. Enable the "Midi" checkbox from the Midi groupbox.
6. Press the [OK] button.

### • Functions controlled from the Kontrol Dj:



## 1 Install the latest software

**NOTE: Do not connect the Kontrol Dj controller until after the software is installed.** Install the KDJ500 software onto your pc using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive and follow the on-screen instructions. If not on-screen menu appears, use Explorer to find and execute the CD-ROM executable file setup.exe.

## 2 Configure USB communications

Install the usb driver on your pc. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the PC via USB cable.
2. A dialog box will appear indicating that the system has found a new hardware device. After this the Found New Hardware Wizard dialog box is displayed. Select "Install from a list or specific location (Advanced)" and click [Next] button.
3. Check the box marked "Include this location in the search". Browse to the CD-ROM "\Drivers\win32\" folder and click [Next] button.
4. During the install, a dialog will pop up stating, "The software you are installing for this hardware...has not passed Windows Logo testing..." click [Continue Anyway].
5. Click [Finish] to end the installation.

## 3 Configure Konverter

Open the Konverter program and configure it to work properly with MixVibes 5 & 6 Pro.

1. To start the Konverter program, double click on the icon installed on the desktop or select Start > Programs > Kontrol Dj > Konverter.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "Kontrol Dj Midi Out: Port 1" from the midi device pull-down list.
4. Choose "MixVibes Pro" from the template memory pull-down list.
5. Press the [Start] button.

## 4 Configure MixVibes 5 & 6 Pro

Open the MixVibes 5 & 6 Pro program and configure it to work properly with the KDJ500.

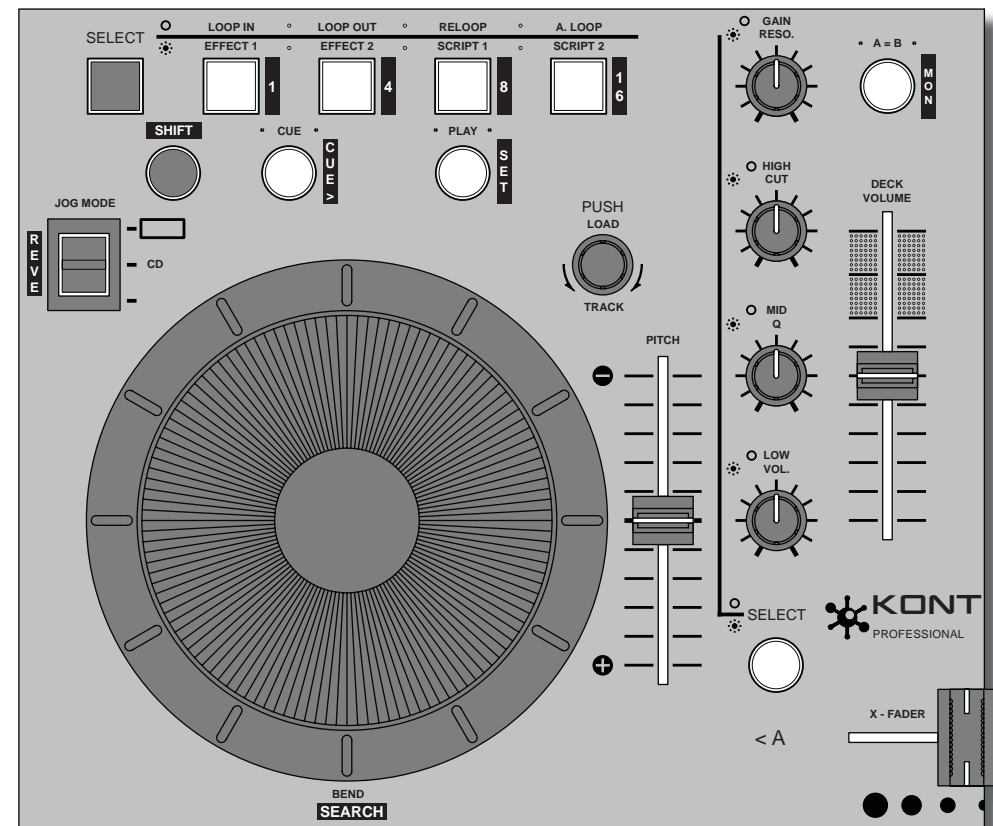
1. Copy the default preset file (kdj\_mixvibes5\_settings.vmd) in your MixVibes 5 Pro installation folder. The file is located in the "\Kontrol Dj\Software\Konverter\Users\MixVibes 5 Pro Ex\" folder.

