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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA MGP32X/MGP24X. You'll find the answers to all your questions on the YAMAHA MGP32X/MGP24X in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA MGP32X/MGP24X
User guide YAMAHA MGP32X/MGP24X
Operating instructions YAMAHA MGP32X/MGP24X
Instructions for use YAMAHA MGP32X/MGP24X
Instruction manual YAMAHA MGP32X/MGP24X



MIXING CONSOLE

MGP32X
MGP24X

Owner's Manual



PRECAUTIONS	pages 4 to 6
Setup	pages 7 to 9
Troubleshooting	pages 40 to 41

EN



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Manual abstract:

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. @@@@A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11 12 Only use attachments/accessories specified by the manufacturer. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. @@Refer all servicing to qualified service personnel.

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.....27 MGP32X/MGP24X Owner's Manual 3 PRECAUTIONS PLEASE READ CAREFULLY BEFORE PROCEEDING * Please keep this manual in a safe place for future reference.

WARNING Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following: Power supply/Power cord • Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it. • Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device. • Use only the supplied power cord/plug. If you intend to use the device in an area other than in the one you purchased, the included power cord may not be compatible. Please check with your Yamaha dealer. • Check the electric plug periodically and remove any dirt or dust which may have accumulated on it. • Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock.

Water warning • Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel. • Never insert or remove an electric plug with wet hands. *Fire warning* • Do not put burning items, such as candles, on the unit.

A burning item may fall over and cause a fire. If you notice any abnormality • When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel. - The power cord or plug becomes frayed or damaged. - It emits unusual smells or smoke.

- Some object has been dropped into the instrument. - There is a sudden loss of sound during use of the device. • If this device should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified Yamaha service personnel. Do not open • This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel. *CAUTION* Always follow the

basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following: Power supply/Power cord • When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it. • Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.

- *Before moving the device, remove all connected cables. • When setting up the device, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet. Location • Do not place the device in an unstable position where it might accidentally fall over. • Do not block the vents. This device has ventilation holes at the bottom and sides to prevent the internal temperature from becoming too high. In particular, do not place the device on its side or upside down. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire.*
- *Do not place the device in a location where it may come into contact with corrosive gases or salt air.*



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Doing so may result in malfunction. Connections • Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum. Maintenance • Remove the power plug from the AC outlet when cleaning the device.

PA_en_1 1/2 4 MGP32X/MGP24X Owner's Manual Handling caution • Do not insert your fingers or hands in any gaps or openings on the device (vents, ports, etc.). • Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device (vents, ports, etc.) If this happens, turn off the power immediately and unplug the power cord from the AC outlet.

Then have the device inspected by qualified Yamaha service personnel. • Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors. • Do not use speakers or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician. Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed. Always turn the power off when the device is not in use. NOTICE To avoid the possibility of malfunction/damage to the product, damage to data, or damage to other property, follow the notices below. □

Connectors XLR-type connectors voice of an announcer coming in on another channel. The leveler function automatically maintains a consistent sound volume, even when using sound sources that have different mastering levels. Stereo image narrows the pan balance of the stereo sound source, and changes stereo signals to mono.

This is useful in restaurants and other spaces where the left and right speakers are distantly positioned, or when you input accompaniment sound to the left channel and vocal sound to the right and want a more natural stereo image. Main features D-PRE (Discrete Class-A MIC preamp) Mono input channels are equipped with Class-A discrete microphone preamplifiers. The head amplifier features an inverted Darlington circuit* used in high-end audio devices, and reproduces low frequencies with exceptionally musical characteristics as well as sustained high frequencies. Independent toggle switching of +48V phantom power and 26dB (pad) on each channel. * Inverted Darlington microphone, adjust the channel GAIN knobs so that the corresponding peak indicators flash briefly at the highest peak levels. NOTE • To use the level meter to get a more accurate reading of the incoming signal level, turn on the channel PFL switch. Adjust the GAIN knobs so that the PFL/AFL level meter indicator only occasionally rises above the "0" level. • The gain (volume) level of the audio files in the USB device may be too high. Refer to the NOTE on page 35 to adjust the volume. • Note that the PHONES jack or MONITOR OUT jacks output the pre-fader signal from all channels for which the PFL switch is ON, so that those signals can be monitored.

Faders 2. Turn on () 2. Connect speakers, microphones and/or instruments. Refer to "Setup example" on pages 8-9 for more information on connections.) the ON and ST (Stereo) switches for each channel you are using.

3. Make sure that all the PFL and AFL switches are off ()) the ON switch of the STEREO 4. Turn on () Powering up the system To prevent an unwanted burst of noise from the speakers, power up the devices in the following order: peripheral devices (instrument, microphone, iPod) □ MGP mixer □ power amps (or powered speakers). Reverse this order when turning the power off.

CAUTION • Be sure to turn the power on/off in this order every time you use the mixer. Failure to do so may result in loud noise bursts that can damage your equipment, your ears, or both. 5. Raise the STEREO master fader to the 0 dB position. 6. Adjust the volume of each channel by moving its fader up and down. 7. Adjust the overall volume with the STEREO master fader. The overall headphone level is adjusted with the PHONES knob.

NOTE If the PEAK indicator lights frequently, slowly lower the channel faders a little to avoid distortion. MGP32X/MGP24X Owner's Manual 7 Setup Setup example Computer/Audio interface Microphones for talkback Powered monitor speakers DVD player (voice) DJ mixer CD player Lamp (Yamaha LA-1L) Foyer etc. Stage Power amp Powered subwoofer Powered monitor speakers (For musician monitoring) Microphone CH24 {CH16} (for MC) Speakers Powered speakers Synthesizer 8 MGP32X/MGP24X Owner's Manual Setup Top panel USB device iPod/iPhone Headphones Compressor Rear panel *The illustrations show the panel of the MGP32X. CAUTION Instrument, Microphone Microphone x8 • When using a condenser microphone, set the +48V phantom switch to ON (page 11). Bass * If electric guitars and basses can be connected directly to the mixer's inputs, use a DI box (direct box) or amp simulator between the instrument and the mixer. Drum MGP32X/MGP24X Owner's Manual 9 Controls and Connectors Top panel Channel Control Block (input) Master Control Block (output) USB device recorder section (page 15) Mono input section (page 11) Stereo input section (page 11) Display section (page 16) iPod/iPhone section (page 15) Meter section (page 16) SEND MASTER section (page 18) MATRIX section (page 18) USB IN/iPod IN section (page 19) PHONES/MONITOR section (page 19) TALKBACK section (page 20) STEREO master section (page 21) MONO master section (page 21) GROUP section (page 20) FX RTN (effect return) section (page 17) Rear panel Channel I/O connectors section (page 22) Master I/O connectors section (page 22) Power section (page 23) 10 MGP32X/MGP24X Owner's Manual Controls and Connectors Channel control block Mono input section Stereo input section Mono channels 1-24 (MGP32X) 1-16 (MGP24X) Stereo channels 25-32 (MGP32X) 17-24 (MGP24X) * y-!0 are for CH29/ 30, CH31/32 {CH21/ 22, CH23/24} only. q 26dB (PAD) switch Turning this switch on () attenuates the input signal from the INPUT jack of the mono channel by 26dB. Turn this switch off () if you have connected a microphone or other device with a low input level to the channel. Turn it on () if you have connected a line-level device. w +48V switch and indicator Toggles phantom power on and off.

