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X32 DIGITAL MIXER Preliminary User Manual 2.4 Group/Bus Banks (28) GROUP/BUS LAYERS – Select between DCA groups 1-8, Buses 1-8 or 9-16, or Matrices 1-6 and the main center bus with these buttons. The currently (30) active layer will light. (29) SENDS ON FADERS –... X32 DIGITAL MIXER Preliminary User Manual 2.5 Scenes, Assign, Mute Groups (41) MUTE GROUPS – Press one of these buttons to activate one of the mute groups. See the Topic Guide for details. (46) (42) SET SELECT BUTTONS – Press one of these buttons to activate one of the 3 layers of custom assignable controls. Page 17 (52) MIDI IN/OUT – Send and receive MIDI commands via 5-pin DIN cables. (53) AES/EBU OUT – Send digital audio via 3-pin AES/EBU XLR cable. (54) ULTRANET – Connect to a BEHRINGER P-16 personal monitoring system via Ethernet cable. (55) AES50 A/B – Transmit up to 96 channels in and out via Ethernet cables. X32 DIGITAL MIXER Preliminary User Manual 3. 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SPREAD controls how the reflection is distributed through the envelope of the reverb. The LO CUT knob sets a low frequency beneath which the source signal will not pass through the reverb. A Stereo Imager is typically used to control the placement of a signal within the recorder. This effect creates a unique "wobbly" sound that is quite dramatic when stereo field during mixdown or mastering. Modeled after the BEHRINGER Edison used on vocals and instruments. X32 DIGITAL MIXER Preliminary User Manual Tremolo / Panner Wave Designer Wave Designer is a powerful tool for adjusting signal transients and dynamics, such as attack and sustain.
Use it to make a snare drum really "crack" in the Stereo Tremolo creates an up and down volume change at a constant and even mix or level out volume inconsistencies of slap bass tracks. Page 24 X32 DIGITAL MIXER Preliminary User Manual Mood Filter Chorus + Chamber The Mood Filter uses an LFO generator and an auto-envelope generator to control Taking up only one FX slot, the Chorus + Chamber effect combines the shimmer a VCF (voltage-controlled filter), as well as a side chain function where the and doubling characteristics of a studio-grade Chorus with the sweet sound of a channel B signal controls the envelope of channel A. Page 25 X32 DIGITAL MIXER Preliminary User Manual Delay + Chorus Dual / Stereo TruEQ This combination effect merges a user-definable Delay (echo) with a studio- The TruEQ incorporates a special algorithm that compensates for the gain quality Chorus sure to fatten up even the "skinniest" track. Uses only one FX slot. adjustment overlapping effect that adjacent frequency bands have on one (Inspired by the TC Electronic D-Two) another.



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X32 DIGITAL MIXER Preliminary User Manual 5. Topic Guide 5.2 Default setup for connecting to monitoring and P.A. systems 5.1 Starting up, shutting down, The X32 comes pre-configured with the local XLR inputs connected to input and firmware updates channels 1-32, and XLR outputs 1-14 connected to the mix bus masters 1-14. We recommend switching the X32 on before any active sound reinforcement Bus masters 13-16 are connected to the effects inputs FX1-4.
X32 DIGITAL MIXER Preliminary User Manual 5.4 How do I add one of the 8 internal effects • Adjust rotary control #6 to select the specific processor you have applied the to the sound? effect to, in this case “Ins FX 5L”. Press the encoder to connect the selected insert effect. X32 DIGITAL MIXER Preliminary User Manual 5.7 Everything you ought to know about Solo 3. Select one of the three input channel layers (CH1-16, CH17-32, and monitor sources Line-Aux/FX Ret) 4. Adjust the 32 channels of input faders on the left side of the console. The X32 console allows you to monitor audio sources on a set of headphones or They now act as “virtual aux send knobs”... X32 DIGITAL MIXER Preliminary User Manual 5.8 Using Mute Groups as desired in the FOH mix by adjusting DCA fader 1. However, if you then notice that background vocalist #3 is a little too soft in the “blend” of background The X32 has 6 separate “mute groups”. X32 DIGITAL MIXER Preliminary User Manual 3. Press any of encoders 1-5 to switch to the edit screen for the specific custom 7. On the FOH X32 console, press the ROUTING switch next to the display.
control that you have highlighted.
