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Table of contents

2. Quick stort 4 2.1 System requirements 5 2.1.1 Minimal system requirements 5 2.1.2 Recommended system 5 2.2 Instilling Quad and running it for the first time 6 2.2 Connecting the turntables to the soundcard. 8 2.3.1 How to connect. 8 2.3.2 Connection examples 8 2.3.2 Connection examples 8 2.4 How Quad is organized – All features at a glance 13 2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3.1 Preferences 15 3.1.1 Nadio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the input Deck 18 3.2.2 Playing/pousing a song 18 3.2.3 Vave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Settling the play position 21 3.2.7 Controlling more than one Channel by one same input Deck 21 3.2.8 Virtual zero Lack Range 22 3.2.	1. Introduction	4
2.1 System requirements 5 2.1.1 Minimal system requirements 5 2.1.2 Recommended system 5 2.1 Large commended system 5 2.2 Installing Quad and running if for the first time 6 2.3 Connecting the turntables to the soundcard. 8 2.3.2 Connection examples 8 2.4 How Quad is organized - All Features at a glance 13 2.5 Browser / Playing a song 14 2.7 Read the reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening o Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Virtual Zero Lock Range 22 3.2.9 Virtual Zero Lock Range 25 3.3.1 Wacto the Level Meters! 24 3.4 Deding songs 25 3.2.4 Pre-listening or Channel wing headphones 21 3.2.6 Setting the play position 21 3.2.7 Solute Mode vs. Relative Mode 22	2. Quick start	4
2.1.1 Minimal system requirements 5 2.1.1 2 Recommended system 5 2.2 Installing Quad and running if for the first time 6 2.3 Connecting the turntables to the soundcard. 8 2.3.1 How to connect 8 2.3.2 Connection examples 8 2.4 How Quad is organized - All features at a glance 13 2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3. Reference 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Vitual Zero Lock Range 22 3.2.7 Vitual Zero Lock Range 22 3.2.9 Vitual Zero Lock Range 22 3.2.9 Vitual Zero Lock Range 22 3.2.10 Playing real (non-finecode) vinyl records through Quad 24	2.1 System requirements	5
2.1.2 Recommended system	2.1.1 Minimal system requirements	5
2.2 Installing Quad and running it for the first time 6 2.3 Connecting the turntables to the soundcard 8 2.3.1 How to connect 8 2.3.2 Connection examples 8 2.4 How Quad is organized – All features at a glance 13 2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3. Reference 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pousing a song 18 3.2.3 Vave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Absolute Mode vs. Relative Mode 20 3.2.7 Prival Zero Lock Range 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad 24 3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Cases & Current Playlist 26 3.4.1 Loop Sampler 26 3.4.2 Hereister themoly preferences <t< td=""><td>2.1.2 Recommended system</td><td>5</td></t<>	2.1.2 Recommended system	5
2.3 Connecting the turntables to the soundcard. 8 2.3.1 How to connect. 8 2.3.2 Connection examples 8 2.4 How Quad is organized – All features at a glance 13 2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.2.2 General Settings 16 3.2.3 Reference 18 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/anxing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.4 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck. 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range. 22 3.2.1 Watch the Level Meters! 24 3.3 Ananaging songs 25 3.3.4 Leiding ID3/OGG tags. 25 3.3.5 Zet Wirtual Zero Lock Range. 26 3.4.1 L	2.2 Installing Quad and running it for the first time	6
2.3.1 How to connect 8 2.3.2 Connection examples 8 2.4 How Quad is organized – All features at a glance 13 2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3.8 Feference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing provising a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Prefect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 25 3.3.1 Finding songs 25 3.3.2 Editing IDS/OCG tags 25 3.3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Diadpetically sorting songs in the Browser 26 3.4.1 Loop Sampler 26 3.4.	2.3 Connecting the turntables to the soundcard	8
2.3.2 Connection examples 8 2.4 How Quad is organized – All features at a glance 13 2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3. Reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing rout scratching songs 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening o Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.1 Virtual Zero Lock Range 25 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Cases & Current Playlist 26 3.4.1 Loop Sampler 26 3.4.2 Eq	2.3.1 How to connect	8
2.4 How Quad is organized – All features at a glance 13 2.5 Browser / Playing a song 14 2.7 Read the reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.1 Selecting the Input Deck 18 3.2.2 Playing / pausing a song 18 3.2.3 Vave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.1 Playing real (non-timecode) vinyl records through Quad 24 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.3 Linding songs 25 3.4 Cares & Current Playlist 26 3.4 Cares & Current Playlist 26 3.4 Costs der 29 3.5.2 FX Types 30 3.3.3 Recording your mix 34 3.4 Elect	2.3.2 Connection examples	8
2.5 Browser / Playing a song 14 2.6 Previewing a song 14 2.7 Read the reference 15 3. Reference 15 3. I. Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing and scratching songs 18 3.2.2 Nave Display/Cue Points 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.7 Virtual Zero Lock Range 22 3.2.9 Virtual Zero Lock Range 22 3.2.1 Watch the Level Meters! 24 3.3 Ananaging songs 25 3.3.1 Finding songs 25 3.3.2 Alphabetically sorting songs in the Browser 25 3.3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Cates & Current Playlist 26 3.4.1 Loop Sampler 26 3.5 FX: Effects for th	2.4 How Quad is organized – All features at a alance	13
2.6 Previewing a song 14 2.7 Read the reference 15 3. Reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.2 Playing and scratching songs 18 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/ausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.1 Watch the Level Meters! 24 3.2.1 Watch the Level Meters! 24 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.3 Alphabetically sorting songs in the Browser 26 3.4.1 Loop Sampler 26 3.4.2 Equalizing, Filtering 26 3.4.2 Edualizers 27 3.5.2 FX Types 30 3.5.2 FX Types 30 <t< td=""><td>2.5 Browser / Plaving a song</td><td>14</td></t<>	2.5 Browser / Plaving a song	14
2.7 Read the reference 15 3. Reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing /pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.1 Playing real (non-timecode) vinyl records through Quad 24 3.2.1 Watch the Level Meters! 24 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.3 Alphabetically sorting songs in the Browser 26 3.4.1 Loop Sampler 26 3.4.2 Equalizers 27 3.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.7 Nipes <t< td=""><td>2.6 Previewing a song</td><td>14</td></t<>	2.6 Previewing a song	14
3. Reference 15 3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad 24 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Cases & Current Playlist 26 3.4 Cueing, Equalizing, Filtering 26 3.4.1 Loop Sampler 26 3.4.2 Equalizers 27 3.4.3 Filters 27 3.5.2 How to use FX 29 3.5.2 FX Types	2.7 Read the reference	15
3.1 Preferences 15 3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad 24 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Cueing, Equalizing, Filtering 26 3.4.1 Loop Sampler 26 3.4.2 Equalizers 27 3.4.3 Filters 27 3.4.3 Filters 27 3.4.4.2 Equalizers 27 3.4.3 Filters 28 3.5.2 Fit perfects for the mix <td>3. Reference</td> <td>15</td>	3. Reference	15
3.1.1 Audio Card Configuration 16 3.1.2 General Settings 16 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pausing a song 18 3.2.2 Playing/pausing a song 18 3.2.2 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad 24 3.3 Managing songs 25 3.3.1 Finding usongs 25 3.3.2 Editing ID3/OGG tags 25 3.3.4 Cases & Current Playlist 26 3.4 Cueing, Equalizing, Filtering 26 3.4.1 Loop Sampler 26 3.5 FX: Effects for the mix 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7 MIDI. 32 3.7 MIDI Learn 32 3.7 MIDI Learn 33 3.7 A MIDI Control Settings 33	3.1 Preferences	15
3.1.2 General Settings163.2 Playing and scratching songs183.2.1 Selecting the Input Deck183.2.2 Playing/pausing a song183.2.3 Wave Display/Cue Points183.2.4 Pre-listening a Channel using headphones193.2.5 Absolute Mode vs. Relative Mode203.2.6 Setting the play position213.2.7 Controlling more than one Channel by one same Input Deck213.2.8 Perfect tempo-matching using SYNC223.2.9 Virtual Zero Lock Range223.2.10 Playing real (non-timecode) vinyl records through Quad.243.2.11 Watch the Level Meters!243.3.1 Finding songs253.3.2 Editing ID3/OGG tags.253.3.4 Cases & Current Playlist263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters273.4.3 Filters273.5.2 FX Types303.6 Crossfader323.7.3 MIDI Control Settings344. Appendix.354.1 Keyboard Shortcuts353.7.2 MIDI Learn333.7.3 MIDI Control Settings333.7.4 MIDI323.7.2 MIDI Learn353.7.2 MIDI Control Settings354.1 Keyboard Shortcuts354.2 Appendix354.3 Quad Timecode Vinyl Discs36	3.1.1 Audio Card Configuration	16
3.2 Playing and scratching songs 18 3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.10 Playing real (non-timecode) vinyl records through Quad 24 3.2.11 Watch the Level Meters! 24 3.3 Managing songs 25 3.3.1 Finding songs 25 3.3.2 Alphabetically sorting songs in the Browser 25 3.3.4 Loop Sampler 26 3.4.2 Equalizers 27 3.4.3 Filters 28 3.5 FX: Effects for the mix 29 3.5.2 How to use FX 32 3.3 Alphabetically not use FX 32 3.4.3 Filters 32 3.5 TX: Effects for the mix 29 3.5.2 How to use FX 32 3.7 MIDI 32 3.7.3 MIDI Control Settings	3.1.2 General Settings	16
3.2.1 Selecting the Input Deck 18 3.2.2 Playing/pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad 24 3.2.11 Watch the Level Meters! 24 3.3 Managing songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.4 Cases & Current Playlist 26 3.4 Cases & Current Playlist 26 3.4.1 Loop Sampler 26 3.4.2 Equalizers 27 3.5.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.3 MIDI Learn 33 3.8 Recording your mix 34 4. Appendix 35 3.7.2 MIDI Learn 33 3.7.3 MIDI Control	3.2 Plaving and scratching songs	18
3.2.2 Playing/pausing a song 18 3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck. 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad. 24 3.2.11 Watch the Level Meters! 24 3.3 Managing songs 25 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags 25 3.3.4 Lopabatically sorting songs in the Browser 26 3.4.1 Loop Sampler 26 3.4.2 Equalizing, Filtering 26 3.4.2 Equalizing, Siltering 26 3.5 FX: Effects for the mix 29 3.5.2 How to use FX. 29 3.5.2 X: Effects for the mix 29 3.5.2 How to use FX. 29 3.5.7.3 MIDI Learn 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33	3.2.1 Selecting the Input Deck	18