When this switch is turned on (), the mixer supplies DC +48V power to INPUT A of XLR input jacks. Turn this switch on when using one or more phantom-powered condenser microphones. The indicator is on when the switch is on. CAUTION • Be sure to leave this switch off (phantom power.) if you do not need Channel number • When turning phantom power on (), follow the important precautions below, in order to prevent noise and possible damage to the mixer and external devices.



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• Turn this switch off when connecting a device that does not support phantom power to INPUT A of XLR input jacks • Do not connect/disconnect a cable to/from channels 124 {1-16} while this switch on. • Turn the mixer's output controls – STEREO master and GROUP faders- all the way down when turning phantom power on/off. e GAIN knob Adjusts the sensitivity of the input signal. Monoaural channels have a 26dB switch (q) that lets you change the range of this control. The adjustable sensitivity range is as follows.

Mono channel 26dB switch ON OFF Range -34dB to +10dB -60dB to -16dB NOTE The stereo channel is fixed to a range of -34dB to +10dB. r (High Pass Filter) switch Turning this switch on () will apply a high-pass filter that attenuates frequencies below 100Hz in the signal by a slope of 12dB/octave. t COMP knobs and indicator (Channel 9-24 {9-16}) Adjusts the amount of compression applied to the channel. As the knob is turned to the right the compression ratio increases while the output gain is automatically adjusted accordingly. The result is smoother, more even dynamics because louder signals are attenuated while the overall level is boosted. The COMP indicator comes on when the compressor operates. NOTE Avoid setting the compression too high, as the higher average output level that results may lead to feedback. Channel number □ Continue to next page MGP32X/MGP24X Owner's Manual 11 Controls and Connectors Mono channels 1–24 (MGP32X) 1–16 (MGP24X) Stereo channels 25–32 (MGP32X) 17–24 (MGP24X) * y-!0 are for CH29/30, CH31/32 {CH21/22, CH23/24} only. y DUCKER SOURCE indicator The indicator of the selected input source (CH24 {CH16} or GROUP1) comes on. The input source can be selected on the display (page 37).

u DUCKER switch Turning this switch on () lowers the volume of the stereo channel automatically when a signal exceeding a certain level is input to the input source (CH24 {CH16} or GROUP1). When the switch is turned on, the switch's lamp comes on. Channel number i LEVELER switch and indicator Turning this switch on () allows the volume to be adjusted automatically to a certain level, when the actual sound output level differs for each song. The indicator is on when the switch is on. o Input select switch Selects the input signal source. If this switch is set to ANALOG (), the jacks for CH29/30 and 31/32 {CH21/22, 23/24} will be the input source. If this switch is set to USB IN () or iPod IN (), the signal from an USB device or iPod/iPhone will be the input source. The signal from an USB device will be input to CH29/30 {21/22}, while the signal from an iPod/iPhone will be input to CH31/32 {23/24}. NOTE The GAIN knobs do not affect the volume of your iPod/iPhone. To adjust the pre-channel-fader signal volume, refer to page 36.

!0 STEREO IMAGE switch Selects the type of output signal for the input stereo signal. • MONO : Mono signal • BLEND : Stereo signal in which left and right inputs are mixed at a certain percentage for a more natural stereo image, and in which the pan is controlled. • STEREO : Stereo signal (original, as is) !1 Equalizer knobs (HIGH, MID, and LOW) This three-band equalizer changes the tone of the high, mid, and low frequency bands. Turning the knob to the right boosts the corresponding frequency band, while turning to the left attenuates the band. Setting the knob to the "t" position produces a flat response in the corresponding band.

The upper knob sets the center frequency for the mid range, while the lower knob sets the amount of attenuation or boost (counterclockwise/clockwise) for the range. For the CH25/26 and CH27/28 {CH17/18 and CH19/20}, the attenuation/boost can only be set at a fixed 2.5kHz center frequency. The following table shows the EQ type, frequency, and cut/boost range for each of the three bands. Channel number Band HIGH MID LOW Type Shelving Peaking Shelving Frequency 8kHz 2.

5kHz* 125Hz ±15dB Cut/Boost range * The MID frequency can be adjusted from 250Hz to 5kHz. The MID frequency is 2.5kHz when the MID frequency control is set at the center position. !2 MGP32X/MGP24X Owner's Manual Controls and Connectors !2 AUX knobs (1-4) These knobs adjust the channel's signal levels into AUX buses 1 to 4. Each knob controls the signal into the corresponding AUX bus. On stereo channels, the LINE L (odd) and LINE R (even) input signals are mixed before moving into the AUX bus. These knobs should generally be set close to the "t" (nominal) position. NOTE • To enable use of AUX5 and AUX6, you must turn on (the AUX5/AUX6 switch (!5).) !8 PEAK indicator Lights red when the channel's post-equalizer signal level reaches 3 dB before clipping. !9 SIG (Signal) indicator Lights green when a signal is being input to the channel.

@0 Bus assign switches These switches determine the bus(es) to which each channel's signal is sent. Press the switch in () to output the signal to the corresponding bus. • Switches 1-2, 3-4: Assign the channel's signal to the GROUP 1 to 4 buses. • ST switch: Assigns the channel's signal to the STEREO L and R buses. NOTE To send the signal to each bus, engage the ON switch (!7). • For AUX1 to AUX4, you use the PRE switch (!3) to select whether the pre-fader or post-fader signal is sent to the bus. For AUX5 and AUX6, only the post-fader signal can be sent. !3 PRE switch Selects whether the pre-fader or the post-fader signal is fed to the corresponding pair of AUX 1-4 buses. AUX1 and 2 and also AUX3 and 4 should be paired. The upper PRE switch controls the signal to AUX1 and AUX2; the lower switch controls the signal to AUX3 and AUX4.