The main screen will switch to an editing On the HOME tab select “AES50 A 1-8”... X32 DIGITAL MIXER Preliminary User Manual 5.14 Using the X32 in recording and • To load a preset from the UTILITIES screen, adjust the first encoder to select production studio environments which aspects of the selected channel you wish to recall, then press the 2nd encoder. X32 DIGITAL MIXER Preliminary User Manual 5.15 Remote control Remarks: The X32 hosts an Ethernet port on its rear panel which can be used to connect Due to the FAT format of the stick, the file size will be limited to 2 GB, which is and remote control it over a network via the XiControl on an iPad or the X-remote about 3 hours of stereo recording. Host system requirements for XUF FireWire/USB and it will display the card’s presence in several instances. interface expansion card Check the BEHRINGER website at behringer.com for updates of XUF firmware or system requirements. Please find the recommended hardware/software minimum configurations in the specifications section. Page 34 X32 DIGITAL MIXER Preliminary User Manual 32 in / 32 out This mode obviously allows the full potential of the interface to be tapped. It is also possible to run a virtual sound check of all 32 input channels by recording Note that the computer needs to be able to handle that amount of concurrent I/O them directly to a computer during a brief line check.
Page 35 X32 DIGITAL MIXER Preliminary User Manual 16 in / 16 out If you don’t actually need more than 16 concurrent input and output tracks to through the computer. In this case, the 16 input signals are put on channels be exchanged between the console and your PC, then this mode might be more 1-16, while the tape (card) returns are put on channels 17-32. Windows ASIO Driver with the XUF Card Download the X32 ASIO driver installer files from behringer.com. There is one Please watch behringer.com for further advice on the software configuration of zip archive for USB and one for FireWire driver installation. Unpack the one you XUF interface card. Page 37 X32 DIGITAL MIXER Preliminary User Manual The 'Output Channels' screen allows you to name each output channel for more organized mixing.
The 'Synchronisation' screen allows manual selection of the sample rate and clock source. X32 DIGITAL MIXER Preliminary User Manual The 'Settings' screen allows the stream, ASIO, and WDM sound buffers to be set. Any detected drop outs will be documented as well, in which case a larger buffer should be selected. 6.3 XUF Specifications Expansion Card Features: Audio input channels Audio output channels... X32 DIGITAL MIXER Preliminary User Manual 7.
X32 Main Display 7.1.2 Console Screens The color screen of the X32 offers a wealth of visual feedback and hands 7.1 Overview on control for the console. Whereas the dedicated top panel controls offer immediate hands-on adjustments for the most important operations of a 7.1.1 Display and Navigation Controls channel, the color screens offer similarly immediate visual feedback for a selected... Page 40 X32 DIGITAL MIXER Preliminary User Manual Global Screen Elements 15:33 Ch01 OpeningScene A: S16 A: 48K : 15 02: next 0:00 - 0:00 C: XUF con g home gate sends main FatSn a re AES50-A: Displays, by name, what AES50 based equipment is connected to the The “global”... X32 DIGITAL MIXER Preliminary User Manual Rotary Encoder Elements: Gain Lo Cut Source Delay Ins Pos Insert +0.00 Input InsF Link Lo Cut Select Delay Insert Connect The bottom of most screens contain 6 slots of information that are always paired 2.
X32 DIGITAL MIXER Preliminary User Manual 7.2 Home Screen 7.2.1 Home Screen: Home Tab The home screen contains a high-level overview of the selected input or output The home tab of the home screen displays a general signal path for the currently channel, and offers various adjustments not available through the dedicated selected input or output channel. Page 43 X32 DIGITAL MIXER Preliminary User Manual 7.2.2 Home Screen: Config Tab 7.2.3 Home Screen: Gate Tab The configuration tab allows selection of signal source/destination for the The gate tab displays all aspects of the channel noise gate and allows for very channel, configuration of insert point, and other settings, as well as configuration deep control of the gate effect. Page 44 X32 DIGITAL MIXER Preliminary User Manual 7.2.4 Home Screen: Dynamics Tab • Linear: In this mode, the rate of gain change is constant (as set by the timing controls).