**NOTE: If you are using MixVibes 6 Pro then copy the default preset file (midi.ini) in your MixVibes 6 Pro "\MIDI\" installation folder. The file is located in the "\Kontrol Dj\Software\Konverter\Users\MixVibes 6 Pro\" folder.**

2. Start the software by clicking on the program icon from the Start menu.
3. Open the Midi Dialog by selecting File > Options > Midi.
4. Enable the "Driver Midi" checkbox and select "Kontrol Dj Midi In: Port 1" from the pull-down list.
5. Write "kdj\_mixvibes5\_settings.vmd" in the "Config File" inputbox.

**NOTE: If you are using MixVibes 6 Pro write "midi.ini" in the "Config File" inputbox.**

6. Press the [OK] button and restart the MixVibes Pro program.



## 1 Install the latest software

Install the KDJ500 software onto your mac using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive. Run the installer by double clicking on the setup\_OSX.pkg icon and follow the instructions on screen.

## 2 Configure USB communications

Install the usb driver on your Mac. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the Mac via USB cable.
2. Run the installer by double clicking on the KDJ500USBDriver.dmg icon. The file is located in the "/Drivers/OSX/" folder in the software CD.  
**NOTE: If you are using a Mac with an Intel processor then use the driver located in the "/Drivers/OSX Intel/" folder in the software CD. It requires Mac OSX 10.4 (Tiger) or later.**
3. Follow the instructions on screen.
4. When the installation is complete, reboot the computer.

## 3 Configure Konverter

Open the Konverter program and configure it to work properly with Traktor Dj Studio 2.X.

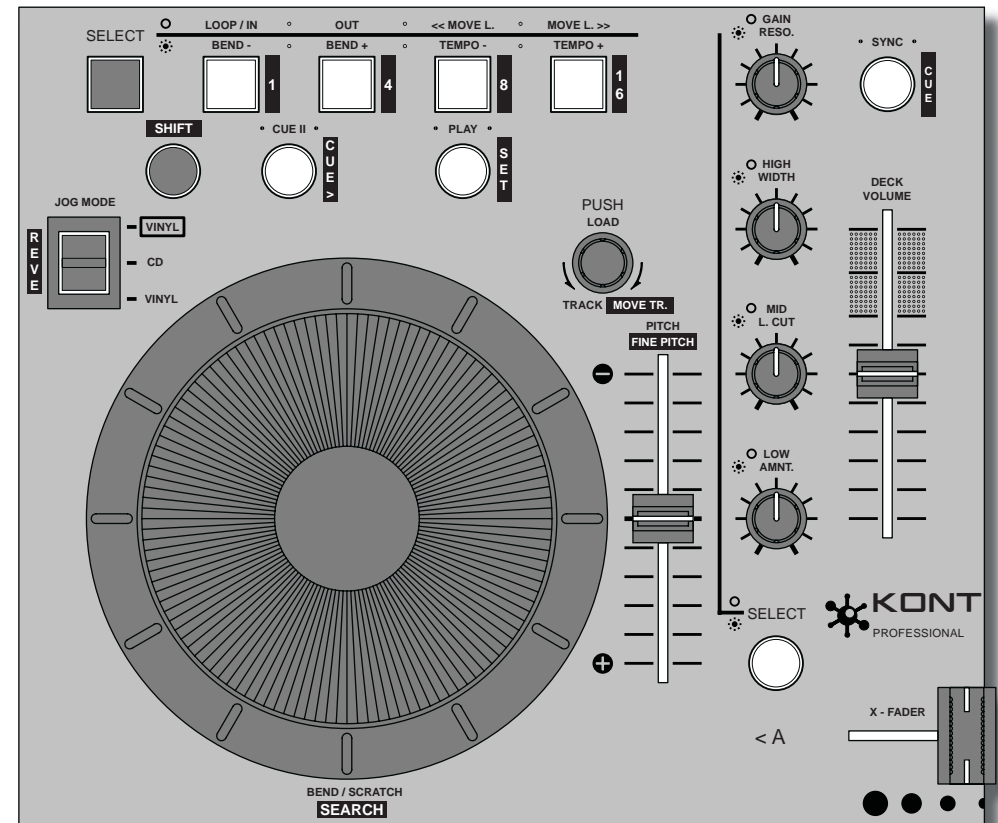
1. To start the Konverter program, double click on the icon program. The Konverter program is located in the "/Applications/Kontrol Dj/Software/Konverter/" folder.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "Kontrol Dj Midi Out: Port 1" from the midi device pull-down list.
4. Choose "Traktor Dj Studio 2.X" from the template memory pull-down list.
5. Press the [Start] button.