3.2.3 Wave Display/Cue Points 18 3.2.4 Pre-listening a Channel using headphones 19 3.2.5 Absolute Mode vs. Relative Mode 20 3.2.6 Setting the play position 21 3.2.7 Controlling more than one Channel by one same Input Deck 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad. 24 3.3 Managing songs 25 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGC tags. 25 3.3.3 Alphabetically sorting songs in the Browser. 25 3.4 Cases & Current Playlist 26 3.4 Cueing, Equalizing, Filtering 26 3.4.1 Loop Sampler. 26 3.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.2 How to use FX 29 3.5.2 How to use FX 29 3.7.3 MIDI Learn 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.3 MIDI Learn 33 3.8 Recording your mix 34 4. Appendix 35 4. Appendix </td <td>3.2.2 Plavina/pausina a sona</td> <td>18</td>	3.2.2 Plavina/pausina a sona	18
3.2.4 Pre-listening a Channel using headphones193.2.5 Absolute Mode vs. Relative Mode203.2.6 Setting the play position213.2.7 Controlling more than one Channel by one same Input Deck213.2.8 Perfect tempo-matching using SYNC223.2.9 Virtual Zero Lock Range223.2.10 Playing real (non-timecode) vinyl records through Quad243.2.11 Watch the Level Meters!243.3.1 Finding songs253.3.2 Editing ID3/OGG tags253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cuses & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.5 FX: Effects for the mix273.4.3 Filters283.5 FX: Effects for the mix293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.8 Recording your mix344 Appendix354.1 Keyboard Shortcuts354.1 Keyboard Shortcuts354.1 Keyboard Shortcuts354.2 Mouse Button Functions354.3 Quad Timecode Vinyl Discs36	3.2.3 Wave Display/Cue Points	18
3.2.5 Absolute Mode vs. Relative Mode203.2.6 Setting the play position213.2.7 Controlling more than one Channel by one same Input Deck213.2.8 Perfect tempo-matching using SYNC223.2.9 Virtual Zero Lock Range223.2.10 Playing real (non-timecode) vinyl records through Quad243.2.11 Watch the Level Meters!243.3.1 Finding songs253.3.1 Finding lb3/OGG tags.253.3.2 Editing ID3/OGG tags.253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4.1 Loop Sampler.263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 FX Types.303.6 Crossfader323.7.3 MIDI Learn333.7.3 MIDI Control Settings.333.8 Recording your mix.344. Appendix.354.1 Keyboard Shortcuts354.1 Keyboard Shortcuts354.2 Mouse Button Functions.354.3 Quad Timecode Vinyl Discs36	3.2.4 Pre-listening a Channel using headphones	19
3.2.6 Setting the play position213.2.7 Controlling more than one Channel by one same Input Deck.213.2.8 Perfect tempo-matching using SYNC223.2.9 Virtual Zero Lock Range223.2.10 Playing real (non-timecode) vinyl records through Quad.243.2.11 Watch the Level Meters!243.3 Managing songs253.3.1 Finding songs.253.3.2 Editing ID3/OGG tags.253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4.1 Loop Sampler.263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX293.5.2 How to use FX293.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344 Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.2.5 Absolute Mode vs. Relative Mode	20
3.2.7 Controlling more than one Channel by one same Input Deck. 21 3.2.8 Perfect tempo-matching using SYNC 22 3.2.9 Virtual Zero Lock Range 22 3.2.10 Playing real (non-timecode) vinyl records through Quad. 24 3.2.11 Watch the Level Meters! 24 3.3.1 Finding songs 25 3.3.2 Editing ID3/OGG tags. 25 3.3.3 Alphabetically sorting songs in the Browser 25 3.3.4 Cases & Current Playlist 26 3.4.1 Loop Sampler 26 3.4.2 Equalizing, Filtering 26 3.4.3 Filters 28 3.5 FX: Effects for the mix 29 3.5.2 How to use FX. 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.7.3 MIDI Control Settings. 33 3.7.4 Nouse Button Functions. 35 4.1 Keyboard Shortcuts 35 4.3 Quad Timecode Vinyl Discs 36	3.2.6 Setting the play position	21
3.2.8 Perfect tempo-matching using SYNC223.2.9 Virtual Zero Lock Range223.2.10 Playing real (non-timecode) vinyl records through Quad.243.2.11 Watch the Level Meters!243.3 Managing songs253.3.1 Finding songs253.3.2 Editing ID3/OGG tags.253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX.293.5.2 How to use FX.293.7 MIDI323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.8 Recording your mix344. Appendix.354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.2.7 Controlling more than one Channel by one same Input Deck	21
3.2.9 Virtual Zero Lock Range223.2.10 Playing real (non-timecode) vinyl records through Quad243.2.11 Watch the Level Meters!243.3 Managing songs253.3.1 Finding songs253.3.2 Editing ID3/OGG tags253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4.1 Loop Sampler263.4.2 Equalizing, Filtering263.4.3 Filters263.4.5 FX: Effects for the mix273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.2.8 Perfect tempo-matching using SYNC	22
3.2.10 Playing real (non-timecode) vinyl records through Quad.243.2.11 Watch the Level Metersl.243.3 Managing songs253.3.1 Finding songs253.3.2 Editing ID3/OGG tags.253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX.293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344 Appendix354.1 Keyboard Shortcuts354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.2.9 Virtual Zero Lock Range	22
3.2.11 Watch the Level Metersl243.3 Managing songs253.3.1 Finding songs253.3.2 Editing ID3/OGG tags253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI323.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.2.10 Playing real (non-timecode) vinyl records through Quad	24
3.3 Managing songs253.3.1 Finding songs253.3.2 Editing ID3/OGG tags253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters283.5.2 How to use FX293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.3 MIDI333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.2.11 Watch the Level Meters!	24
3.3.1 Finding songs.253.3.2 Editing ID3/OGG tags.253.3.3 Alphabetically sorting songs in the Browser.253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering.263.4.1 Loop Sampler.263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX.293.5.2 How to use FX.293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn.333.8 Recording your mix.344. Appendix.354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.3 Managing songs	25
3.3.2 Editing ID3/OGG tags253.3.3 Alphabetically sorting songs in the Browser253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.3.1 Finding songs	25
3.3.3 Alphabetically sorting songs in the Browser.253.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler.263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX.293.5.2 FX Types303.6 Crossfader323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings.333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.3.2 Editing ID3/OGG tags	25
3.3.4 Cases & Current Playlist263.4 Cueing, Equalizing, Filtering263.4.1 Loop Sampler263.4.2 Equalizers273.4.3 Filters283.5 FX: Effects for the mix293.5.2 How to use FX293.5.2 FX Types303.6 Crossfader323.7 MIDI323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.3 Quad Timecode Vinyl Discs36	3.3.3 Alphabetically sorting songs in the Browser	25
3.4 Cueing, Equalizing, Filtering 26 3.4.1 Loop Sampler. 26 3.4.2 Equalizers 27 3.4.3 Filters 28 3.5 FX: Effects for the mix 29 3.5.2 How to use FX. 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7 MIDI. 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.8 Recording your mix 34 4. Appendix. 35 4.1 Keyboard Shortcuts 35 4.2 Mouse Button Functions. 35 4.3 Quad Timecode Vinyl Discs 36	3.3.4 Cases & Current Playlist	26
3.4.1 Loop Sampler. 26 3.4.2 Equalizers 27 3.4.3 Filters 28 3.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7 MIDI 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.7.3 MIDI Control Settings 33 3.8 Recording your mix 34 4. Appendix 35 4.1 Keyboard Shortcuts 35 4.2 Mouse Button Functions 35 4.3 Quad Timecode Vinyl Discs 36	3.4 Cueing, Equalizing, Filtering	26
3.4.2 Equalizers 27 3.4.3 Filters 28 3.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7 MIDI 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.7.3 MIDI Control Settings 33 3.8 Recording your mix 34 4. Appendix 35 4.1 Keyboard Shortcuts 35 4.2 Mouse Button Functions 35 4.3 Quad Timecode Vinyl Discs 36	3.4.1 Loop Sampler	26
3.4.3 Filters 28 3.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7 MIDI 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.7.3 MIDI Control Settings 33 3.8 Recording your mix 34 4. Appendix 35 4.1 Keyboard Shortcuts 35 4.2 Mouse Button Functions 35 4.3 Quad Timecode Vinyl Discs 36	3.4.2 Equalizers	27
3.5 FX: Effects for the mix 29 3.5.2 How to use FX 29 3.5.2 FX Types 30 3.6 Crossfader 32 3.7 MIDI 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.7.3 MIDI Control Settings 33 3.8 Recording your mix 34 4. Appendix 35 4.1 Keyboard Shortcuts 35 4.2 Mouse Button Functions 35 4.3 Quad Timecode Vinyl Discs 36	3.4.3 Filters	28
3.5.2 How to use FX. 29 3.5.2 FX Types. 30 3.6 Crossfader 32 3.7 MIDI. 32 3.7.1 Selecting the MIDI Input in Quad's Preferences 32 3.7.2 MIDI Learn 33 3.7.3 MIDI Control Settings. 33 3.8 Recording your mix. 34 4. Appendix. 35 4.1 Keyboard Shortcuts 35 4.2 Mouse Button Functions. 35 4.3 Quad Timecode Vinyl Discs 36	3.5 FX: Effects for the mix	29
3.5.2 FX Types303.6 Crossfader323.7 MIDI323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.2 Mouse Button Functions354.3 Quad Timecode Vinyl Discs36	3.5.2 How to use FX	29
3.6 Crossfader323.7 MIDI323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.2 Mouse Button Functions354.3 Quad Timecode Vinyl Discs36	3.5.2 FX Types	30
3.7 MIDI323.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.2 Mouse Button Functions354.3 Quad Timecode Vinyl Discs36	3.6 Crossfader	32
3.7.1 Selecting the MIDI Input in Quad's Preferences323.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.2 Mouse Button Functions354.3 Quad Timecode Vinyl Discs36	3.7 MIDI	32
3.7.2 MIDI Learn333.7.3 MIDI Control Settings333.8 Recording your mix344. Appendix354.1 Keyboard Shortcuts354.2 Mouse Button Functions354.3 Quad Timecode Vinyl Discs36	3.7.1 Selecting the MIDI Input in Quad's Preferences	32
3.7.3 MIDI Control Settings.333.8 Recording your mix.344. Appendix.354.1 Keyboard Shortcuts354.2 Mouse Button Functions.354.3 Quad Timecode Vinyl Discs36	3.7.2 MIDI Learn	33
3.8 Recording your mix	3.7.3 MIDI Control Settings	33
4. Appendix	3.8 Recording your mix	34
4.1 Keyboard Shortcuts	4. Appendix	35
4.2 Mouse Button Functions	4.1 Keyboard Shortcuts	35
4.3 Quad Timecode Vinyl Discs	4.2 Mouse Button Functions	35
	4.3 Quad Timecode Vinyl Discs	36