Therefore, the greater the signal dynamic excursion, The dynamics tab displays all aspects of the channel compressor and allows for the longer the compressor will take to complete a gain change. Page 45 X32 DIGITAL MIXER Preliminary User Manual 7.2.5 Home Screen: EQ Tab 7.2.6 Home Screen: Sends Tab The EQ tab displays all aspects of the channel equalizer and also displays a The sends tab displays and controls all aspects of the channel sends to the sixteen detailed visual graph of the current EQ curve. X32 DIGITAL MIXER Preliminary User Manual 7.3 Meters Screen The meters screen displays different groups of level meters for various signal paths of the console, and is useful for quickly ascertaining if any channels need level adjustment. Since there are no parameters to adjust for the metering displays, none of the metering screens contain any “bottom-of-screen”... X32 DIGITAL MIXER Preliminary User Manual 7.4 Routing Screen To assign various inputs to the console’s input channels, perform the following steps: The routing screen is where all signal patching is done, allowing you to route internal signal paths to and from the physical input/output connectors located on 1. Page 48 X32 DIGITAL MIXER Preliminary User Manual 7.4.2 Routing Screen: Analog Out Tab 5.
Adjust the 5th encoder to select the signal tap point for the output assignment. This determines where in the audio signal path the source is The routing screen’s analog out tab allows the user to patch the console’s various “tapped”... Page 49 X32 DIGITAL MIXER Preliminary User Manual 7.4.4 Routing Screen: P16 Tab 5. Adjust the 3rd encoder to select for coarse range • Insert The routing screen’s P16 tab allows the user to route various console signal paths to the rear panel P16 Ultranet output. The Ultranet output allows for 16 channels •... Page 50 X32 DIGITAL MIXER Preliminary User Manual 7.4.5 Routing Screen: Card Output Tab: 7.4.6 Routing Screen: AES50-A and AES50-B Tabs: The routing screen’s card tab allows the user to patch various signal paths to The routing screen’s AES50-A and AES50-B tabs allow the user to patch various the physical inputs and outputs of the XUF card. X32 DIGITAL MIXER Preliminary User Manual 7.5 Setup Screen 7.5.2 Setup Screen: Config Tab: The setup screen offers various controls for global, high-level functions of The setup screen’s config tab allows adjustment of various audio-related settings, the console such as display adjustments, sample rates and synchronization, such as the console’s base sample rate and use of an internal or external digital user settings, and network configuration. Page 52 X32 DIGITAL MIXER Preliminary User Manual 7.5.3 Setup Screen: Remote Tab: Note that the graphics at the top of the screen will always display a green led when the console has achieved proper “digital lock”, from either its own internal The setup screen’s remote tab allows setting up the console as a control surface clock or a valid external clock. Page 53 X32 DIGITAL MIXER Preliminary User Manual 7.5.5 Setup Screen: DCA Tab The setup screen’s DCA tab allows setup of the console’s digitally controlled amplifiers grouping feature, also known as DCAs. A DCA group is a grouping function, made possible by the console’s digital operation, where individual input channels can be grouped together and controlled with a single output fader on the right-hand side of the console. X32 DIGITAL MIXER Preliminary User Manual 7.6 Libraries Screen 9. Tap the 6th encoder to export the currently highlighted preset to an attached USB drive. The libraries screen allows loading and saving of commonly used setups for the channel inputs, effects processors, and routing scenarios. •...
X32 DIGITAL MIXER Preliminary User Manual 7.7 Effects Screen 5. Adjust the 5th encoder to scroll among the different available audio effects. Choices include: The effects screen controls various aspects of the eight internal effects processors. On this screen, the user can select specific types of effects for 1.
X32 DIGITAL MIXER Preliminary User Manual 7.8 Mute Group Screen The mute group screen allows for quick assignment and control of the console’s 6 mute groups, and offers two separate functions: 1. It mutes the active screen during the process of assigning channels to mute groups. X32 DIGITAL MIXER Preliminary User Manual 7.9 Utility Screen The utility screen is a supplemental screen designed to work in conjunction with the other screens that may be in view at any particular moment. The utility screen is never seen by itself, it always exists in the context of another screen. To reinforce this point, when the utility screen button is pressed, it illuminates at the same time that another screen button is also illuminated, showing you which screen it is providing extra utilities for. X32 DIGITAL MIXER Preliminary User Manual “View” Based Screens • Mix Bus AFL/PFL: This toggles the AFL/PFL setting for the mix buses when they are soloed (as opposed to the soloing of a single The screens described in the following sections are all “View” based screens. input channel).