## 4 Configure Traktor 2.X Dj Studio

Open the Traktor 2.X Dj Studio program and configure it to work properly with the KDJ500.

1. Start the software by double clicking on the program icon.
2. Open the Setup Dialog by pressing the [Setup] button in the Head Panel.
3. Select the MIDI tab by pressing the [MIDI] button.
4. Active "Kontrol Dj Midi In: Port 1" from the Interfaces list by double click on it.
5. Load the default preset file (kdj\_traktor2\_settings\_OSX.tks) by pressing the [Load] button. The file is located in the "/Applications/Kontrol Dj/Software/Konverter/Users/Traktor 2.X/" folder.
6. Press the [OK] button.

### • Functions controlled from the Kontrol Dj:



## 1 Install the latest software

Install the KDJ500 software onto your mac using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive. Run the installer by double clicking on the setup\_OSX.pkg icon and follow the instructions on screen.

## 2 Configure USB communications

Install the usb driver on your Mac. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the Mac via USB cable.
2. Run the installer by double clicking on the KDJ500USBDriver.dmg icon. The file is located in the "/Drivers/OSX/" folder in the software CD.

**NOTE: If you are using a Mac with an Intel processor then use the driver located in the "/Drivers/OSX Intel/" folder in the software CD. It requires Mac OSX 10.4 (Tiger) or later.**

3. Follow the instructions on screen.
4. When the installation is complete, reboot the computer.

## 3 Configure MIDI IAC driver

Configure the MIDI IAC driver to work properly with Konverter.

1. Run the Audio Midi Setup program. The program is located in the "/Applications/Utilities/" folder.
2. Click Midi Setup Panel.
3. Enable the IAC driver (Inter-Application Communication Driver).

## 4 Configure Konverter

Open the Konverter program and configure it to work properly with Traktor Dj Studio 3.X.

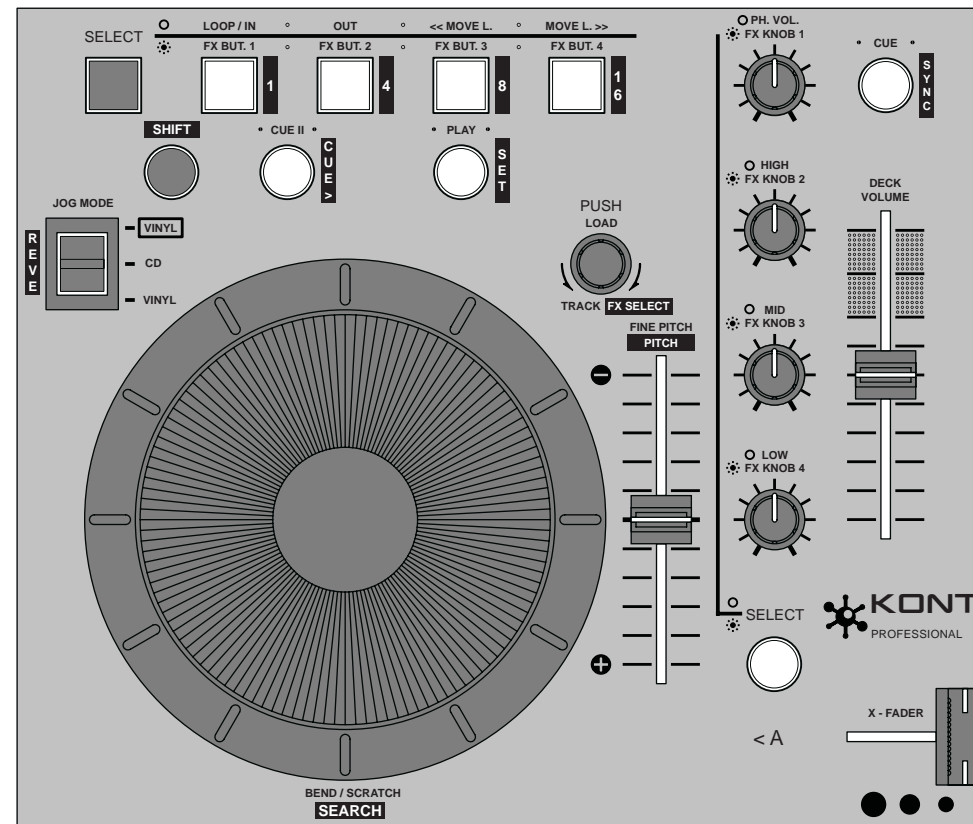
1. To start the Konverter program, double click on the icon program. The Konverter program is located in the "/Applications/Kontrol Dj/Software/Konverter/" folder.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "IAC Driver 'Bus 1'" from the midi device pull-down list.
4. Choose "Traktor Dj Studio 3.X" from the template memory pull-down list.
5. Press the [Start] button.