If the switch is on (), the mixer feeds the pre-fader signal to the corresponding buses. If off (), the mixer feeds the post-fader signal. @1 PFL (Pre-Fader Listen) switch and indicator When the PFL switch is turned on () the indicator comes on and the channel pre-fader signal is output to the MONITOR OUT and PHONES jacks for monitoring. !4 FX (effect) knobs (1, 2) These knobs adjust the channel's post-fader signal levels into FX buses 1 and 2. On stereo channels, the LINE L (odd) and LINE R (even) input signals are mixed before moving into the FX bus.

These knobs should generally be set close to the "t" (nominal) position. NOTE If the AUX5/AUX6 switch is on, these knobs adjust the output to the AUX5 and AUX6 buses. @2 Channel fader Adjusts the output level of the input channel signal. Use these faders to adjust the balance between the various channels.

NOTE To reduce noise, set the fader sliders for any unused channels all the way down.

!5 AUX5, AUX6 switch Selects whether the channel's post-fader signal is sent to AUX buses 5 and 6 or FX buses 1 and 2. If the switch is on (), the signal goes to AUX5 and 6 buses; if off (), the signal goes to the FX buses. !6 PAN knob (Mono channels) BAL knob (Stereo channels) These knobs set the stereo pan position and determine the volume balance between left and right.



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When the channels are panned hard left or hard right, sound is heard from only the hard-panned channel. The PAN knob determines each mono signal's pan positioning between left and right, while the BAL knob determines the stereo channel's volume balance between left and right. !7 ON switches Turning this switch on () sends that channel's signal to the buses. When the switch is turned on, the switch's lamp comes on. If you turn the switch off (), all of the signal sent to the buses such as AUX and GROUP buses is cut off. NOTE • The ON switch does not affect the operation of the PFL switch (@1). You can monitor the channel's pre-fader signal through the PHONES jack even when the ON switch is off.

• To reduce noise, turn all unused channels off. MGP32X/MGP24X Owner's Manual 13 Controls and Connectors □ Mono Channel 1–2 3–4 AUX1 AUX2 AUX3 AUX4 ST □ Stereo Channel 14 MGP32X/MGP24X Owner's Manual Controls and Connectors Master control block USB device recorder section With this section you can connect a USB device to record and play back music. (page 33) iPod/iPhone section This section lets you connect an iPod/iPhone to play back a song (page 36) and charge the iPod/iPhone. The unit charges the iPod/iPhone while it is connected to and recognized by the unit. q iPod/iPhone IN connector e r t y Transport section Use an USB cable to connect an iPod/iPhone. w iPod indicator Lights when the unit is accessing an iPod/iPhone.

CAUTION • Use the genuine Apple Dock Connector USB Cable for the iPod/iPhone connection. • When connecting to an iPod/iPhone, allow at least 6 seconds to pass between turning the mixer on and off and plugging or unplugging the USB cable. • Please do not use a USB hub. • The unit's iPod/iPhone IN connector is dedicated to iPod/iPhone use only.

Please do not connect other USB devices. q USB IN connector Connects the USB device. w USB ACCESS indicator Lights while the unit accesses the USB device. □ Capacity and format of the USB device Up to 64GB of the capacity for the USB device is guaranteed by Yamaha. (However, Yamaha cannot guarantee operation for all the USB devices).

The supported file system is FAT32. The maximum size of one file is 2GB. NOTICE • While the unit is accessing data (such as during recording, playing back, and saving operations), do NOT remove the USB device from the USB IN connector, and do NOT turn off the unit. Doing so may damage the USB device or corrupt the data on either or both the unit and the USB device. • Make sure that you insert the USB device all the way in the correct orientation or upside down.

Avoid inserting with excessive force. NOTE If you connect an iPhone, incoming calls or emails may cause a notification sound to be output. In order to prevent this, we recommend setting the iPhone's Airplane mode to "on." □ Transport section e REW button Press to move to the previous song. Holding down this button while playing back rewinds the song. r PLAY button and indicator Press to alternately start/pause playback of the song. The indicator lights during playback, and flashes while paused. t FWD button Press to move to the next song. Holding down this button while playing back forwards the song. Pressing this button while recording stops the current recording and begins recording a new file.

y REC button and indicator Press to start/stop recording. The indicator lights while recording. MGP32X/MGP24X Owner's Manual 15 Controls and Connectors Display section This section is for setting and operating the display. Refer to pages 24-25 for details. Meter section Knob 1 Knob 2 Use these meters to view various signal levels: the levels to the STEREO OUT L/R jacks, the PFL and AFL levels, and the levels to the GROUP OUT 1-4 jacks. The PFL or AFL signals indicated by these meters can be monitored through the MONITOR OUT jacks and the PHONES jack. q Display Indicates the various messages and settings related to the currently selected operation or function. w Knob 1, Knob 2 Selects/sets the functions and parameters appearing on the display. Rotate Knob 1 to operate the functions on the lower left side of the display, and Knob 2 for the functions on the lower right side of the display. e HOME button Calls up the display to view the status of the functions.

This button does not determine or change the parameter. r FX1 and FX2 buttons Call up the display to switch the programs of FX1 (effect1) and FX2 (effect2) and to adjust their parameters. q METER SELECT button and indicator Switches the display of the level meter to the output signal level of the STEREO OUT L/R and the PHONES jacks, or of the GROUP OUT 1-4 jacks. The indicators for the selected signals come on. t GEQ button Calls up the display to set the Graphic equalizer (GEQ).

y COMP button Calls up the display to set the compressor. w STEREO level meter Shows the signal level output to the STEREO OUT L/R jacks or the GROUP OUT 1 and 2 jacks, respectively. The "0" position corresponds to the standard level. The PEAK indicator lights red when the level hits the clipping point. u USB button Calls up the display to record and play back with the USB device.

i SETUP button Calls up the display to adjust the contrast of the display, and to set the ducker and the leveler. e PFL/AFL level meter Shows the signal level output to the PHONES jack or the GROUP OUT 3 and 4 jacks, respectively. The "0" position corresponds to the standard level. The PEAK indicator lights red when the level hits the clipping point. NOTE The PFL signal has display priority over the AFL signal when an input channel's PFL switch is on. 16 MGP32X/MGP24X Owner's Manual Controls and Connectors FX RTN (effect return) section e TAP button and indicator This feature lets you set the delay time for FX2 by tapping on the button. This feature only works when the effect type for FX2 is set to "DELAY" or "SINGLE DELAY." To set the delay time, tap on the button at the appropriate interval. The average interval at which you tap the button will be calculated, and that value will be set for the delay time.

