



MIDAS M32R LIVE Digital Console for Live and Studio with 40 Input Channels User Guide

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MIDAS M32R LIVE Digital Console for Live and Studio with 40 Input Channels



Important Safety Instruction

Terminals marked with this symbol carry an electrical current of sufficient Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modifications should be performed only by qualified personnel. This symbol, wherever it appears, alerts you to the presence of enclosure – voltage that may be sufficient to constitute a risk of shock. This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the No user-serviceable parts inside. Refer servicing to qualified personnel.

Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong.
5. 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 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.
6. 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 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Use only attachments/accessories specified by the manufacturer.
 7. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
 8. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time.
 9. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
 10. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
 11. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances.
 12. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
 13. Use this apparatus in tropical and/or moderate climates.

LEGAL DISCLAIMER

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Tribe's Limited Warranty, please see complete details online at music-group.com/warranty.

Important information

1. Register online. Please register your new MUSIC Tribe equipment right after you purchase it by visiting midasconsoles.com. Registering your purchase using our simple on line form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. Malfunction. Should your MUSIC Tribe Authorized Reseller not be located in your vicinity, you may contact the MUSIC Tribe Authorized Fulfiller for your country listed under "Support" at midasconsoles.com. Should your country not be listed, please check if your problem can be dealt with by our

“Online Support” which may also be found under “Support” at midasconsoles.com. Alternatively, please submit an online warranty claim at midasconsoles.com BEFORE returning the product.