## 5 Configure Traktor 3.X Dj Studio

Open the Traktor 3.X Dj Studio program and configure it to work properly with the KDJ500.

1. Start the software by double clicking on the program icon.
2. Open the Preferences dialog by pressing the [Preferences] button in the Header.
3. Select Hotkey & MIDI Setup > MIDI Interfaces.
4. Under the "Active" column, double click the field next to the "IAC Driver 'Bus 1'" midi device. Make sure that there is an "X" in the "Active" box.
5. Select Hotkey & MIDI Setup > MIDI Setup.
6. Load the default preset file (kdj\_traktor3\_settings.tks) by pressing the [Load] button. The file is located in the "/Applications/Kontrol Dj/Software/Konverter/Users/Traktor 3/" folder.
7. Press the [OK] button.

### • Functions controlled from the Kontrol Dj:



## 1 Install the latest software

Install the KDJ500 software onto your mac using the included CD-ROM or download the software from [www.kontrol-dj.com](http://www.kontrol-dj.com).

If installing from a CD-ROM, place the CD-ROM into the drive. Run the installer by double clicking on the setup\_OSX.pkg icon and follow the instructions on screen.

## 2 Configure USB communications

Install the usb driver on your Mac. The driver is included on the CD-ROM supplied with the controller, also you can download it from [www.kontrol-dj.com](http://www.kontrol-dj.com).

1. Connect KDJ500 to the Mac via USB cable.
2. Run the installer by double clicking on the KDJ500USBDriver.dmg icon. The file is located in the "/Drivers/OSX/" folder in the software CD.
- NOTE: If you are using a Mac with an Intel processor then use the driver located in the "/Drivers/OSX Intel/" folder in the software CD. It requires Mac OSX 10.4 (Tiger) or later.**
3. Follow the instructions on screen.
4. When the installation is complete, reboot the computer.

## 3 Configure Konverter

Open the Konverter program and configure it to work properly with DJ-1800.

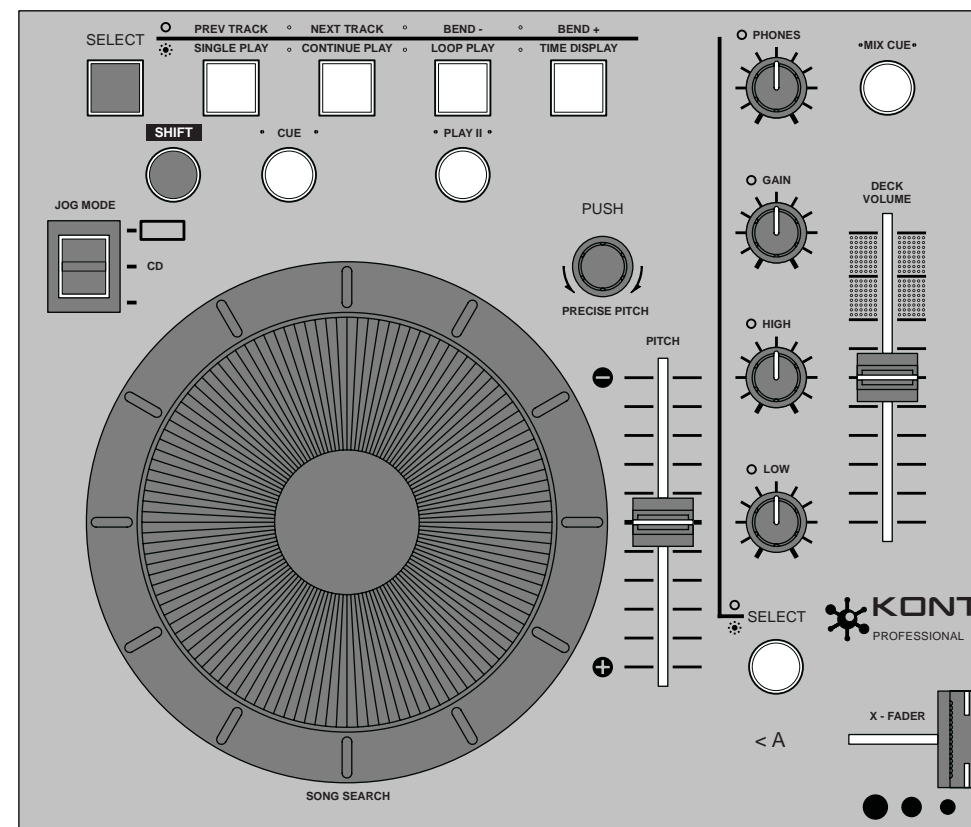
1. To start the Konverter program, double click on the icon program. The Konverter program is located in the "/Applications/Kontrol Dj/Software/Konverter" folder.
2. Choose "Kontrol Dj controller" from the usb device pull-down list.
3. Choose "Kontrol Dj Midi Out: Port 1" from the midi device pull-down list.
4. Choose "None" from the template memory pull-down list.
5. Press the [Start] button.