Continue tapping as necessary until you get the timing right. The average interval will be set (the average of a, b, and c) a b c This section sets the effect returns (FX1 and FX2) on/off, and determines the level of the effect signal and to which bus the signal is sent. First tap Second tap Third tap Fourth tap The TAP indicator flashes in sync with the delay time when DELAY or SINGLE DELAY is selected. NOTE • Adjust the average interval within range of the variable delay time. • See page 44 for the range of the variable delay time. r ON switch Turn this switch on () to enable the FX RTN (effect return). When the switch is turned on, the switch's lamp comes on. t SIG (Signal) indicator Lights when an effect signal is input into the channel.



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y Bus assign switches These switches determine the bus(es) to which the signal of the internal digital effects is sent.

Press the switch in () to output the signal to the corresponding buses. • Switches 1-2, 3-4: Assign to the GROUP1 to GROUP4 buses. • ST switch: Assigns to the STEREO L/R bus. u PFL (Pre-Fader Listen) switch and indicator When the PFL switch is turned on (), the indicator will light and the pre-FX (1, 2) RTN-fader signal is output to the MONITOR OUT and PHONES jacks for monitoring. q AUX (PRE) knobs (1-4) These knobs adjust the level of the effect sent to the AUX1 to AUX4 buses.

i FX RTN (effect return) faders (1, 2) These adjust the level of the effect sent from the internal effect to the GROUP1 to GROUP4 buses, and STEREO L/R buses. w FX TO FX BLEND knob Sends the signal from FX1 to FX2 and from FX2 to FX1. Rotate this knob from the center "OFF" position to the right to adjust the send level from FX1 to FX2, and to the left to adjust the send level from FX2 to FX1. Only the pre-fader signal can be sent. MGP32X/MGP24X Owner's Manual 17 Controls and Connectors SEND MASTER section MATRIX section This section adjusts the levels and controls the output of signals from the six AUX buses.

Each of these signals outputs to the corresponding SEND (AUX1-AUX6) jack respectively. This section adjusts the levels and controls the output of signals to the MATRIX OUT jacks from GROUP OUT and STEREO OUT. The signals from the MATRIX 1 and 2 buses are sent to the MATRIX 1 and 2 jacks respectively. q AUX knobs (1-6) These knobs adjust the level of the signal from the indicated AUX1 to AUX6 buses into the corresponding SEND (AUX1 to AUX6) jacks. The "r" position of the knob is the nominal level (0 dB). q GROUP knobs (1-4) These knobs adjust the level of the signals sent from GROUP OUT 1-4 buses to the MATRIX OUT jacks. w AFL (After-Fader Listen) switch and indicator Turning this switch on monitors the post-AUX1 to AUX6 knob (q) signals that output to the MONITOR OUT and PHONES jacks for monitoring. NOTE • The PFL signal has priority when both the PFL switch and AFL switch are on. To monitor the post-fader signal, make sure to turn off all PFL switches. • If the PFL (preferred) is enabled, the AFL indicator does not light, even if the AFL switch is pressed.

w STEREO knobs (L, R) These knobs adjust the level of the signals sent from STEREO OUT L/R buses to the MATRIX OUT jacks. e MATRIX master knobs (1, 2) These knobs adjust the overall level of the signal output to the MATRIX OUT jacks. NOTE The "r" positions of the knobs for (q), (w), and (e) indicate the nominal level (0 dB). r AFL switch and indicator When the AFL switch is on, the indicator will light and the signal after the MATRIX master knob is output to the PHONES and MONITOR OUT jacks for monitoring. 18 MGP32X/MGP24X Owner's Manual Controls and Connectors USB IN/iPod IN section PHONES/MONITOR section This section determines the destination of the signal output from the connected USB device or iPod/iPhone, and adjusts the signal level. You connect a pair of headphones and adjust the output signal level to the PHONES and MONITOR OUT jacks. q PHONES jack q USB IN knob Adjusts the playback level from the connected USB device. Connect a pair of headphones to this TRS phone jack. The PHONES jack outputs the same signal as the MONITOR OUT jacks. w TO STEREO/TO MONITOR switch Determines the destination of the signal output from the connected USB device. • TO STEREO (): Sends to the STEREO L/R bus. • TO MONITOR (): Sends to the MONITOR OUT jacks and PHONES jack. w PHONES knob Adjusts the level of the signal output to the PHONES jack. e MONITOR knob Adjusts the level of the signal output to the MONITOR OUT jacks. NOTE If you want to monitor the output signal from the STEREO, MONO or GROUP bus, turn on the AFL switch of each respective bus. e iPod IN knob Adjusts the playback level from the connected iPod/iPhone. r TO STEREO/TO MONITOR switch Determines the destination of the signal output from the connected iPod/iPhone. • TO STEREO (): Sends to the STEREO L/R bus. • TO MONITOR (): Sends to the MONITOR OUT jacks and PHONES jack. NOTE CH29/30, 31/32 {CH21/22,23/24} can be selected as the destinations of the signal input from the connected USB device or iPod/iPhone (pages 34, 36).

MGP32X/MGP24X Owner's Manual 19 Controls and Connectors TALKBACK section GROUP section Use the talkback function to send instructions mainly from the operator to musicians and studio staff. This section adjusts the level of the microphone signal received from the TALKBACK MIC IN jack, and determines the bus to be output. This section adjusts the level and controls the flow of the signals from the four GROUP buses. While the signal from each GROUP bus is always sent to the corresponding GROUP OUT jack, you are also free to use the ST and AFL switches to selectively send these groups to the STEREO and AFL buses. q Talkback knob Adjusts the talkback level. w AUX1-4 switch and indicator Turning this switch on sends the signal from the TALKBACK MIC IN jack to the AUX1 to AUX4 buses. e STEREO switch and indicator Turning this switch on sends the signal from the TALKBACK MIC IN jack to the STEREO L/R bus. q PAN knob Determines how the signal from the GROUP 1-4 buses is positioned on the STEREO L/R buses when turning the ON switch (w) on. w ON switch Turning this switch on enables the GROUP fader. When the switch is turned on, the switch's lamp comes on.

e ST (Stereo) switch Turning this switch on sends the signal adjusted with the GROUP fader (t) via the PAN knob (q) to the STEREO L/R bus. r AFL (After-Fader Listen) switch and indicator When the AFL switch is on, the indicator will light and the signal after the GROUP fader (t) is output to the MONITOR OUT and PHONES jacks for monitoring. t GROUP faders (1-4) These adjust the level of the signal sent to the corresponding GROUP OUT 1-4 jacks. NOTE • The PFL signal has priority when both the PFL switch and AFL switch are on. To monitor the post-fader signal, make sure to turn off all PFL switches. • If the PFL (preferred) is enabled, the AFL indicator does not light, even if the AFL switch is pressed. 20 MGP32X/MGP24X Owner's Manual Controls and Connectors MONO master section This section adjusts the level of the mixed monaural output from the STEREO bus. STEREO master section This section adjusts the level of the main output from the STEREO bus. q ON switch Turning this switch on enables the MONO master fader. When the switch is turned on, the switch's lamp comes on.

q ON switch Turning this switch on enables the STEREO master fader. When the switch is turned on, the switch's lamp comes on. w LPF indicator Lights when setting "LPF ON" to "ON" in the SETUP screen on the display. w COMP (Compressor) indicator Lights when setting the COMP to "ON" in the COMP screen on the display.