1. Introduction

Thank you for purchasing Quad! Please take the time to completely read this manual in order not to miss out on the more or less "hidden" features Quad has to offer.

Before we begin, let's take a quick look at the main features of Quad:

- Intelligent, error-insensitive proprietary vinyl-tracking algorithm with highly accurate scratch movement response
- Ultra-precise BPM matching (called "syncing") lets you play 4 tracks simultaneously (BPM must be present as tag in MP3/OGG) (*)
- 4 lightweight timecode discs included, ideal for scratching
- Up to 4 turntables may be connected
- Up to 4 tracks may play simultaneously and may be controlled using 1 or up to 4 turntables
- Internal look-ahead limiters which avoid output distortions
- High-quality filters and equalizers with kill switches
- 5 Loop Samplers one for each Channel, and one on the Main Channel
- Full MIDI Control with any commercial MIDI Controller
- Integrated BPM-synchronized FX (Flanger, Chorus, Delay, ...)
- Customizable interface
- VST Plugins integration (Windows only)

(*) Please note: To fully exploit Quad's features, all of your MP3s/OGGs should contain "BPM" tags. If the MP3s/OGGs BPM value is not stored as tag within the MP3/OGG, Quad will not be able to automatically sync (tempo-match) this MP3/OGG to another MP3/OGG. Nor WAVs nor AIFFs are syncable. A very good free tool for MP3 BPM detection and inserting the BPM as ID3 frames is "Mixmeister BPM Analyzer". Free download at http://www.mixmeister.com/download_freestuff.html.

2. Quick start

First time users: Please read this chapter carefully. It contains primary instructions needed for:

- Installing the Quad software
- Connecting turntables to the computer via your soundcard
- Playing & scratching tunes



2.1 System requirements

2.1.1 Minimal system requirements

For running Quad, all of the following system requirements must be met:

PC:

- Pentium IV 1GHz PC with 512 MB RAM and at least 1 GB of free disk space
- Windows XP or Vista
- ASIO-compatible soundcard with at least 1 (stereo) Line or Phono Input and 2 (stereo) Line Outputs
- 1 turntable
- Adobe Acrobat Reader 5 or better (to read this manual)

Mac:

- Macbook or G5 or better
- OS X 10.4.10 or later
- soundcard with at least 1 (stereo) Line or Phono Input and 2 (stereo) Line Outputs
- 1 turntable

2.1.2 Recommended system

The recommended system for running Quad looks as follows:

PC:

- 1.7 GHz PC with 512 MB RAM and 4GB of free hard disk space (the disk space is needed for saving the mixes see "Recording your mix")
- Windows XP or Vista
- ASIO-compatible soundcard with 2 (stereo) Line or Phono Inputs and 2 (stereo) Line Outputs
- 2 ore more turntables
- A BPM Analyzer Tool (such as Mixmeister BPM Analyzer)
- Adobe Acrobat Reader 5 or better (to read this manual)

Mac:

- MacBook Pro
- OS X 10.4.11 or better
- soundcard with 2 (stereo) Line or Phono Inputs and 2 (stereo) Line Outputs
- 2 or more turntables



2.2 Installing Quad and running it for the first time

Execute QuadSetup.exe (PC) or Quad.mpkg (Mac) and follow the instructions. The Quad Setup will guide you through the installation of Quad. Make sure there are at least 50MB of free hard disk space.

Please note: Avoid running virus-scanners and other startup-applications or regular applications while running Quad. They may interfere with the system for a short time and create "clicks" or "pops" during the mix. The best way to avoid any problems at all is to create a new User Account and to run Quad (without any other applications) in this User Account. Also make sure to turn off/disconnect extra devices such as Wireless Adapters while mixing. Windows Users: Set Power Options "Power Schemes" to "Always On" (this is good for any audio software, not only Quad).

After installation, start Quad.

In Quad's Browser, right-click (Mac: CTRL+left mouse button) **Song Folder** and specify the folder where your MP3's are located. It's a good idea to let Quad scan all the files before proceeding. This way, they will all be stored in the database.

Click on "Preferences" button on the bottom. The following window will show up:

1) Spea	cify your soundcard here!	2) Select number of Channels!
AUDIO CARD COM	NFIGURATION	MISCELLANEOUS
audio device:	ASIO 2.0 - ESI U46DJ	2 Channels 3 Channels 4 Channels
sample rate:	• 44100 Hz 🗢	
audio buffer size:	: 128 samples (6.8 ms Total I/O Latency)	Reset Channel EO & El
	show this device's control panel	Warn before loading new hannel
active midi inputs	In From MIDI Yoke: 1 In From MIDI Yoke: 2 In From MIDI Yoke: 3 In From MIDI Yoke: 4	3) Uncheck (deactivate) DEMO Mode if you
Deck 1 Input Deck 2 Input	L:U46DJ 1/2 / R:U46DJ 1/2 NONE Soft Phono Preamp	MIDI CONTROL Vinyl discs!
Deck 3 Input	NONE \$ Soft Phono Preamp	Load MIDI Control Settings
Deck 4 Input	5) Specify Deck Inputs here!	Save MIDI Control Settings
Chan. 1 Output	NONE	VINYL INPUT SIGNALS XY VIEW
Chan. 2 Output	NONE	XY View is correct (watch the direction!).
Chan. 3 Output	NONE	
Chan. 4 Output	NONE Of Specify Chainer	
		Deck 1 Deck 2 Deck 3 Deck 4
Phones Output	NONE	
Main Output	L:U46DJ 1/2 / R:U46DJ 1/2 4) Specify	/ Main Output here!

The Preferences window



In the Preferences make sure to specify the following:

- 1) Your audio device (PC: Only soundcards with ASIO drivers are allowed).
- 2) Select the **number of Channels** you want to use simultaneously.
- 3) **Demo Mode**: Uncheck (deactivate) DEMO Mode if you bought Quad Timecode vinyl discs, otherwise let it checked (activated). The Demo Mode can only be turned off after putting Quad.lic into the same folder as Quad.exe (Windows) or Quad.app (Mac).
- 4) **Main Output**: Choose your Main Output here, this will in most cases be the first stereo line output of your soundcard.
- 5) (only important if you purchased Quad Timecode Vinyl discs) **Deck Input 1 to 4**: Specify your soundcard's Line or Phono Inputs here. The decks should be connected to these inputs (see 2.3.2 for more information).
- 6) You may also already specify **individual Channel Outputs** for each one of Quad's Channels if you own an external mixer.