## 4 Open DJ-1800

Open the DJ-1800 program.

1. Start the software by double clicking on the program icon.

### • Functions controlled from the Kontrol Dj:



# APPENDIX

P A R T



## In This Part

### Chapter 15

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## KONVERTER TEMPLATES PROGRAMMING GUIDE

### INTRODUCTION:

This document provides information on customizing the Konverter template files. You might want to customize a template file if you need to create a template for a program that is not included by default in the memory templates provided with Konverter.

You can find some example templates in the Konverter installation folder. The template files are located in the “\Kontrol Dj\Software\Konverter\Users\” folder. To create a new template file you can use the “null\_template.xml” as a starting point. However it’s recommended to change the parameters of a working template rather than creating a new one from scratch.

You will need a little of programming experience in XML and a text/xml editor. You will need to know also a few things about the MIDI protocol.

### BASICS:

The best explanation is to see an example of source code for a button in a xml template file:

```
<control reserved_id="3" name="play (L)">
  <action what="on_press"
    send_midi_message="yes"
    send_keyboard_message="no"
    midi_message_for_bank1="90107F"
    midi_message_for_bank2="90107F"
    midi_message_with_shift="90117F"
    keyboard_message_for_bank1="P"
    keyboard_message_for_bank2="P"
    keyboard_message_with_shift="S"

  />
  .
  .
  .
</control>
```

- Every control start and end with the tag syntax <control></control>. The attribute “reserved\_id” should not be changed. The attribute “name” is the name of the control, it’s only used for info purposes and can be changed freely. In our example you can see that we are dealing with the play button of the left side of the KDJ500.

- Controls send midi/keyboard messages in response to actions. There are various type of actions (on\_press, on\_release, on\_encoder\_start, on\_encoder\_stop, on\_turn\_right, on\_turn\_left, on\_increment and on\_decrement) and they are fixed for every control. In the case of a button there are only two possible actions (on\_press and on\_release). Actions start and end with the tag syntax <action... />.
- The action element contains all the necessary attributes to send midi/keyboards messages. These attributes are the only ones that should be modified if you want to customize a template.
  - **send\_midi\_message**, set this attribute to "yes" is you want to send midi messages or set it to "no" is you don't want to send midi messages.
  - **send\_keyboard\_message**, set this attribute to "yes" is you want to send keyboard messages or set it to "no" is you don't want to send keyboard messages.
  - **midi\_message\_for\_bank1**, this attribute contains the midi message for the bank1 (in our example when the hardware button of the KDJ500 is lit) in hexadecimal format.
  - **midi\_message\_for\_bank2**, this attribute contains the midi message for the bank2 (in our example when the hardware button of the KDJ500 is blinking) in hexadecimal format.
  - **midi\_message\_with\_shift**, this attribute contains the midi message with the shift button active (in our example when the [shift] hardware button of the KDJ500 is holding down and the play button is pressed) in hexadecimal format.
  - **keyboard\_message\_for\_bank1**, this attribute contains the keyboard message for the bank1 (in our example when the hardware button of the KDJ500 is lit).
  - **keyboard\_message\_for\_bank2**, this attribute contains the keyboard message for the bank2 (in our example when the hardware button of the KDJ500 is blinking).
  - **keyboard\_message\_with\_shift**, this attribute contains the keyboard message with the shift button active (in our example when the [shift] hardware button of the KDJ500 is holding down and the play button is pressed).

**MIDI MESSAGES:**

The more important point is how to understand a midi message. If you see the code of a xml template you will find that the midi messages are blocks of 6 digits XXXXXX in hexadecimal format. Divide these digits in groups of 2,

XX . XX . XX  
(1<sup>o</sup>) (2<sup>o</sup>) (3<sup>o</sup>)

- The first group indicates if the midi message is a NOTE CHANGE (90) or a CONTROL CHANGE (B0) command.
- The second group indicates the NOTE NUMBER or the CONTROL CHANGE NUMBER, valid numbers are in the range 00 - 7F what is equivalent to 0 - 127 in decimal format.
- The third group indicates the NOTE VALUE or CONTROL CHANGE VALUE, one more time, valid values are in the range 00 - 7F. In the case of NOTE VALUE a value of (00) is equivalent to a "note off" and a value of (7F) is equivalent to a "note on".