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e AFL switch and indicator When the AFL switch is turned on, the indicator will light and the signal after the MONO master fader is output to the MONITOR OUT and PHONES jacks for monitoring.

To monitor the post-fader signal, make sure to turn off all PFL switches. *e* GEQ indicator Lights when setting the GEQ ON to "ON" in the GEQ screen on the display. *r* AFL switch and indicator When the AFL switch is on, the indicator will light and the signal after the STEREO master fader is output to the MONITOR OUT and PHONES jacks for monitoring. To monitor the postfader signal, make sure to turn off all PFL switches. *r* MONO master fader Adjusts the level of the signal output in mono from the STEREO bus to the MONO OUT jack.

t STEREO master fader Adjusts the level of the signal output from the STEREO bus to the STEREO OUT jack. MGP32X/MGP24X Owner's Manual 21 Controls and Connectors Rear input/output block Channel I/O connectors section CH25/26-31/32 {CH17/18-23/24} CH1-24 {CH1-16} Master I/O connectors section Power section Channel I/O connectors section *q* Mono inputs • INPUT A: These are balanced XLR-3-31 type input jacks (1: Ground; 2: Hot; 3: Cold). • INPUT B: These are TRS phone-jack type balanced inputs. You can connect either balanced or unbalanced phone plugs to these jacks. NOTE On any given channel, you may use either an XLR or phone jack, but not both. *w* Stereo inputs • LINE: These are stereo input jacks that connect linelevel instruments, such as a CD player. These are unbalanced phone-jack and RCA pin-jack line inputs. NOTE On any given channel, you may use either a phone or RCA pin jack, but not both. Master I/O connectors section *e* MATRIX OUT (1, 2) These are impedance-balanced (*) TRS phone jacks. These jacks output the signal adjusted by the knobs in the MATRIX section.

• INSERT: These are unbalanced TRS (tip=send/out; ring=return/in; sleeve=ground) phone-type bidirectional jacks. You can use these jacks to connect channels to devices such as graphic equalizers, compressors, and noise filters. NOTE Connection to an INSERT jack requires a special insertion cable as illustrated below. Use a separately-sold Yamaha insertion cable (YIC025/050/070). To the input jack of the external processor To the INSERT jack * Impedance balanced Since the hot and cold terminals of impedance balanced output jacks have the same impedance, these output jacks are less affected by induced noise. *r* MONITOR OUT (L, R) These are impedance-balanced(*) TRS phone output jacks that you connect to your monitor system. These jacks output the signal before or after the faders for the various buses. The PFL and AFL indicators in each section indicate which signal is being output. NOTE The PFL switch has priority when both the PFL switch and AFL switch are on. To monitor the post-fader signal, make sure to turn off all PFL switches.

Tip: OUT Tip: IN Sleeve (ground) Ring: IN Tip: OUT To the output jack of the external processor 22 MGP32X/MGP24X Owner's Manual Controls and Connectors *t* Screw holes These are screw holes for mounting a stand for various devices (87mm between the holes). Stands and screws are not included with this product, and must be provided by the user. Use M5 screws that are no longer than 20mm. Power section !3 AC IN connector Connect the included power cord here. First, connect the power cord to the MGP unit, and then plug it into an AC outlet.

y STEREO INSERT (L, R) These are unbalanced TRS (tip=send/out; ring=return/in; sleeve=ground) bidirectional jacks. You can use these jacks to connect a graphic equalizer or other signal processor. Connecting an INSERT jack requires a special insertion cable. Refer to the NOTE for INSERT in "Mono inputs" (page 22). !4 Power switch Turns power to the unit ON or OFF.

Press the switch to the " " position to turn on the power. Press the switch to the " " position to turn off the power. CAUTION • Rapidly turning the unit ON and OFF in succession can cause it to malfunction. After turning the unit OFF, wait for about 6 seconds before turning it ON again. • Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet. *u* TALKBACK MIC IN This is an XLR-3-31 type unbalanced input jack for connecting a talkback microphone. *i* LAMP This is an XLR-4-31 connector that supplies power to a separately sold gooseneck lamp (the Yamaha LA1L is recommended). NOTE If you connect a lamp with different connectors or you short-circuit it by mistake, the protective circuit that powers off only the LAMP power supply will be triggered. To recover the LAMP power supply, turn the unit off, and wait for about 10 seconds before turning it on again.

o GROUP OUT (1-4) These impedance-balanced (*) TRS jacks output the GROUP 1-4 signals. Use these jacks to connect to the inputs of a multi-track recorder, external mixer, or similar device. !0 STEREO OUT (L, R) These are balanced XLR and TRS output jacks that output the mixed stereo signal. They output the signal adjusted by the STEREO master fader. Connect these jacks to the power amplifier that drive your main speakers. !1 MONO OUT This is a balanced XLR-3-32 output jack that outputs the signal adjusted by the MONO master fader. This outputs a mono signal of the mixed stereo bus (L/R). Connect to a subwoofer speaker or an expanded SR system. !2 SEND (AUX1-AUX6) These are balanced XLR-3-32 output jacks (1: Ground; 2: Hot; 3: Cold). These jacks output the signals from the AUX1 – AUX6 buses, respectively.

Use these jacks to connect to an effects processor or monitor system, for example. MGP32X/MGP24X Owner's Manual 23 Basic Operations and Display This chapter explains the basic operations about how to view the display and operate the screen. *e* USB status Displays the inserted (highlighted) or disconnected (normal display) status of a USB device, the playback status (>), the playback/recording time, and the title (up to 16 characters) of an audio file. Viewing the display The display indicates the various parameters for operating the unit. *r* COMP status Displays the status of the COMP (compressor) when on (highlighted) or off (normal display).