3. Power Connections. Before plugging the unit into a power socket, please make sure you are using

Control Surface

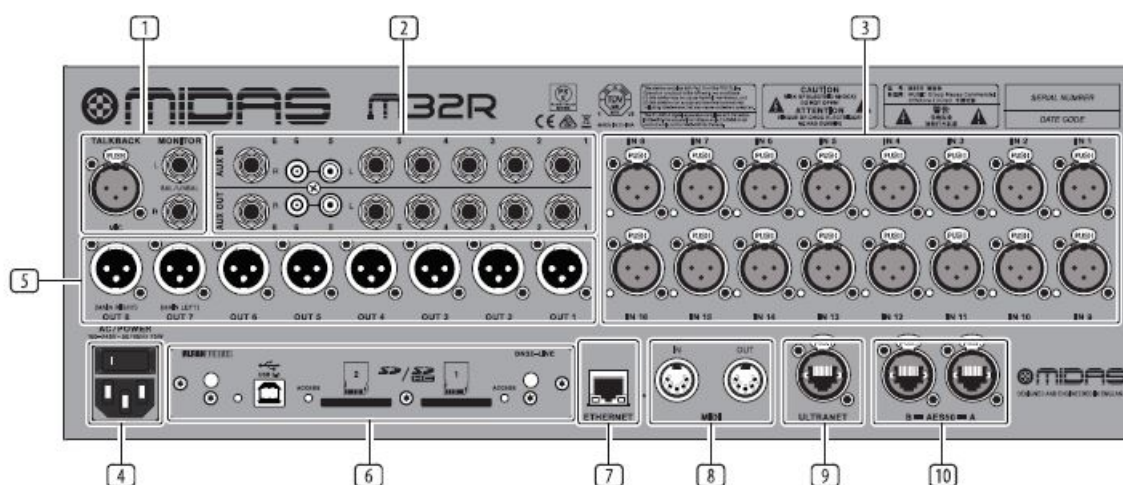


1. ON FIG/PREAMP – Adjust the preamp gain for the selected channel with the GAIN rotary control. Press the 48 V button to apply phantom power for use with condenser microphones and press the 0 button to reverse the channel's phase. The LED meter displays the selected channel's level. Press the LOW CUT button and select the desired high-pass frequency to remove unwanted lows. Press the VIEW button to access more detailed parameters on the Main Display.
2. GATE/DYNAMICS – Press the GATE button
3. EQUALISER – Press the EQ button to engage this section. Select one of the four frequency bands with the LOW, LO MID,
4. HI MID and HIGH buttons. Press the MODE button to cycle through the types of EQ available. Boost or cut the selected frequency with the GAIN rotary control. Select the specific frequency to be adjusted with the FREQUENCY rotary control and adjust the bandwidth of the selected frequency with the WIDTH rotary control. Press the VIEW button to access more detailed parameters
5. CTI MONITOR – Adjust the level of the monitor outputs with the MONITOR LEVEL rotary control. Adjust the level of the headphones output with the PHONES LEVEL rotary control. Press the MONO button to monitor the audio in mono. Press the DIM button to reduce the monitor volume. Press the VIEW button to adjust the amount of attenuation along with all other monitor-related functions.
6. Cil RECORDER – Connect an external memory stick to install firmware updates, load and
7. MAIN BUS – Press the MONO CENTER or MAIN STEREO buttons to assign the channel to the main mono or stereo bus. When MAIN STEREO (stereo bus) is selected, the PAN/BAL adjusts to the left-to-right positioning.

Adjust the overall send level to the mono bus with the M/C LEVEL rotary control. Press the VIEW button to access more detailed parameters on the Main Display.

8. **MAIN DISPLAY** – The majority of the M32R's controls can be edited and monitored via the Main Display. When the VIEW button is pressed on any of the control panel functions, it is here that they can be viewed. The main display is also used for accessing the 60+ virtual effects. See section 3. Main Display.
9. **ASSIGN** – Assign the four rotary controls to various parameters for instant access to commonly-used functions. The LCD displays provide quick reference to the assignments of the active layer of custom controls. Assign each of the eight custom ASSIGN buttons (numbered 5- to various parameters for instant access to commonlyused functions. Press one of the SET buttons to activate one of the three layers of customassignable controls. Please refer to the User Manual for more details on this topic.
10. **LAYER SELECT** – Pressing one of the following buttons selects the corresponding layer on the appropriate channel:
 - **INPUTS 1-8, 9-16, 17-24 & 25-36-** the first, second, third and fourth blocks of eight channels assigned on the ROUTING/ HOME page
 - **FX RET** – allows you to adjust the levels of the effects returns.
 - **AUX IN / USB** – the fifth block of six channels & USB Recorder, and eight channel FX returns (1L ... 4R)
 - **BUS 1-8 & 9-16-** this allows you to adjust the levels of the 16 Mix Bus Masters, which is useful when including Bus Masters into DCA Group assignments, or when mixing buses to matrices 1-6
 - **REM** – DAW Remote Button – Press this

Rear Panel



1. MONITOR/CONTROL ROOM OUTPUTS

connect a pair of studio monitors using

2. XLR or 1/4"

cables. Also includes a 12 V / 5 W lamp connection.

3. AUX IN/OUT

Connect to and from external equipment via 1/4" or RCA cables.

4. INPUTS 1 -16

Connect audio sources (such as microphones or line level sources) via XLR cables.

5. POWER

The IEC mains socket and

6. ON/OFF

switch.

7. **OUTPUTS 1 – 8**

Send analogue audio to external equipment using XLR cables. Outputs 15 and 16 by default carry the main stereo bus signals.

8. **DN32-LIVE INTERFACE CARD**

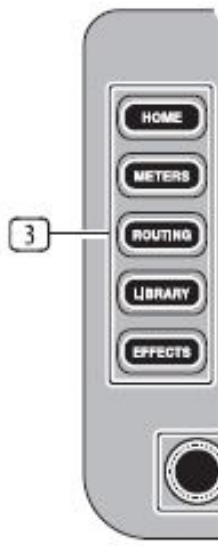
Transmit up to 32 channels of audio to and from a computer via USB 2.0, as well as record up to 32 channels to SD/SDHC cards. REMOTE CONTROL INPUTS- Connect to a PC for remote control via Ethernet cable.

9. **ULTRANET**

Connect to a personal monitoring system, such as the BEHRINGER P16, via Ethernet cable.

10. **AESSO A/B**

Transmit up to 96 channels in and out via Ethernet cables. Please refer to the User Manual for more information on each of these topics.