If you do not own any Quad Timecode Vinyl discs, please skip to chapter 2.4 now!



2.3 Connecting the turntables to the soundcard

2.3.1 How to connect

- If your USB/Firewire soundcard is not connected, connect it and wait a few seconds before launching Quad.
- Connect each turntable's stereo Phono Out to a corresponding stereo In of the soundcard. Make sure that the left Phono Out of the turntable is connected to the left In of the soundcard and that the right Phono Out of the turntable is connected to the right In of the soundcard! Also connect each turntable's Phono Ground to the soundcard's Ground. When connecting Phono Out to Line Input you'll have to turn on the "Soft Phono Preamp" for that turntable in the Preferences.
- Make sure there is no dust or dirt on the needles. Dust/dirt on the needles may distort the timecode signal so much that it may not be decodable anymore. Also avoid scrapes or scratches on the discs.
- If you own a mixer and do the channel mixing on the mixer, specify NONE as Main Output and NONE as Phones Output. Also specify which channel goes to what output, using Chan. Output 1 to 4.

Please note: Make sure the weight, anti-skating and height of your turntable arm are well adjusted to the cartridge, so you won't wear off the timecode discs unnecessarily. It is important to keep the Timecode Vinyl discs in good condition.

2.3.2 Connection examples

Quad may be used in many ways: You may use it with or without a mixer and use Quad's internal filters, equalizers and FX to alter the sound, or you may just use it as a "conventional" scratch system replacement by just playing between 2 and 4 MP3s/WAVs without processing them and route each of those to a different external mixer channel. It is up to you what features of Quad you like to use and what features you may like to replace by external equipment.

The next 4 pages contain connection examples for different setups:

- The first setup is the simplest one. It is especially suited for home-studios.
- The second setup is a more advanced setup that may be used for home-studios or playing in clubs.
- The third setup is most likely to be used in clubs. It corresponds more or less to a conventional scratch system replacement.
- The last setup contains 4 turntables connected via Phono preamps. It is the most advanced way of using Quad.



2.3.2.1 Using Quad with 1 turntable, no MIDI controller, no mixer

This is the most basic setup for using Quad – well adapted for making mixes at home. It is, more than in any other setup, especially recommended to prepare your MP3s so that they contain the BPM amount as "BPM" ID3 frames. Otherwise it is not really fun to mix with one turntable.



- 1. Connect the USB/FireWire soundcard to your computer. In Quad's Preferences, choose this soundcard.
- 2. Connect the turntable to the soundcard's Input 1/2. Make sure to connect left to left and right to right. In Quad's Preferences, choose Input 1/2 as Deck Input 1. When connecting a turntable with Phono Output (=most turntables) to a Line Input, you need to turn on "Soft Phono Preamp" right to the selected Input. Do not forget to connect the turntable's Phono Ground to the soundcard's Phono Ground.
- 3. Connect soundcard's Line Out 1/2 to the sound system (e.g. your monitor speakers, your HiFi amplifier or an external mixer). In Quad's Preferences, choose Line Out 1/2 as Main Output.
- 4. Connect soundcard's Line Out 3/4 (or any suitable) to your headphones. In Quad's Preferences, choose Line Out 3/4 (or any suitable) as Phones Out.



2.3.2.2 Using Quad with 2 turntables and a MIDI controller, no mixer

In this example, we add one more turntable to the setup. We also add a MIDI Controller to give better control possibilities.



- 1. Connect the USB/FireWire soundcard to your computer. In Quad's Preferences, choose this soundcard.
- 2. Connect turntable 1 to the soundcard's Input 1/2. Make sure to connect left to left and right to right. In Quad's Preferences, choose Input 1/2 as Deck Input 1. When connecting a turntable with Phono Output (=most turntables) to a Line Input, you need to turn on "Soft Phono Preamp" right to the selected Input. Do not forget to connect the turntable's Phono Ground to the soundcard's Phono Ground.
- 3. Connect turntable 2 to the soundcard's Input 3/4. In Quad's Preferences, choose Phono Input 3/4 as Deck Input 2. Same remarks as above.
- 4. Connect soundcard's Line Out 1/2 to the sound system (e.g. your monitor speakers, your HiFi amplifier or an external mixer). In Quad's Preferences, choose Line Out 1/2 as Main Output.
- 5. Connect the MIDI Controller to the computer. In Quad's Preferences choose the MIDI Controller as MIDI Input and MIDI Output.
- 6. Connect soundcard's Line Out 3/4 (or any suitable) to your headphones. In Quad's Preferences, choose Line Out 3/4 (or any suitable) as Phones Out.



2.3.2.3 Using Quad with 2 turntables, a mixer and a MIDI controller

This is probably the best way to use Quad in the club. The DJ brings his laptop, his soundcard and his MIDI controller, connects the soundcard to the club's mixer and connects the club's turntables to his soundcard.



- 1. Connect the USB/FireWire soundcard to your computer. In Quad's Preferences, choose this soundcard.
- Connect turntable 1 to the soundcard's Input 1/2. Make sure to connect left to left and right to right. In Quad's Preferences, choose Input 1/2 as Deck Input 1. When connecting a turntable with Phono Output (=most turntables) to a Line Input, you need to turn on "Soft Phono Preamp" right to the selected Input. Do not forget to connect the turntable's Phono Ground to the soundcard's Phono Ground.
- 3. Connect turntable 2 to the soundcard's Phono Input 3/4. In Quad's Preferences, choose Phono Input 3/4 as Deck Input 2. Same remarks as above.
- 4. Connect soundcard's Line Out 1/2 to the mixer's channel 1 Line In. In Quad's Preferences, choose Line Out 1/2 as Channel 1 Output.
- 5. Connect soundcard's Line Out 3/4 to the mixer's channel 1 Line In. In Quad's Preferences, choose Line Out 3/4 as Channel 2 Output.
- 6. Connect the MIDI Controller to the computer. In Quad's Preferences choose the MIDI Controller as MIDI Input and MIDI Output.
- 7. Connect the headphones to the mixer's headphones output.
- 8. Connect the mixer's Main Out to the sound system.



2.3.2.4 Using Quad with 4 turntables and a mixer

This is the most sophisticated way of using Quad - in most cases you will not need to use 4 decks to control Quad.



- 1. Connect the USB/FireWire soundcard to your computer. In Quad's Preferences, choose this soundcard.
- 2. Connect turntable 1 to a Phono preamp that you route into the soundcard's Line Input 1/2. Make sure to connect left to left and right to right. In Quad's Preferences, choose Line Input 1/2 as Deck Input 1.
- 3. Connect turntable 2 to a Phono preamp that you route into the soundcard's Line Input 3/4. Make sure to connect left to left and right to right. Connect the turntable's Phono Ground to the preamp's Phono Ground. In Quad's Preferences, choose Line Input 3/4 as Deck Input 2.
- 4. Connect turntable 3 to a Phono preamp that you route into the soundcard's Line Input 5/6. Make sure to connect left to left and right to right. Connect the turntable's Phono Ground to the preamp's Phono Ground. In Quad's Preferences, choose Line Input 5/6 as Deck Input 3.
- 5. Connect turntable 4 to a Phono preamp that you route into the soundcard's Line Input 7/8. Make sure to connect left to left and right to right. Connect the turntable's Phono Ground to the preamp's Phono Ground. In Quad's Preferences, choose Line Input 7/8 as Deck Input 4.
- 6. Connect soundcard's Line Out 1/2 to the mixer's channel 1 Line In. In Quad's Preferences, choose Line Out 1/2 as Channel 1 Output.
- 7. Connect soundcard's Line Out 3/4 to the mixer's channel 2 Line In. In Quad's Preferences, choose Line Out 3/4 as Channel 2 Output.



- 8. Connect soundcard's Line Out 5/6 to the mixer's channel 3 Line In. In Quad's Preferences, choose Line Out 5/6 as Channel 3 Output.
- 9. Connect soundcard's Line Out 7/8 to the mixer's channel 4 Line In. In Quad's Preferences, choose Line Out 7/8 as Channel 4 Output.
- 10. Connect the MIDI Controller to the computer. In Quad's Preferences choose the MIDI Controller as MIDI Input and MIDI Output.
- 11. Connect the headphones to the mixer's headphones output.
- 12. Connect the mixer's Main Out to the sound system.

2.4 How Quad is organized – All features at a glance

Quad has most of its features assembled on one user-configurable screen. We invested a great amount of time in making the features as accessible as possible. Please take a look at the following picture to familiarize with the main concepts of Quad:



Quadrunning at a screen resolution of 1280x800 with default Quad wallpaper

- One of Quad's (up to 4) Channels (the other Channel is surrounded by white dashed lines): A Channel is capable of playing a MP3/WAV, equalizing, filtering and even cueing (looping). In the uppermost part you see the Wave Display viewing the actual song's playing waveform (Wave Tracker) and also its whole waveform as overview (Song Overview). You may zoom in and out in the Wave Tracker by pressing left or right mouse buttons while the cursor is over it. The amount of Channels to be used is selected in Quad's Preferences.
- 2) Crossfader: It is used to mix/crossfade between two selectable Channels.