Also, the GR (Gain reduction) indicator displays the status of the signal when compressed (highlighted) or not compressed (normal display). □ Setting screen Press a button in the display section to display the desired screen. *t* iPod status Displays the connected (highlighted) or disconnected (normal display) status of the iPod/iPhone. Example: Screen when pressing the COMP button Page number Screen name Page name □ Dialog screen These screens appear when you need to confirm the operation you just performed or when a problem has occurred. Parameter setting area □ Confirmation screen This screen appears when confirmation is required.

Press Knob 2 to execute the operation, and press Knob 1 to cancel it.



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Function (Knob 1) Function (Knob 2) □ HOME screen This screen appears when pressing the HOME button. Knob 1 HOME button Knob 2 □ Message screens This screen lists the status of the settings. You cannot change the settings in the HOME screen. q w e r t • MESSAGE This screen appears when the operation is not executed because the conditions are not right, or when user memory is initialized. • WARNING This screen appears when an inappropriate device is connected to the USB connector, or when an abnormal exit occurs during an operation. • ERROR This screen appears when a problem is detected in the MGP32X/MGP24X internal connection. Press Knob 2 to close the screen. In the case of MESSAGE, the screen will automatically close after a few seconds without pressing Knob 2. These screens will display the following messages according to the level of warning when a problem is detected in the unit.

Example: WARNING screen q FX1, FX2 status Displays the status of the FX1 RTN (or FX2 RTN) channel when on (highlighted) or off (normal display), and the selected program. Example When FX1 is on When FX1 is off w GEQ status Displays the status of the GEQ when on (highlighted) or off (normal display), and the graphics. Pressing the HOME button switches the L and R displays. 24 MGP32X/MGP24X Owner's Manual Basic Operations and Display Operations of the screen □ Switching the pages The setting screen for each button consists of multiple pages. Press each button (FX1, GEQ, SETUP, etc.) in the display section repeatedly if necessary to select the desired page. Example: Pages when pressing the SETUP button □ Adjusting the legibility of the display 1. Press the SETUP button repeatedly if necessary until the (1/4) LCD page appears. 2. Rotate Knob 1 to select "Contrast," and then rotate Knob 2 to adjust the legibility of the display.

You can adjust the Contrast over a range of 0 to 10. NOTE You can adjust the legibility by rotating Knob 2 while holding down the HOME button. □ Setting or changing the value Generally, rotate Knob 1 to select the desired parameter, and then rotate Knob 2 to change or set the corresponding parameter value.

□ Adjusting the brightness of the display backlight 1. Press the SETUP button repeatedly if necessary until the (1/4) LCD page appears.

Knob 1 Select parameters Knob 2 Change parameter values 2. Rotate Knob 1 to select "Backlight," and then rotate Knob 2 to adjust the brightness. □ Displaying or selecting a list The FX1 (or FX2) screen displays the effect program list, and the USB screen displays the title list of songs. Rotate or press Knob 1 on the top page (first page) of each screen to call up the list. Rotate Knob 1 to select the desired program/title, and then press Knob 1 to actually select it.

You can adjust the Backlight over a range of 0 to 3. □ Exiting the screen To return to the HOME screen from the current screen, press the HOME button. MGP32X/MGP24X Owner's Manual 25 Using Effects (FX) The MGP32X/MGP24X features two built-in effects; FX1 and FX2. FX1 has REV-X reverb (8 types), while FX2 has SPX multi effects (a total of 16 types, including reverb, delay, echo). The effects give you a wide range of tools to further enhance your mixes. 8. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ This is especially useful for applying reverb to the delay sound. This section shows you how to send the signal from FX2 to FX1. Displaying FX1 and FX2 together The selected programs and parameters of FX1 and FX2 can conveniently be displayed on one screen together. You can select the program and operate the parameter on the same screen.

1. 1. Press the FX2 button below the display to display the (1/2) MAIN page. Press the FX1 button and the FX2 button together. Both FX1 and FX2 screens appear on one screen. 2. Rotate or press Knob 1 to display the program list. 3. Rotate Knob 1 to select "08 DELAY" or "09 SIGNAL DELAY" and then press Knob 1 to , actually call it up. Program mode Parameter mode NOTE To switch the program mode and the parameter mode, press the FX1 or FX2 button. □ Selecting a program 1. 4. Turn on the ON switch of the input channel, and then rotate the FX2 knob to send the signal to FX2 RTN. "t" position Press the FX1 (or FX2) button repeatedly if necessary to call up the Program mode display (indicated by "PGM" at the bottom). Program mode Turn on 2. Rotate or press Knob 1 for FX1, and Knob 2 for FX2. The program list appears. 3. Rotate Knob 1 for FX1 or Knob 2 for FX2 to 5. @@ Rotate Knob 1 (for FX1) or Knob 2 (for FX2) to 6.

@@@ @ You can select the 14bandGEQ or the Flex9GEQ. @@@@ @@@@ @@@@ For example, F=1.25k indicates a frequency of 1.25kHz. 2. @@@@ For example, G=4.5 indicates a gain of +4.5dB. @@@@ @@@@ Press Knob 2 to select "OK," or Knob 1 to can5. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ Press Knob 2 again to select "OK," or Knob 1 to cancel.

The link is disabled. 4. When the feedback point is found, rotate Knob 2 to lower the offset to a minus value in order to reduce feedback. 5. When the final adjustment has been made, press Knob 2. Offset will be added only to the setting value of the adjusted frequency. 6. Repeat steps 2 -5 as necessary to adjust the GEQ settings. MGP32X/MGP24X Owner's Manual 29 Using Graphic EQ Calling up/saving the GEQ program Eight user programs are available that you can freely edit and save on the MGP32X/MGP24X. □ Overwriting another user program 1.

Rotate or press Knob 1 to call up the program list. □ Calling up the program 1. Press the GEQ button below the display repeatedly if necessary until the PROGRAM page appears. 2. Rotate Knob 1 to select the user program of the destination for saving, then press and hold Knob 2 for at least two seconds. The screen prompts you to save the program. 3. Press Knob 2 to select "OK," or Knob 1 to can2. Rotate or press Knob 1 to call up the program list. cel. The program will be overwritten. NOTE You can also cancel the operation by pressing the GEQ button. 3. Rotate Knob 1 to select the desired program and press Knob 1 to actually call it up. □ Saving the program □ Overwriting the selected user program 1. Press and hold Knob 2 for at least two seconds while the user program is selected. The screen prompts you to save the program. 2. Press Knob 2 to select "OK," or Knob 1 to cancel. The program will be overwritten.