1. **DISPLAY SCREEN**

The controls in this section are used in conjunction with the colour screen in order to navigate and control the graphical elements it contains. By including dedicated rotary controls that correspond to the adjacent controls on the screen, as well as including cursor buttons, the user can quickly navigate and control all of the colour screen's elements. The colour screen contains various displays that give visual feedback for the operation of the console, and also allow the user to make various adjustments not provided for by the dedicated hardware controls.

2. **CD MAIN/SOLO METERS**

This triple 24-segment meter displays the audio signal level output from the main bus, as well as the main centre or solo bus of the console.

3. **SCREEN SELECTION BUTTONS**

These eight illuminated buttons allow the user to immediately navigate to any of the eight master screens that address different sections of the console.

4. The sections that can be UP/DOWN/LEFT/RIGHT NAVIGATION CONTROLS-The LEFT and RIGHT controls allow for left-right navigation among the different pages contained within a screen set. A graphical tab display shows which page you are currently on. On some screens there are more parameters present than can be adjusted by the six rotary controls underneath. In these cases, use the UP and DOWN buttons to navigate

through any additional layers contained on the screen page. The LEFT and RIGHT buttons are sometimes used to confirm or cancel confirmation pop-ups. Please refer to the User Manual for more information on each of these topics.

- **LIBRARY – The LIBRARY**

screen allows loading and saving of commonly used setups for the channel inputs, effects processors, and routing scenarios. The LIBRARY screen contains the following tabs: channel: This tab allows the user to load and save commonly used combinations of the channel processing, including dynamics and equalisation. effects: This tab allows the user to load and save commonly used effects processor presets. routing: This tab allows the user to load and save commonly used signal routings.

- **EFFECTS – The EFFECTS**

screen controls various aspects of the eight effects processors. On this screen the user can select specific types of effects for the eight internal effects processors, configure their input and output paths, monitor their levels, and adjust the various effects parameters. The EFFECTS screen contains the following separate tabs: home: The home screen provides a general overview of the virtual effects rack, displaying what effect has been inserted in each of the eight slots, as well as displaying input/output paths for each slot and the I/O signal levels.

- These eight duplicate screens display all of the relevant data for the eight separate effects processors, allowing the user to adjust all parameters for the selected effect.

- **SETUP- The SETUP**

screen offers controls for global, high-level functions of the console, such as display adjustments, sample rates & synchronisation, user settings, and network configuration. The SETUP screen contains the following separate tabs: global: This screen offers adjustments

- network: This screen offers different controls for attaching the console to a standard Ethernet network. (IP address, Subnet Mask, Gateway.) scribble strip: This screen offers controls for various customisation of the console's LCD scribble strips. preamps: Shows the analogue gain for local mic inputs (XLR at the rear) and phantom power, including setup from remote stage boxes (e.g. DL16) connected via AESO. card: This screen selects the input/ output configuration of the installed interface card.

- **MONITOR**

Displays the MONITOR section's functionality on the Main Display.

- **SCENES**

This section is used to save and recall automation scenes in the console, allowing different configurations to be recalled at a later time. Please refer to the User Manual for more details on this topic.

- **MUTE GRP- The MUTE GRP**

screen allows for quick assignment and control of the console's six mute groups, and offers two separate functions: Mutes the active screen during the process of assigning channels to mute groups. This ensures that no channels are accidentally muted during the assignment process during a live performance. It offers an additional interface for muting/unmuting the groups in addition to the dedicated mute group buttons at the bottom of the console.

- **UTILITY – The UTILITY**

the 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

1. Hold down the select button for the channel you wish to change and press UTILITY.
2. Use the rotary controls below the screen to adjust parameters.
3. There is also a dedicated Scribble Strip tab on the SETUP menu.
4. Select the channel while viewing this screen to edit.