- 3) **Browser**: Browse your tracks and organize them in Cases. The left part of the Browser shows the folders & cases as tree structure. The right part of the Browser shows the tracks with their information (tags & quality).
- 4) Main Channel: Especially useful if you have no external mixer and use your PC as a mixer: All 4 channels are mixed together and routed to the Main Channel. It contains the same EQ and filtering features as the 4 other Channels.
- 5) Quad's **FX** section: Used for applying FX. Contains BPM display.
- 6) **Preview Player**: Allows prelistening of tracks on a selected soundcard output.

2.5 Browser / Playing a song

- If you did not already specify a folder where your MP3s are located, please right-click (Mac: CTRL+left mouse button) **Song Folder** and specify the folder where your songs are located.

Restrict downloads	chromogene - late night works - Track 11.mp3	chromogene	chromogene - lat	145.02
Beatport downloads	chromogene - late night works 10.mp3	chromogene	chromogene - lat	145.02
	Track 1.mp3	chromogene	Track 1	106.67
- Electro_lechno	Track 2.mp3	chromogene	Track 2	94.05
— Minimai	Track 3.mp3	chromogene	Track 3	135.02
Progressive	Track 4.mp3	chromogene	Track 4	124.03
Tech-House	Track 5.mp3	chromogene	Track 5	130.03
- Tech-Trance	Track 6.mp3	chromogene	Track 6	141.02
cd1	Track 7.mp3	chromogene	Track 7	143.98
- chromogene	Track 8.mp3	chromogene	Track 8	144.99
Chromogene - late night worx	Track 9.mp3	chromogene	Track 9	146.02
- chromo_songz	index simps	anonogene	index p	1.0.01
🛱 – dan				
-dave martin mix				
- disco house				
-full force recordings				
gerd's mp3				
🖬 – Hip Hop				
— illmeasures				
Files: 11/261				

Quad's Browser: Drag a song onto the Wave Display to load it!

- Select a song in the Browser by clicking on it and dragging it to any of the 4 Channels' Wave Displays. You may also navigate through the songs using the arrow keys of your keyboard and pressing L to load the song (a window will show up, asking you to press 1, 2, 3 or 4 to select the Channel to load the song onto). The TAB key is used to move between the 2 sections of the Browser and the Search Box.

Already played (or more exactly: loaded) songs are shown in red colour, songs that have been put into a case and not already loaded are shown in yellow/beige colour.

2.6 Previewing a song





Sometimes it is useful to preview (pre-listen) a song on the Phones Output without needing to load it on a Channel first. **To preview a song, double-click it.** The song will then start playing in the Preview Player.

You may stop (pause) the song again by pressing the **D** button in the Preview Player. To continue playing, press that button again.

You may press or be for fast rewind or fast forward. You may also jump around in the song by clicking anywhere in the Preview Player's box showing the title and the play position.

2.7 Read the reference

You have now reached the end of the Quick Start guide. We hope you enjoyed it! You should have been able to successfully play/scratch a song by now. We suggest you to fiddle around a little bit with the EQs, filters, Loop Samplers and FX to get accustomed to Quad's interface. After that, you should read chapter 3 (Reference) carefully to fully understand all features of Quad.

3. Reference

3.1 Preferences

Before using Quad, it is important to configure your system in the Preferences window. Quad's Preferences window contains all options that are not selectable while playing.

			Preferences	
- [AUDIO CARD COM	FIGURATION		MISCELLANEOUS 7
	audio device:	ASIO 2.0 - ESI U46DJ	Test Tone	2 Channels 3 Channels 4 Channels
G	sample rate:	44100 Hz	\$	
	audio buffer size:	288 samples (14.1 ms Total I/O Latency)	\$	Reset Channel EQ & Filter on load
		show this device's control panel		10 arn before loading new song on same Channel
	active midi inputs			
C	5	SB Audio Device	~	
4	2	OUSB Audio Device [2]	~	Colour Selector
	Midi Output:	USB Audio Device	\$	Audio Plugins Manager
	Deck 1 Input	L:U46DJ 1/2 / R:U46DJ 1/2	12 Soft Phono Preamp	MIDI CONTROL SETTINGS
(3	Deck 2 Input	NONE	Soft Phono Preamp	Clear MIDI Control Settings
Ì	Deck 3 Input	NONE	Soft Phono Preamp	Load MIDI Control Settings
	Deck 4 Input	NONE	Soft Phono Preamp	Save MIDI Control Settings
	Chap 1 Output	NONE		VINYL INPUT SIGNALS XY VIEW
	Chan. 1 Output	NONE	•	If problems occur, check for each deck if the signal's
6	Chan. 2 Output	NONE	(17)	XY View is correct (watch the direction!).
4	Chan. 3 Output	NONE	•	
	Chan. 4 Output	NONE	\$	e
				Deck 1 Deck 2 Deck 3 Deck 4
(5	Phones Output	NONE	(21) 💠	
6	Main Output	L:U46DJ 1/2 / R:U46DJ 1/2	\$	GOOD BAD

3.1.1 Audio Card Configuration

This is the section where you define all Audio/MIDI Inputs & Outputs. Please make sure that these are well adjusted to avoid any problems! As a rule of thumb, unused outputs should always be set to NONE.

- Audio Device: Select your ASIO/CoreAudio Driver here. You may also specify Buffer Size (shorter = better scratch response) and sample rate (best settings for sample rate = 44100 Hz). You may press the "Test Tone" button to hear a test tone on the soundcard outputs.
- 2) **MIDI**: Select your MIDI Input Devices and your MIDI Output Device for MIDI Controller feedback.
- 3) **Deck Inputs**: Select your Deck Inputs here. Each deck is connected to one stereo input. On the right you can turn off "Soft Phono Preamp". Do this if you connect a regular turntable with Phono Outputs to a soundcard that has Line Inputs.
- 4) **Channel Outputs**: Select your Channel Outputs here. It is possible to route more than 1 Channel to the same soundcard output, but if the sum of the signals exceeds 0 dB, Quad's internal look-ahead limiters will activate to prevent audible distortions.
- 5) **Phones Output**: selects the headphones stereo output.
- 6) **Main Output**: selects the Main Channel's stereo output.

Please note: Please check twice if you do not use the same stereo output for individual Channels, Phones Output or Main Output unwillingly. If you do not need Phones Output or Main Output (e.g. if you use an external mixer, like in a traditional DJ setup), simply set Phones Output or Main Output to "NONE".

3.1.2 General Settings

- 7) **Channel Selector:** Specify the amount of Channels you want to use in Quad. Each Channel can play one MP3. So if you want to play 4 MP3s simultaneously, you must select 4. For a traditional 2-deck setup with 2 decks and one mixer, select 2.
- 8) **Demo Mode**: uncheck this option if you bought Quad Timecode Vinyls, and want to use Quad as a full version and no longer as a demo version.
- 9) **Reset Filters and EQs on Channel after loading**: If checked, the filters and equalizers are reset to a state where the signal is unprocessed when played.
- 10) Warn before loading new Song if already playing: If checked, Quad will warn you if you try to load a new Song on a Channel already playing another Song.



 Colour Selector: If you want to modify Quad's appearance to your taste, you can change colours here. Almost all user interface colours are modifyable.

		Colour	Selector		×
Application Bac	kground			\$	Copy Paste
		#FF	000000		
red:	00	0	_	_	
green:	00	0		_	
blue:	00	0	_	_	
alpha:	FF			_	
Reset To Defa	ult Colour Sch	neme	Load Scher	ne	Save Scheme

To do so, first select what colour you want to change in the Combo Box on the top and then modify the colour. Alpha should generally be let to maximum. It adjusts to what extend your colour is mixed with the colour of the pixels under it.

"Reset to Default Colour Scheme" button will reset all colours to the initial values. "Load Scheme" & "Save Scheme" let you load and save your colour schemes respectively.

- 12) Audio Plugins Manager (Windows only): If you want to use VST plugins as effects in Quad, you must first tell Quad where these plugins are located. To do so open the Audio Plugins Manager, press the button "Options" and select "Scan for new or updated VST plugins". Then press "+" and select your VST plugins folder.
- 13) **MIDI Control Settings**: If you use more than one MIDI Controller, you can load and save your MIDI Control Settings here. You can also clear the last used MIDI settings using the "Clear" button.
- 14) **Vinyl Inputs Signal XY View:** Check these if somehow you don't seem to get any control signal from the deck. The most important thing is to check the direction of the XY View. The figure should always be more vertical than horizontal. If it is not, then you most likely exchanged left and right. If the figure represents a line, then one channel is not attached or something is wrong with the cable on one channel. If the signal is



jumping around very much, you have many shockwaves coming to the deck or the ground cable is perhaps not well attached to the mixer or soundcard.

3.2 Playing and scratching songs

3.2.1 Selecting the Input Deck



You need to specify for each Channel by what deck (turntable) it is controlled (i.e. its song should be scratched) – this is its "Input Deck". To what soundcard input the Input Deck corresponds is defined in the Preferences. You may use one and the same Input Deck for more than one Channel. In this case, the Control button control will play a role, too. Please see 3.2.7 for more information on controlling more than one Channel with one Input Deck.