NOTE You can also cancel the operation by pressing the GEQ button. 30 MGP32X/MGP24X Owner's Manual Using the Compressor About the master compressor The MGP32X/MGP24X features two master compressors: Comp and Multiband. The Comp type has a simple single band, while the Multiband type has three separate bands. The master compressor controls peak level by applying the compressor to the stereo L/R bus, and raises the overall sound level. There are three preset programs installed, and you can save up to five user programs as desired. □ Specifying the threshold 1. Press the COMP button below the display repeatedly if necessary until the (2/4) THRESHOLD page appears.



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2. Rotate Knob 1 to specify the threshold, while checking the gain reduction meter on the right side of the screen to determine the compressor depth. If Multiband is selected, the thresholds at H (High), M (Mid) and L (Low) are linked.

Gain reduction meter Specifying the compressor settings 1. Press the COMP button below the display repeatedly if necessary until the (1/4) MODE page appears. Type: Comp Type: Multiband Knob 1 Knob 2 □ Adjusting the compressor settings 1. Press the COMP button below the display repeatedly if necessary until the (3/4) PARAMETER page appears. 2.

Rotate Knob 1 to select "COMP ON," and rotate Knob 2 to set to "ON." 3. @@@@ Rotates or press Knob 1 to display the program list. 3. @@@@ NOTE • You can also cancel saving by pressing the COMP button.

@@@ 35 hours • MP3 192kbps: Approx. 23 hours • MP3 256kbps: Approx. 17 hours • MP3 320kbps: Approx. 14 hours • WAV: Approx. @@ Press the USB button below the display repeatedly if necessary until the (3/3) PARAMETER page appears. NOTE • Recording and playback cannot be done simultaneously. • The signal being recorded cannot be input to the input channel. □ About the USB device You can use commercially-available USB flash memory, SSD drives, and USB HDD drives that support the USB mass storage class. NOTICE • While data is being accessed, such as when recording, playing, or saving a file, you must not disconnect the USB device from the USB IN connector or power-off the MGP32X/MGP24X. Doing so may damage your USB device, or damage the data in the MGP32X/MGP24X and/or in the USB device.

- Connect the USB device firmly and securely to the USB IN connector. Make sure to check the direction and sides of the USB device and do not force the USB device into the connector. Knob 1 Knob 2 3. Rotate Knob 1 to select "RecSource," and then rotate Knob 2 to select the "STEREO" bus or the "MATRIX1/2" bus. 4. Rotate Knob 1 to select "Rec Form," and then rotate Knob 2 to select one of the following recording formats: "MP3:128k," "MP3:192k," "MP3:256k," or "WAV." 5. To adjust the recording level, proceed as follows. q Press the USB button below the display repeatedly if necessary until the (2/3) REC LEVEL page appears. Recording level Level meter □ USB device capacity Operation of USB devices with capacities of up to 64GB has been verified.

NOTICE This does not necessarily guarantee the operation of all USB devices. It is recommended that you check the operation of the USB device beforehand. □ USB device format FAT32 format is supported. The maximum size for one file is 2GB. w While playing back the sound source to be recorded, rotate Knob 1 to adjust the recording level while checking the level meter.

The recording level can be adjusted between -48dB and +24dB. Each level of the REC OUT L/R will be displayed on the level meter. □ Supported file formats • Recording: WAV, MP3 • Playback: WAV, MP3, AAC □ Continue to next page MGP32X/MGP24X Owner's Manual 33 Recording/Playing back 6. Press the REC button. Playing back songs from a USB device 1.

Connect a USB device containing audio files to the USB IN connector. The USB ACCESS indicator lights while the USB device is being accessed by the unit. The REC indicator flashes briefly, indicating preparation for recording. Once the indicator lights steadily, you can begin recording. 2. Specify the output assignment for the playback. □ To output to the STEREO bus Set the TO STEREO/TO MONITOR switch in the USB IN section to "TO STEREO" (). 7. To stop recording, press the REC button again. The screen prompts you to stop recording.

Set to TO STEREO () 8. Press Knob 2 to select "OK," or Knob 1 to cancel. The recording stops and an audio file is created. The audio file will be saved in the "MGP_REC" folder. NOTE AUTO REC function: If you press the FWD button while recording, the current recording is completed and recording to a new file starts. □ To output to MONITOR OUT Set the TO STEREO/TO MONITOR switch in the USB IN section to "TO MONITOR" (). □ To output to channels 29/30 {21/22} Set the input select switch for the channel 29/30 {21/22} to "USB IN" (). 9. To audition the recorded content, proceed as follows. q Press the USB button below the display repeatedly if necessary until the (1/3) PLAYER page appears.

w Rotate or press Knob 1 to display the title list. The recorded song is saved with the name "Untitled X" (X is a number) in the "MGP_REC" folder. NOTE • Information such as a title or artist cannot be edited on the unit. You will need to import the file to a computer and edit it there. • Since a calendar function is not installed in the unit, the date of the file is fixed.

Set to USB IN () NOTE Do not use both the STEREO/MONITOR level control (USB IN knob) and the level control for channels 29/30 {21/22} at the same time. Raising both may cause unnatural flanging in the sound. e Rotate Knob 1 to select the recorded song, and then press Knob 1 to confirm it. Playback starts. 3.

Press the USB button below the display repeatedly if necessary until the (1/3) PLAYER page appears. Title Artist information Playback mode One song All songs Repeat one song Progress bar Elapsed recording/playback time (hours, minutes, seconds) Repeat all songs Remaining recording/playback time (hours, minutes, seconds) 34 MGP32X/MGP24X Owner's Manual Recording/Playing back NOTE • The file name is indicated if there is no title or artist information of the song. For WAV format files, the file name is indicated since there is no title or artist information in the file. • The title, artist information, and file name support half-size alphabet and numbers only. Other characters are converted into "□." • "Recording..." appears at the location of the title while recording. □ Pausing, fast forwarding, or fast rewinding the playback Use the buttons in the transport section. 4. Press the REW or FWD button in the transport section to select the playback song, and then press the PLAY button. Playback starts.

□ Pausing Press the PLAY button during playback to pause playback. Pressing the PLAY button a second time resumes playback from the stopped point. While paused, the indicator flashes. □ Fast forwarding/rewinding 5. Adjust the sound volume of the song. □ When outputting to the STEREO bus or Holding down the REW or FWD button for at least one second starts fast forwarding or rewinding while a song is playing. Releasing the button resumes normal playback from that point. MONITOR OUT Rotate the USB IN knob to adjust the volume. □ When outputting to the channel 29/30 {21/22} Use the channel fader to adjust the volume. NOTE • Gain may be high for an audio file encoded from the audio CD.