**EXAMPLES:**

- 900100** - Sends a Note off (note number 1).
- 907F7F** - Sends a Note on (note number 127).
- B00164** - Sends a Control Change number 1 with the value 64.

**KEYBOARD MESSAGES (Windows only):**

Keyboard messages can be considered as block of characters. Characters are sent as written with the exception of the following characters:

- '!' This character send an ALT keystroke, therefore the keyboard message "This is text!a" would send the keys "This is text" and then press "ALT+a".
- '+' This character send a SHIFT keystroke, therefore the keyboard message "Hell+o" would send the keys "Hello". The keyboard message "!!+a" would send the keys "ALT+SHIFT+a".

- ‘^’ This character send a CONTROL keystroke, therefore the keyboard message “^!a” would send the keys “CTRL+ALT+a”.
- ‘#’ This character send a Windows keystroke, therefore the keyboard message “#r” would send the keys “Win+r”.

Certain special keys can be sent and should be enclosed in braces:

KEYS	RESULTING KEYPRESS
{!}	!
{#}	#
{+}	+
{^}	^
{}	{
{}}	}
{SPACE}	SPACE
{ENTER}	ENTER
{ALT}	ALT
{BACKSPACE}	BACKSPACE
{DELETE}	DELETE
{UP}	Cursor up
{DOWN}	Cursor down
{LEFT}	Cursor left
{RIGHT}	Cursor right
{HOME}	HOME
{END}	END
{ESCAPE}	ESCAPE
{INSERT}	INS
{PGUP}	PageUp
{PGDN}	PageDown
{F1} - {F12}	Function keys
{TAB}	TAB
{PRINTSCREEN}	Print Screen key
{LWIN}	Left Windows key
{RWIN}	Right Windows key
{NUMLOCK on}	NUMLOCK (on/off/toggle)
{CAPSLOCK off}	CAPSLOCK (on/off/toggle)
{SCROLLLOCK toggle}	SCROLLLOCK (on/off/toggle)

KEYS	RESULTING KEYPRESS
{CTRLBREAK}	Ctrl+Break
{PAUSE}	PAUSE
{NUMPAD0} - {NUMPAD9}	Numpad digits
{NUMPADMULT}	Numpad Multiply
{NUMPADADD}	Numpad Add
{NUMPADSUB}	Numpad Subtract
{NUMPADDIV}	Numpad Divide
{NUMPADDOT}	Numpad period
{NUMPADENTER}	Enter key on the numpad
{APPSKEY}	Windows App key
{LALT}	Left ALT key
{RALT}	Right ALT key
{LCTRL}	Left CTRL key
{RCTRL}	Right CTRL key
{LSHIFT}	Left Shift key
{RSHIFT}	Right Shift key
{ALTDOWN}	Holds the ALT key down until {ALTUP} is sent
{SHIFTDOWN}	Holds the SHIFT key down until {SHIFTUP} is sent
{CTRLDOWN}	Holds the CTRL key down until {CTRLUP} is sent
{ASC nnnn}	Send the ALT+nnnn key combination

**EXAMPLES:**

- “{ASC 065}” - Send the ASCII value A.
- “{DEL 4}” - Presses the DEL key 4 times.
- “{a down}” - Holds the A key down.
- “{a up}” - Releases the A key.
- “{NumLock on}” - Turns the NumLock key on.

See Windows Help for a complete list of keyboard shortcuts.

**MIDI CONTROL CHANGE MESSAGES**

CC#	(HEX)	DEFINITION
000	(00)	Bank Select
001	(01)	Modulation
002	(02)	Breath Controller
003	(03)	Undefined
004	(04)	Foot Controller
005	(05)	Portamento
006	(06)	Data Entry
007	(07)	Channel Volume
008	(08)	Balance
009	(09)	Undefined
010	(0A)	Pan
011	(0B)	Expression
012	(0C)	Effect Control 1
013	(0D)	Effect Control 2
016	(10)	General Purpose Controller #1
017	(11)	General Purpose Controller #2
018	(12)	General Purpose Controller #3
019	(13)	General Purpose Controller #4
020-031	(14)-(1F)	Undefined
032-063	(20)-(3F)	LSB Controllers (0-31)
064	(40)	Hold 1 (Damper Pedal, Sustain)
065	(41)	Portamento on/off
066	(42)	Sostenuto on/off
067	(43)	Soft Pedal on/off
068	(44)	Legato FootSwitch
069	(45)	Hold 2
070	(46)	Sound Controller 1 (Sound Variation)
071	(47)	Sound Controller 2 (Resonance)
072	(48)	Sound Controller 3 (Release Time)
073	(49)	Sound Controller 4 (Attack Time)
074	(4A)	Sound Controller 5 (Brightness)