3.2.2 Playing/pausing a song



Quad will only allow playing/scratching the song if the Play/Pause button is set to "Play". Click it once to play, click it once more to pause.

3.2.3 Wave Display/Cue Points

Each of the 4 Channels contains a "Wave Display". The Wave Display shows two waveforms: The "Wave Tracker" (playing song waveform at time position) and the "Song Overview" (waveform of whole song). The Wave Display also gives information such as pitch, play position, BPM, song filename. You can press on the time to switch between played time and remaining time.



The Wave Display shows the song's waveforms, information and Cue Points

The information shown by the Wave Display may vary:

- If the BPM of the song is unknown (not present as ID3 frame in the MP3 or of illegal format), Quad will show "**??? BPM**" which means that the BPM of the song is not known. In this case, SYNC feature will not be available and the Loop Sampler will obtain its BPM from the Tap tempo. See 3.5 for more information.
- If you are scratching the record, "Scratch" will be written in the middle.
- If there is no timecode signal, "No Signal" will be written in the middle.

In Relative Mode, you may change the play position (reposition the Song Locator) by clicking anywhere in the Song Overview. In Absolute Mode this is not possible.

Cue Points may be set using one of the buttons **1 2 3 4** in the Wave Display. The Cue Point will be set to the position of the Song Lo<u>ca</u>tor

(time when you hit the button). You will see a bubble with a number appear in the Song Overview. This is your Cue Point. Click on it to jump back to the position where you set it. Please note that jumping to the Cue Point is only possible in Relative Mode since in Absolute Mode the Song Locator is always locked to the position of the needle on the record.

3.2.4 Pre-listening a Channel using headphones

To pre-listen ("monitor" or "cue") a Channel's song being played, press the **Phones** button in the Channel. The Channel's output will be routed to the Phones Output (as selected in the Preferences), mixed together with the Main Output following the ratio set by the **CUE/MAIN** knob in the Main Channel. The Channel's volume fader does not influence the level of the signal on the Phones Output, but the Channel's GAIN does. You may alter the overall Phones Output Level using the Phones fader in the Main Channel. It should be noted that it is not possible to pre-listen the FX, because in the overall routing, the FX are applied behind the Channel's volume fader, but the prelistening is done before the volume fader.





3.2.5 Absolute Mode vs. Relative Mode

In **Absolute Mode** Quad behaves like the Timecode Vinyl disc would be a real vinyl record: Lifting off the turntable's arm and placing the needle to a new position changes the play position in the song. Absolute Mode is especially suited for "normal" mixing of tunes. Exceptionally short-time needle lift-offs, mostly due to physical shocks, dust on the discs or damaged discs, are not considered as wanted needle lift-offs and Quad will continue playing at the actual song position.



In **Relative Mode**, lifting the needle and repositioning it anywhere on the vinyl does not change the play position – Quad continues to play exactly at the position where you last lifted the needle off the record, thus you cannot "jump" in the tune by moving the needle across the disc – you can merely play, rewind, fast forward or scratch the tune using the turntable. To nevertheless jump to a different play position, you may either press the **REWIND** button (to jump to the track's beginning) or click onto the Song Overview in the Channel to reposition the Song Locator (see 3.2.6 for more information). Relative Mode is especially suited for **scratching** since you won't have to use the same position on the vinyl again and again to scratch the same passage in a given tune. If you often scratch, it is strongly advised to use Relative Mode and to always use the same Timecode Vinyl disc for scratching (so only this Timecode Vinyl disc will "suffer").

It is also **highly advised** to use Relative Mode **if more than one Channel are controlled by one same Input Deck** (see 3.2.7 for more information), to avoid any unwanted jumps or skips when changing from one of these Channels to another.

3.2.6 Setting the play position

As previously seen, in **Absolute Mode** the play position is given by the position of the needle on the timecode disc. In Absolute Mode, the needle's position on the Timecode Vinyl disc is the one and only play position reference for the song.

In **Relative Mode**, you may modify the play position by:

- Pressing the **REWIND** button
- Forward/backward spinning of the Timecode Vinyl disc
- Clicking into the Song Overview to reposition the Song Locator
- Clicking one of the 4 Cue Points in the Song Overview



In Relative Mode, click anywhere in the Song Overview or click one of the Cue Points to modify the play position.

3.2.7 Controlling more than one Channel by one same Input Deck

Quad allows controlling (playing and scratching) up to 4 Channels by one single input deck – this makes it possible to mix up to 4 songs using only one turntable. You may also control 2 Channels using Input Deck 1 and two other Channels using Input Deck 2. What Channel is controlled by what Input Deck is up to you (see 3.2.1), but as soon as one Input Deck is assigned to more than one Channel, the **CONTROL** button will play the role of a selector: Since one Input Deck can only control (apply its Vinyl Tracking) to one Channel at once, you will have to specify what Channel the Input Deck should control. This is done using the CONTROL button. When the CONTROL button is pressed on a Channel whose Input Deck is shared among more Channels, the CONTROL button will become highlighted on that Channel and the Input Deck will from now on control the song on the selected Channel. All other Channels using the same Input Deck will from this moment on continue playing their songs at the average speed (see next chapter) they were playing at before the CONTROL button was clicked on the new Channel.

Please note: It is advised to use Relative Mode for Channels that share one Input Deck. In Absolute Mode, the MP3 play position will always jump to the position of the needle on the Timecode Vinyl disc when a Channel's CONTROL button is activated. This may lead to unwanted jumps in time when the control is switched from one Channel back to the previously controlled Channel.



3.2.8 Perfect tempo-matching using SYNC

This is one of Quad's most powerful features. Using the SYNC feature perfect tempo-matching (called "syncing") of up to 4 tracks becomes effortless as never before.

Perfect syncing becomes possible (only for MP3 & OGG) as soon as:

- The MP3/OGG contains the exact BPM (beats per minute) amount in the as tag (see "Please note" in 1. Introduction for more information).
- The BPM do not vary during the entire songs (this is true for most dance tracks).

To sync one track to another:

- 1) Load and play a first MP3/OGG that contains the BPM amount as tag on one Channel. Make sure the BPM Sync Clock **CLOCK** is now highlighted on this Channel (Quad does this for you by always activating **CLOCK** on the Channel you loaded the last track onto). The Channel having the BPM Sync Clock activated provides the BPM for the next (to- be-synced) song. You may vary the pitch (and thus the BPM) of this song before continuing to point 2), but **before you load a track onto the next Channel, wait that the BPM indicator in the Wave Display has become stable. Otherwise, the SYNC will not work when using 2 or more decks.**
- 2) On the next Channel, make sure the **SYNC** button is activated before loading the new MP3/OGG on this Channel (this MP3/OGG must also contain the exact BPM amount as tag).
- 3) Set the pitch to 0 on your turntable: if SYNC is on, when the pitch is set to 0, the new song will be perfectly tempo-matched to the Channel where the BPM Sync Clock was highlighted before loading.
- 4) While the turntable is playing, beat-match the 2 playing songs, without touching the pitch of the turntable.
- 5) You can mix one or 2 more songs following the same rules as stated in 2) and 3).

Please note: When using 2 or more turntables with SYNC, always wait until the BPM indicator is stable (does not change anymore) in the Wave Display of the last played track before loading a new track. This should take approximately 10 seconds. So, as a rule of thumb, always wait 10 seconds after touching the Vinyl or Pitch on your turntable before loading a new track onto the next Channel when using SYNC. This is because Quad uses the average speed of the last played track as tempo-reference and this takes approx. 10 seconds.

3.2.9 Virtual Zero Lock Range

Keeping the turntable pitch at exactly 0% is, strictly speaking, impossible with any existing turntable – the "real" pitch may be -0,001%, +0,001%, but never be exactly 0%. This pitch tolerance is not acceptable when it comes to using



Quad's SYNC feature, since the tempo matching, as seen previously, can only be truly accurate if the pitch stays at **exactly** 0%.

Please note: If you use the SYNC (tempo matching) feature in Quad, make sure to set the Virtual Zero Lock Range to 1% or more.

Therefore, Quad offers the possibility to decide in what pitch range the pitch is considered as exactly 0 – this range is called Virtual Zero Lock Range. The Virtual Zero Lock Range may be adjusted from 0% to 2%.



The Virtual Zero Lock Range knob is located in the Main Channel

If, for instance, the Virtual Zero Lock Range is set to 2%, Quad will consider any pitch on the turntable between -2% and +2% as 0%. Above +2% pitch on the turntable, the resulting pitch (in Quad) will progressively exceed 0%. Below -2% on the turntable, the resulting pitch will progressively go down below 0%. As you may have noticed, incrementing the Virtual Zero Lock Range diminishes the turntable's effective pitch range. That's why it is recommended to use a Virtual Zero Lock Range of 1%. The setting of 2% is in most cases not useful.

A Virtual Zero Lock Range setting of 0% means no altering whatsoever of the input pitch.



Virtual Zero Lock Range at 0% (blue line) and at 2% (orange dashed line)



The Virtual Zero Lock Range feature has one more advantage: If you own an old turntable with some "resting point" at pitch 0, you may have noticed that in this case it is really difficult to adjust the pitch around 0. If you use a Virtual Zero Lock Range of 1%, this "resting point" will not prevent proper mixing anymore, as the pitch will only leave 0% from -1% / +1% on.