Page 59 X32 DIGITAL MIXER Preliminary User Manual 7.10.2 Monitor/Talkback Screen: Talkback Tabs: 7.10.3 Monitor/Talkback Screen: Oscillator Tab: The talkback tabs offer various adjustments for the talkback paths of the console, The oscillator tab offers controls for the console’s onboard oscillator, a very handy such as destination of the talkback signal and more. X32 DIGITAL MIXER Preliminary User Manual 7.11 USB Screen 7.11.2 USB Screen: Configuration Tab The USB screen controls various aspects of the console’s onboard audio file The configuration tab allows setting up all aspects of the stereo recorder.
In this player/recorder, allowing the user to record stereo audio to an attached screen, one can select audio paths to feed to the recorder and adjust the level of USB drive, as well as playback audio files from the drive through the console. Page 61 X32 DIGITAL MIXER Preliminary User Manual 5. Rotate the 4th encoder to select the specific signal source to feed the currently selected channel of the stereo recorder. Choices include: • Main L • Main R • Main C/M • Any of the 16 Mix Bus Outputs •... X32 DIGITAL MIXER Preliminary User Manual 7.12 Assign Screen 7.12.2 Assign Screen: Set A Tab The assing screen allows setup for the 4 user-assignable rotary encoders and The “Set A” tab allows mapping of specific console parameters to the 8 assignable eight user-assignable buttons. X32 DIGITAL MIXER Preliminary User Manual 7.13 Scenes Screen 8. Tap the 4th encoder to complete the save operation. The console’s current state will be overwritten on the scene number that was selected with The scenes screen allows setup for saving and recalling different memory scenes the encoder. Page 64 X32 DIGITAL MIXER Preliminary User Manual 7.13.3 Scenes Screen: Parameter Safe Tab 7.13.4 Scenes Screen: Channel Safe Tab The scenes screen’s “parameter safe” tab configures which console parameters The scenes screen’s “channel safe” tab configures which console channels are are and are not saved/switched with the console scenes. This is very useful and are not changed when a console scene change occurs. X32 DIGITAL MIXER Preliminary User Manual Block Diagram... X32 DIGITAL MIXER Preliminary User Manual 8. Specifications Processing Number of input processing channels 32 input channels, 8 aux channels, 8 fx return channels Internal effects engines, true-stereo / mono 8/16 Internal total recall scenes (incl. preamp and fader) Signal processing 40-bit floating point A/D-D/A conversion 24-bit @ 44.1 / 48 kHz, 114 dB dynamic range... Page 67 X32 DIGITAL MIXER Preliminary User Manual Input/Output Characteristics Frequency range, @ 48 kHz sample rate, 0 dB to -1 dB 10 Hz - 22 kHz Dynamic range, analog in to analog out (typical) 106 dB A/D dynamic range, preamp and converter (typical) 109 dB D/A dynamic range, converter and output 108 dB...
900.23 mm X32 DIGITAL MIXER Preliminary User Manual Dimensions 900.23 mm 527.05 mm 527.05 mm Top view 169.46 mm 221.33 mm 22.00 mm 169.46 mm 221.33 mm Side view Back view 22.00 mm... Page 69 X32 DIGITAL MIXER Preliminary User Manual FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION X32

DIGITAL MIXER MUSIC Group Services US Inc. Responsible Party Name: 18912 North Creek Parkway, Address: Suite 200 Bothell, WA 98011, Phone/Fax No.: Phone: +1 425 672 0816 Fax: +1 425 673 7647 X32 DIGITAL MIXER complies with the FCC rules as mentioned in the following paragraph: This equipment has been tested and found to comply with the limits for a Class B...
Page 70 We Hear You... 40-input, 25-bus digital mixing console with 32 programmable midas preamps, 25 motorized faders, channel lcd's, 32-channel audio interface and ipad/iphone remote control Manual is suitable for 1 more product: X32-TP