**MIDI CONTROL CHANGE MESSAGES**

CC#	(HEX)	DEFINITION
075	(4B)	Sound Controller 6 (Decay Time)
076	(4C)	Sound Controller 7 (Vibrato Rate)
077	(4D)	Sound Controller 8 (Vibrato Depth)
078	(4E)	Sound Controller 9 (Vibrato Delay)
079	(4F)	Sound Controller 10
080	(50)	General Purpose Controller #5
081	(51)	General Purpose Controller #6
082	(52)	General Purpose Controller #7
083	(53)	General Purpose Controller #8
084	(54)	Portamento Control
085-090	(55)-(5A)	Undefined
091	(5B)	Effects 1 Depth (Reverb Send Level)
092	(5C)	Effects 2 Depth (Tremolo Depth)
093	(5D)	Effects 3 Depth (Chorus Send Level)
094	(5E)	Effects 4 Depth (Celeste Depth)
095	(5F)	Effects 5 Depth (Phase Depth)
096	(60)	Data Entry +1
097	(61)	Data Entry -1
098	(62)	Non-Registered Parameter Number LSB
099	(63)	Non-Registered Parameter Number MSB
100	(64)	Registered Parameter Number LSB
101	(65)	Registered Parameter Number MSB
102-119	(65)-(77)	Undefined
120	(78)	All Sound Off
121	(79)	Reset All Controllers
122	(7A)	Local Controller on/off
123	(7B)	All Notes Off
124	(7C)	Omni mode off
125	(7D)	Omni mode on
126	(7E)	Monophonic Mode
127	(7F)	Polyphonic Mode

Note	No.	(Hex)	Note	No.	(Hex)	Note	No.	(Hex)	Note	No.	(Hex)
C-1	0	(00)	G#1	32	(20)	E4	64	(40)	C7	96	(60)
C#-1	1	(01)	A1	33	(21)	F4	65	(41)	C#7	97	(61)
D-1	2	(02)	A#1	34	(22)	F#4	66	(42)	D7	98	(62)
D#-1	3	(03)	B1	35	(23)	G4	67	(43)	D#7	99	(63)
E-1	4	(04)	C2	36	(24)	G#4	68	(44)	E7	100	(64)
F-1	5	(05)	C#2	37	(25)	A4	69	(45)	F7	101	(65)
F#-1	6	(06)	D2	38	(26)	A#4	70	(46)	F#7	102	(66)
G-1	7	(07)	D#2	39	(27)	B4	71	(47)	G7	103	(67)
G#-1	8	(08)	E2	40	(28)	C5	72	(48)	G#7	104	(68)
A-1	9	(09)	F2	41	(29)	C#5	73	(49)	A7	105	(69)
A#-1	10	(0A)	F#2	42	(2A)	D5	74	(4A)	A#7	106	(6A)
B-1	11	(0B)	G2	43	(2B)	D#5	75	(4B)	B7	107	(6B)
C0	12	(0C)	G#2	44	(2C)	E5	76	(4C)	C8	108	(6C)
C#0	13	(0D)	A2	45	(2D)	F5	77	(4D)	C#8	109	(6D)
D0	14	(0E)	A#2	46	(2E)	F#5	78	(4E)	D8	110	(6E)
D#0	15	(0F)	B2	47	(2F)	G5	79	(4F)	D#8	111	(6F)
E0	16	(10)	C3	48	(30)	G#5	80	(50)	E8	112	(70)
F0	17	(11)	C#3	49	(31)	A5	81	(51)	F8	113	(71)
F#0	18	(12)	D3	50	(32)	A#5	82	(52)	F#8	114	(72)
G0	19	(13)	D#3	51	(33)	B5	83	(53)	G8	115	(73)
G#0	20	(14)	E3	52	(34)	C6	84	(54)	G#8	116	(74)
A0	21	(15)	F3	53	(35)	C#6	85	(55)	A8	117	(75)
A#0	22	(16)	F#3	54	(36)	D6	86	(56)	A#8	118	(76)
B0	23	(17)	G3	55	(37)	D#6	87	(57)	B8	119	(77)
C1	24	(18)	G#3	56	(38)	E6	88	(58)	C9	120	(78)
C#1	25	(19)	A3	57	(39)	F6	89	(59)	C#9	121	(79)
D1	26	(1A)	A#3	58	(3A)	F#6	90	(5A)	D9	122	(7A)
D#1	27	(1B)	B3	59	(3B)	G6	91	(5B)	D#9	123	(7B)
E1	28	(1C)	C4	60	(3C)	G#6	92	(5C)	E9	124	(7C)
F1	29	(1D)	C#4	61	(3D)	A6	93	(5D)	F9	125	(7D)
F#1	30	(1E)	D4	62	(3E)	A#6	94	(5E)	F#9	126	(7E)
G1	31	(1F)	D#4	63	(3F)	B6	95	(5F)	G9	127	(7F)

The KDJ500 Software Development Kit (SDK) is a programming package that allows software developers to quickly and easily write applications for the KDJ500.