Please note: Virtual Zero Lock Range is not applied when scratching, as this would slightly alter the scratch feeling. Quad automatically recognizes when the DJ is scratching and turns off Virtual Zero Lock Range internally as long as the DJ keeps scratching.

3.2.10 Playing real (non-timecode) vinyl records through Quad

It is possible to use Quad to play real vinyl records (or any other audio sources, like CD Players). The advantage of playing records through Quad is that they may be processed through the filters and equalizers.



When using the THRU feature, the Loop Sampler's BPM reference is the FX section's displayed BPM value.

3.2.11 Watch the Level Meters!



When the Level Meters become red, the signal is too hot!

It is important to watch the Level Meters while playing. All Channels, including the Main Channel have Level Meters. As a rule of thumb, any Level Meter's display should not become red – if it does, the OdB limit is surpassed and Quad's internal look-ahead limiters will start working. Although the look-ahead limiters keep the sound audibly undistorted up to a certain extent, they will not avoid distortions if the signal's level becomes far hotter than OdB. Especially increasing the EQ Low Gain leads to very hot signals.

That said, some techno deejays like the sound of look-ahead limiting and deliberately push the signal to obtain a certain pumping effect in the mix.



3.3 Managing songs

3.3.1 Finding songs

If you got thousands of songs, searching them "by hand" takes too much time. For fast work, it is recommended to use Quad's **Find** feature to find a song using any search text. Please note that the text input is case-insensitive.

Find Next

Quad's Find feature saves you precious mixing time

To find a song:

- Click onto the Browser
- Drag the column that contains the text to be found to the first position (for instance if you search in the artists, drag "Artist" column into first place). Quad always searches in the column that comes first.
- Press F on your keyboard or click into the search text box.
- Enter any text fragment and press Enter or click FIND button.
- If the previously entered text fragment was found it will be highlighted.
- To search the next match, press Enter again or click NEXT button.
- Press L to load song.

The search is restricted to the current directory or case (or, to formulate it otherwise: to the files currently listed). If you want to search the whole database, first click at to show the files of the whole database, then start searching.

The files will only be found if they have already been scanned. That's why it makes sense to scan all files after specifying the Song Folder.

3.3.2 Editing ID3/OGG tags

To change one of the following tags (only works for MP3 & OGG at the moment)

Artist, Song, Album, Label, BPM, Year, Genre

right-click a cell in the Browser. A window will appear, prompting you to enter a new value.

3.3.3 Alphabetically sorting songs in the Browser

Songs are automatically alphabetically sorted following the displayed columns. For example, if the first column is *Label*, the second column is *Album* and the third column is *Song*, then the songs are listed by alphabetically sorting *Album*, then *Label* and then *Song*. Try out to see how it works by

moving some columns: Just click on one column, hold it clicked and move it to another position. See below how to sort Cases.

3.3.4 Cases & Current Playlist

A "Case" is a collection of user-selected tracks – just like a DJ case where some favorite vinyl discs are put into.

- To **create** a new Case, right-click **Cases/Playlists** and select "Add Case", then enter the new Case's name and press ENTER.
- To **add some tunes** to the Case, just drag'n'drop them into the previously created Case.
- To **rename** a case, right-click the previously created case and select "Rename Case" from the Pop-Up Menu.
- To **delete** a Case, right-click the previously created Case and select "Delete Case" from the Pop-Up Menu.
- To copy the contents of a Case to the clipboard for use in other applications, right-click the Case and select "Copy to Clipboard". You can afterwards paste the contents as text in Notepad, Word or any other text-application. This is especially useful for the Current Playlist which contains the tunes you played since the last start of Quad.
- To **sort** a Case, move the columns in the order you want to sort, then double-click any column on its top (on the column header).

You can move entries up in the Cases using CTRL+Arrow up/Arrow down. You can delete entries with DEL key or Backspace key.

The **Current Playlist** shows the tracks you have played since the last start of Quad. You can apply the same operations to it as you can apply to Cases (except not adding tunes by drag'n'drop).

3.4 Cueing, Equalizing, Filtering

3.4.1 Loop Sampler



The **Loop Sampler** allows looping (cueing) in the song. To start a loop, first select the **Loop Length** using the **Loop Length Selector**. This will set the Loop Length to the specified Bar Length (for instance 2/1 = 2 Bars, 3/4 = 0.75 Bars). To start the Loop, press the **Cue 1 Button** or **Cue 2 Button** at the desired moment while the song is playing.



In **Cue 1** mode, releasing the Cue 1 button will stop the loop and the song will continue playing at the next logical half-bar position.

Cue 2 mode behaves differently: when pressing the Cue 2 button, the song continues playing "in the background" while you hear the loop. As soon as you release the Cue 2 button, you will hear the song again.

Please note: To obtain really accurate loops for MP3s and OGGs, **the song's tempo must be stored in the tune as tag**. If the BPM tag is not present, the BPM will be obtained from the Tap-Tempo (see FX section). For Audio Thru (playing real vinyl records), the BPM is assumed to be equal to the Tap-Tempo.

After starting the loop, you may still modify the Loop Length using the Loop Length Selector or using the Loop Length Adjust knob to shorten the Loop Length.

Please note: When selecting a new Loop Length using the Loop Length Selector while already looping, the new Loop Length will only be used from the start of the next beat on.

3.4.2 Equalizers



3.4.2.1 Low, Mid and High equalization

Equalizers are part of all normal DJ Mixer. They allow boosting or attenuating low (bass), mid and high (treble) frequencies. Quad offers 3-band equalization with a *parametric* (frequency-adjustable) mid band and *Kill switches*.

The Low, Mid and High EQ knobs allow respectively adjusting bass, mids and treble. The Freq knob (near the Mid knob) allows adjusting the Mid frequency from 100 Hz to 10 kHz. The operating frequencies of Low and High are fixed. Please note that increasing the Low Gain considerably increases the signal's output level and may lead to activation of the look-ahead limiters if the signal's output level exceeds 0dB (see 3.2.11 for more information).



3.4.2.2 Kill Switches

The Low, Mid, High Kill Switches allow to rapidly "kill" (fully attenuate) Low, Mid and High frequency ranges rapidly – more or less the same as if you would turn any of the gain knobs fully counter-clockwise.

3.4.2.3 Useful tips for fast EQ operation using the mouse

- Press CTRL while holding the left mouse button pressed and turning or not turning any of the EQ knobs to reset it at its middle position
- Press Shift while turning any knob to adjust more accurately.

3.4.3 Filters



Apart from its equalizers, Quad also offers two kinds of filters that allow even more radically influencing the frequency spectrum: SVF (State Variable Filter) and X-Filter (Cross Filter).

Please note: While manipulating/turning the Freq (Cutoff Frequency) knob using the mouse, you may set it back to its middle position by pressing CTRL on your keyboard while turning. This is especially useful when using the X-Filter, since it allows you to "deactivate" the filtering really fast by while turning. One more trick is to press Shift on your keyboard while turning the knob using the mouse. This will enhance the turning accuracy as long as you hold the Shift key.

3.4.3.1 SVF (State Variable Filter)

The SVF Filter is a combination of lowpass, bandpass and highpass filters. **Cutoff** adjusts the cutoff frequency of the filter (lowpass cutoff frequency, bandpass cutoff frequency & highpass cutoff frequency at the same time). **Q** adjusts the **resonance** (sometimes also called emphasis) of the filter. The higher the resonance, the "sharper" the filtered sound.

The SVF is especially powerful when its 5 parameters (Cutoff, Resonance, Low, Band, High) are controlled via a MIDI-Controller. Adjusting the SVF's knobs using the mouse is somewhat time-consuming and unpractical.

3.4.3.2 X-Filter

The X-Filter allows a seamless transition from lowpass to highpass using one single cutoff knob: The first (left) half adjustment range of the knob controls a lowpass whereas the second (right) half controls a highpass. The transition from lowpass to highpass is flawless. If the cutoff knob is set to the very middle, the X-Filter lets all frequencies pass, i.e. behaves like it is not activated. The X-Filter is especially well suited for mouse-only setups with no MIDI Controller, since you may alter its main characteristics by just turning the Cutoff.

3.4.3.3 Useful tips for fast filter operation using the mouse

- When using the X-Filter and manipulating the cutoff knob, press CTRL while turning to come back to the middle.
- Press Shift while turning any knob to adjust more accurately.

3.5 FX: Effects for the mix

3.5.2 How to use FX





- 1) **FX** button: Click to activate FX, click again to turn off FX. You may also press X on your keyboard to activate/deactivate FX.
- FX Type: Selects the effect type you want to apply to the incoming signal. If [Plugins Only] is selected, no other FX than the VST plugins will be used (see below).
- 3) **Mix**: Changes the relation of wet (FX-processed) and dry (unprocessed) signal.
- 4) **Depth**: Changes the depth/influence of the selected effect. What effect parameter is influenced depends on the effect itself. See 3.5.2 for details.