As necessary, adjust the gain as follows: press the USB button □ call up the "(3/3) PARAMETER" screen □ select and adjust "PB Level.



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” • Avoid adjusting both outputs at the same time because of the delay of the signal path. □ Navigating through a song Press the REW or FWD button to move a song. • Pressing the REW button during playback moves to the beginning of the current song or moves to the beginning of the previous song and starts playback, depending on the song playback position. • Pressing the FWD button during playback moves to the beginning of the next song and then starts playback.

• Pressing the REW or FWD button while the song is stopped or paused moves to the previous or next song. 6. Press the PLAY button again. Playback is paused. □ Playing back a song from the title list 1.

Press the USB button below the display repeatedly if necessary until the USB (1/3) PLAYER page appears. 2. Rotate or press Knob 1 to display the title list. • When you select the line of the folder () and press Knob 1, the content of the folder appears. • Selecting the line of and pressing Knob 1 moves to the upper folder. To the upper folder Song Folder NOTE The title list supports half-size alphabet and numbers only. Other characters are converted into “□.” 3. Rotate Knob 1 to select a song (e), and then press Knob 1. Playback starts.

MGP32X/MGP24X Owner’s Manual 35 Recording/Playing back Playing back songs from an iPod/iPhone Connecting your iPod or iPhone to the unit lets you play back the song. NOTE You cannot make recordings to an iPod or iPhone. 3. Operate the iPod (or iPhone) to play back the desired song. 4. Adjust the volume of the song. □ When outputting to the STEREO bus or to MONITOR OUT Rotate the iPod IN knob to adjust the volume. 1. Use a USB cable to connect your iPod (or iPhone) to the iPod/iPhone IN connector. When the iPod or iPhone is connected to and recognized by the unit, the iPod indicator lights.

□ When outputting to channels 31/32 {23/24} Use the channel fader to adjust the volume. NOTE Avoid adjusting both outputs at the same time because of the delay of the signal path. 5. Operate the iPod (or iPhone) to stop the song. iPod/iPhone IN connector Playback stops.

Specifying the recording/playback settings Lit 1. 2. Specify the output assignment for playback. □ To output to the STEREO bus Set the TO STEREO/TO MONITOR switch in the iPod IN section to “TO STEREO” (). Press the USB button below the display repeatedly if necessary until the (3/3) PARAMETER page appears.

Set to TO STEREO () 2. Rotate Knob 1 to select the desired parameter, and then rotate Knob 2 to set the parameter value. Each parameter lets you make the following settings. Parameter name RecSource Rec Level Parameter value/ range STEREO, MATRIX1/2 □ To output to MONITOR OUT Set the TO STEREO/TO MONITOR switch in the iPod IN section to “TO MONITOR” (). □ To output to channels 31/32 {23/24} Set the input select switch for channels 31/32 {23/24} to “iPod IN” (). Content Selection of the recording signal source Adjustment of the record -48dB to +24dB ing level Selection of the recording format type Adjustment of playback level Selection of playback mode Adjustment of the input level from the iPod or iPhone MP3:128k, 192k, 256k, 320k, WAV * “k” is an abbreviation for “kpbs.” -48dB to 0dB One, All, Repeat One, Repeat All -48dB to 0dB Rec Form PB Level PB Mode iPodLevel Set to iPod IN () NOTE NOTE Do not use both the STEREO/MONITOR level control (USB IN knob) and the level control for channels 31/32 {23/24} at the same time. Raising both may cause unnatural flanging in the sound. Since high transmission speed is required for recording formats such as WAV and MP3:320k, some USB devices may not be able to record songs. In this case, change the recording format to a format with a high compression rate, such as MP3:128k, MP3:192k, or MP3:256k.

36 MGP32X/MGP24X Owner’s Manual Using Other Functions Applying the Low Pass Filter (LPF) A Low Pass Filter (LPF) can be applied to the signal output from the STEREO bus L/R to the MONO OUT connector. LPF is commonly used for subwoofer applications. 2. Turn on () the DUCKER switch of the channel to which the device is connected in step 1, and then rotate the GAIN knob to adjust the input level of the channel. Turn on 1. Press the SETUP button below the display repeatedly if necessary until the SETUP (2/4) LPF (MONO) page appears. Level adjustment 2. Rotate Knob 1 to select “LPF ON,” and then rotate Knob 2 to set it to “ON.” The LPF indicator next to the MONO master fader comes on 3. Connect a microphone to the input source channel.

For the MGP32X unit connect the microphone to CH24 and for the MGP24X unit connect the microphone to CH16, or assign the source channel to GROUP OUT 1. 3. Rotate Knob 1 to select “Frequency,” and then rotate Knob 2 to set the frequency. 4. Press the SETUP button below the display repeatedly if necessary until the (3/4) DUCKER page appears.

Using the Ducker function The Ducker function automatically lowers the level of background music to accommodate the voice of an announcer coming in on another channel. □ Ducker signal flow CH29/30 (CH21/22) CH31/32 (CH23/24) CH24 (CH16) GROUP1 DUCKER SOURCE Volume detection Volume control 5. Confirm that “Source” is selected, and then rotate Knob 2 to set the input source to “CH24 {CH16}” or “GROUP1.” If you automatically control the volume of background music via an independent microphone input, it is recommended that you set the input source to CH24 {CH16}. If you want to control the volume of background music via multiple microphones inputs, you should set the input source to “GROUP1.

” 6. Adjust the input of the microphone to an appropriate level. 1. Connect a music player or device for playing background music. Connect the device to CH29/30 or CH31/32 {CH21/22 or CH23/24}. To connect the USB device or iPod/iPhone, set the input select switch to USB IN () or iPod IN () respectively. 7. Turn on () the ON switch of the channel to which the microphone is connected in step 3, and then raise the channel fader to around “0” (nominal). Turn on “0” Set to USB IN () Set to iPod IN () □ Continue to next page MGP32X/MGP24X Owner’s Manual 37 Using Other Functions 8. Play the background music, and listen to confirm that the sound volume automatically turns down when you speak into the microphone.

NOTE The volume on the input source is detected after fader adjustment. It is affected by the setting of the ON switch and/or the channel fader. Using the Leveler function The Leveler function automatically maintains a consistent sound volume, even when using sound sources that have different mastering levels.

1. Connect a USB device or an audio player such as an iPod/iPhone to the unit. □ Making detailed Ducker settings 1. Press the SETUP button below the display repeatedly if necessary until the (3/4) DUCKER page appears.



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