The SDK is the tool that programmers use to communicate with the KDJ500 controller through the USB port. The SDK includes an extensive documentation that explains how to use it, some example programs and a set of C++ base classes (KDJKernel and KDJExtended) which provide a common API (Application Programming Interface) for realtime input/output communication with KDJ500 devices across Linux, Macintosh OS X, and Windows operating systems. This SDK significantly simplifies the process of interacting with the KDJ500 controller.

It was designed with the following goals:

- Object oriented C++ design.
- Simple, common API across all supported platforms.
- Only one header file and one source file for easy inclusion in programming projects.
- Kontrol Dj devices enumeration.

**NOTE:**

The KDJ500 Software Development Kit (SDK) is located in the “\SDK\” folder in the CD-ROM supplied with the controller. You can also find the SDK on the web at [www.kontrol-dj.com](http://www.kontrol-dj.com).

## SPECIFICATIONS

### ❑ Input / Output ports:

- MIDI in ( 5 - pin DIN type plug )
- MIDI out ( 5 - pin DIN type plug )
- USB in / out ( USB 1.1 and USB 2.0 compatible )

### ❑ Controllers:

- 8 Rotary dials, 6 of them with center click (potentiometers made by PANASONIC)
- 1 Crossfader 45 mm. of travel (potentiometer made by ALPHA)
- 4 Faders 60 mm. of travel (potentiometers made by ALPS)
- 20 Buttons, 14 of them high output illuminated (switches made by MEC)
- 2 Jogs dials (encoders made by ALPS)
- 2 Infinitely variable push encoders (push encoders made by ALPS)
- 2 Levers (paddle switches made by APEM)

### ❑ Useful features:

- All controls are realtime
- All controls fully assignable to midi controller numbers or midi note
- All controls fully assignable midi channel out
- Fully customizable through front panel overlay templates

### ❑ MIDI data:

- MIDI control number
- Note on / off

### ❑ USB data:

- Public domain protocol
- Open source USB data protocol with SDK (Software Development Kit) and drivers for Windows, Mac (PowerPc & Intel) and Linux

### ❑ Power:

- Self powered through the USB port. Power consumption 500 mA typical

### ❑ Case:

- Strong metal case
- Included brackets for 19" rack mounting
- Compact size 400 mm. (W) x 170 mm. (D) x 45 mm. (H)
- Weight 2,5 kg.

## WARRANTY

Kontrol Dj provides one (1) year of warranty, from the date of purchase, on the hardware of this product with respect defects in material and workmanship under normal use and service.

Kontrol Dj entire liability shall be limited to: (a) repair or replace the hardware, provided that the hardware is returned to the point of purchase or such other place as Kontrol Dj may direct, with a copy of the sales receipt, or (b) reimbursement of the purchase price after deduction of a reasonable compensation for use.

This warranty will be void if the product is handled, modified, changed or repaired contrary to the instructions given by Kontrol Dj. The warranty does not extend to defects resulting from normal wear and tear. The warranty shall not cover defects resulting from misuse, neglect or improper use in compliance with the instructions in the user or service manuals.

The software provided with this product is "as is". No warranties are given with respect to the software of the product.

Kontrol DJ warranty is nontransferable and is limited to the original purchaser.

This warranty gives you specific legal rights, and you may have other rights which vary under local laws.

How to obtain warranty service: Before submitting a warranty claim, we recommend you visit the support section at [www.kontrol-dj.com](http://www.kontrol-dj.com) for technical assistance. In order to obtain warranty service, you must contact Kontrol Dj or the Kontrol Dj dealer where you purchase your product, within the warranty period.

Procedure for claims under the warranty: To make a claim under the warranty, return the defective product in its original shipping carton to Kontrol Dj or dealer from which you purchase the product, postage pre-paid, with the original invoice or sales receipt. The addresses for Kontrol Dj can be found in the documentation accompanying your product and on the web at [www.kontrol-dj.com](http://www.kontrol-dj.com).



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