- 5) **VST Plugins** (Windows only): You can insert two VST plugins here. Right-click any of the 3 buttons under the plugin to select an automation destination for any of the 3 buttons. This buttons can be controlled via MIDI and so you can effectively control automation parameters of the plugins. The plugins will influence the signal together with the selected FX Type, unless [Plugins only] is selected as FX Type.
- 6) **FX Channel**: Selects the Channel to apply FX to. This may be one of the 4 Channels or the Main Channel.
- 7) **FX Speed**: Selects the modulation speed (expressed in bars) of the selected effect. FX Speed has no influence on the Reverb effect.
- 8) **BPM display**: Shows "Clock" or "Tap" BPM amount. Shows "Clock" BPM if "Clock" is selected, shows "Tap" BPM if "Tap" is selected.
- 9) FX Clock Source: If "Clock" is selected, the FX section will obtain its BPM from the Channel having the BPM Sync Clock activated, thus "Clock" should always be selected if your MP3s/OGGs contain ID3 "BPM" frames. If "Tap" is selected, you will have to "tap" the tempo using the left CTRL key on your keyboard. Tapping the tempo is done by accurately hitting the Space key on each beat (normally kick drum), that is 4 times per bar.

Please note: The Loop Samplers always use the BPM indicated by the FX section as tempo reference for cueing. It is important to tap the tempo really accurately if you want to use the Loop Samplers with Clock Source set to "Tap".

3.5.2 FX Types

Quad offers the following (mostly BPM-synchronized) FX:

- Chorus
- Flanger
- Delay
- LFO Filter
- Phaser
- Reverb (the only one not being BPM-synchronized)
- Pan
- Tremolo

3.5.2.1 Flanger

The Flanger effect is obtained by mixing the original signal with a slightly delayed version of the original signal while the delay time is slowly changed back and forward. The Depth knob controls the depth of the Flanger effect.



3.5.2.2 Phaser

The Phaser sounds slightly similar to the Flanger effect, although it is based on phase-distortion obtained by running the original signal through filters and mixing this signal back with the original signal. The Depth knob controls the depth of the Phaser effect.

3.5.2.3 Echo

The Echo effect repeats the incoming signal rhythmically several times, like a fading echo. The Depth knob modifies the echo time: if set to middle position, the echo time will be equal to the selected FX speed, the left half will shorten the echo time whereas the right half will increase the echo time.

3.5.2.4 Delay

The Delay effect repeats the incoming signal rhythmically one time. The Depth knob modifies the delay time: if set to middle position, the delay time will be equal to the selected FX speed, the left half will shorten the delay time whereas the right half will increase the delay time.

3.5.2.5 LFO Filter

The LFO Filter lowpass-filters the incoming signal by varying the cutoff rhythmically. The Depth knob controls the filtering depth.

3.5.2.6 Tremolo

The Tremolo varies the level of the incoming signal rhythmically. The Depth knob controls the speed of the level variation: if set to middle position, the speed will be equal to the selected FX speed, the left half will shorten the speed whereas the right half will increase the speed.

3.5.2.7 Pan

The Pan effect moves the audio signal from left to right and right to left in a rhythmic fashion. The Depth knob controls the speed of this movement: if set to middle position, the speed will be equal to the selected FX speed, the left half will shorten the speed whereas the right half will increase the speed.

3.5.2.8 Reverb

The Reverb effect sounds like a more or less big room. The Depth knob influences the size of this virtual room.



3.6 Crossfader



Quad's Crossfader allows crossfading between 2 selected channels using 3 different curves.

To apply crossfading to 2 different channels, do the following:

- Select left Crossfader source Channel (1, 2, 3, 4 or THRU for no influence).
- Select right Crossfader Channel (1, 2, 3, 4 or THRU for no influence).
- Select Crossfader Curve (slow, mid, fast) : slow and mid are good for mixing, fast is especially suited for scratching but not so good for mixing.
- Use the Crossfader Pan (in the middle) to crossfade between the left and right Crossfader source Channels.

3.7 MIDI

3.7.1 Selecting the MIDI Input in Quad's Preferences

Today's market offers a broad range of MIDI controllers that can all be used to control Quad's knobs, faders and buttons. Before using one or more MIDI controllers, you must select your active MIDI controller(s) as MIDI Input(s) in the Preferences window:

active midi inputs:	TIL FROM MIDI TOKE: 8	~
	🕑 USB Audio Device	
	OUSB Audio Device [2]	\bigtriangledown
Midi Output:	USB Audio Device	\$

Selecting the MIDI Input/Output in the Preferences

After selecting the MIDI Input(s), the MIDI Input Indicator on the bottom in the main window should light up when you turn knobs on your MIDI controller(s).



If your MIDI Controller supports **MIDI controller feedback** (such as endless rotary knob controllers and controllers with LEDs to indicate the state of buttons), you should also specify the same controller as **MIDI Output**.

3.7.2 MIDI Learn

Assigning a specific MIDI controller to a certain knob/button/fader (for instance the Cutoff knob, or the Channel's Level) is extremely easy:

First press the LEARN button on the bottom. This button will start blinking to show that MIDI Learn mode is on. Then click on any left to be controlled knob / button/ fader and then turn your MIDI controller's knob - Quad will "learn" from this action and from now on the chosen MIDI controller will control the chosen parameter in Quad. Continue in the same fashion for other knobs. The programmed MIDI Control Settings will be available every time you start Quad. They may be saved or loaded in the Preferences (see next chapter).

Selecting a knob in Quad2 for MIDI Learn while holding CTRL on your keyboard will tell Quad2 that the to-be-used MIDI message should reset this knob to its initial position. This is extremely useful for controllers such as the Behringer BCR2000 that have knobs that act as a buttons when you press them : You can use the press-action to reset knobs (especially X-Filter's Cutoff) to the initial position.

3.7.3 MIDI Control Settings

If you own more than one MIDI Controller, you may load and save the actual MIDI Control Settings to use more than one MIDI Controller. MIDI Control Settings may be **saved** and **loaded** in the Preferences window using the "Save MIDI Control Settings" and "Load MIDI Control Settings" buttons.



Managing MIDI control Settings in Quad's Preferences



The "Clear MIDI Control Settings" button allows **resetting** the whole MIDI Control Settings, effectively erasing Quad's entire MIDI Learn memory (but of course not the MIDI Control Settings you saved on the disk).

3.8 Recording your mix

You may record Quad's **Main Output or any input from the soundcard** as .WAV file (16Bit or 32Bit Stereo @ playing sampling rate) while mixing. To start recording, press the REC button. The following window will appear:

	Choose Record Source and Quality!	×
Source	Internal (Main Output)	\$
Quality	16Bit Stereo (limited to 6h 40min) 🗘 OK Can	cel

Quad will ask you for the record source and the quality of the to-be-saved .WAV file. The record source is where the signal comes from. If you mix internally, choose "Internal (Main Output)", otherwise choose any of your soundcard inputs where the Main Output or Booth/Monitor output of your mixer is connected to.

In most situations it is advised to use 16Bit quality, because your mix then can be longer (6h 40min instead of 3h 20min for 32Bit) and will take up only half the space on the hard disk.

Quad will ask for the filename, location to save the .WAV file at. Thereafter, the REC button will become red to indicate that Quad is ready to record the mix. The recording itself will begin as soon as the Main Output's signal level exceeds -40dB (peak).

To stop the recording process, just press the RECORD button once more.

Please note: Please make sure that there is enough disk space left to save the mix. At a sampling rate of 44.1 kHz, 1 GB of Disk Space equals to approximately 100 Minutes of music when stored as 16 Bit Stereo .WAV file. Make sure you always have at least 4-5 GB of free hard disk space on your computer when recording mixes.



4. Appendix

4.1 Keyboard Shortcuts

Working with a mouse may be nice in most situations, but while mixing it may be preferable to use keyboard shortcuts for fast control of the most important features. Here's a list of Quad's keyboard shortcuts:

Tab	Move between Find Box & Browser windows
Space	Tap Tempo
L	Load selected MP3 (Quad will ask you for Channel to
	load onto)
F	Enter Search Box
Enter	In Search Box: Find Next
Х	FX On/Off
Right Arrow	In Browser directory structure : Open Folder
All Arrow Keys	Navigate in Browser
CTRL+Arrow Up	In Case or Current Playlist: Move entry up
CTRL+Arrow Down	In Case or Current Playlist: Move entry down
Page Up	In Browser (songs): Fast up
Page Down	In Browser (songs): Fast down
CTRL	While turning knobs/sliders: reset to initial position
Shift	While turning knobs/sliders: increase precision

4.2 Mouse Button Functions

Left mouse button	Normal, Windows-like function
CTRL	Enter MIDI Learn Mode
Left mouse button + Shift	On knobs & sliders: manipulate
	knobs/faders more accurately
Double click (In Browser)	On song: load song onto Preview Player
	Cases & Current Playlist column headers:
	Sort as columns



4.3 Quad Timecode Vinyl Discs



Quad comes with 4 Timecode Vinyl discs. The A-Side is 33 rpm and contains 16 minutes of timecode, the B-Side is 45 rpm and contains 11 minutes of timecode (each minute of timecode is represented by a mark on the disc). 33 rpm is better for scratching, whereas 45 rpm is better for mixing (it is easier to mix at 45 rpm than at 33 rpm).

When your tune is playing and the needle comes to the end of the disc – don't panic - Quad will continue playing the tune as long as the needle stays on the disc in the endless track. However, further pitch variations or scratching are not recognized if the needle is in the endless track.

Although Quad is more or less insensitive to scratches/scrapes on the Vinyls, you should handle your Vinyls with care. Try to keep them as dust free as possible and do not expose them to the sun or heat.