Using Buses

Bus Setup:

The M32R offers ultra flexible busing as each channel's bus sends can be independently Pre- or Post-Fader, (selectable in pairs of buses). Select a channel and press VIEW in the BUS SENDS section on the channel strip. Reveal options for Pre/Post/Subgroup by pressing the Down Navigation button by the screen. To configure a bus globally, press its SEL button and then press VIEW on the CON FIG/PREAMP section on the channel strip. Use the third rotary control to change configurations. This will affect all channel sends to this bus. Note: Mix buses can be linked in odd-even adjacent pairs to form stereo mix buses. To link buses together, select one and press the VIEW button near the CON FIG/PREAMP section of the channel strip. Press the first rotary control to link. When sending to these buses, the odd BUS SEND rotary control will adjust send level and even BUS SEND rotary control will adjust pan/balance.

Matrix Mixes

Matrix mixes can be fed from any mix bus as well as the MAIN LR and Centre/Mono bus. To send to a Matrix, first press the SEL button above the bus you want to send. Use the four rotary controls in the BUS SENDS section of the channel

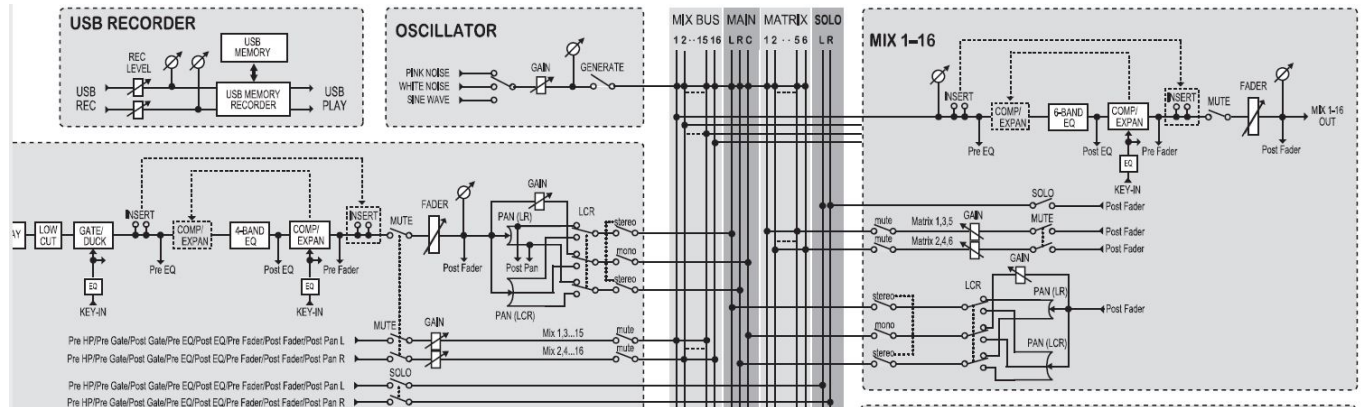
Firmware Updates & USB Stick Recording

1. Download the new console firmware from the M32R product page onto the root level of a USB memory stick.
2. Press and hold the RECORDER section's VIEW button while switching the console on to enter the update mode.
3. Plug the USB memory stick into the top panel USB connector.
4. The M32R will wait for the USB drive to become ready and then run a fully-automated firmware update.
5. When a USB drive fails to get ready, updating will not be possible and we recommend switching the console off/ on again for booting the previous firmware.
6. minutes longer than the regular boot sequence. To Record to the USB Stick:
 1. Insert the USB Stick into the port on the RECORDER section and press the VIEW button.
 2. Use the second page for configuring the recorder.
 3. Press the fifth rotary control under the screen to begin recording.
 4. Use the first rotary control to stop. Wait for the ACCESS light to turn off before removing the stick.

Notes:

Stick must be formatted for FAT file system. Maximum record time is approximately three hours for each file, with a file size limit of 2 GB. Recording is at 16-bit, 44.1 kHz or 48 kHz depending on console sample rate.

Block Diagram



Technical specifications

Input Processing Channels	32 Input Channels, 8 Aux Channels, 8 FX Return Channels
Output Processing Channels	8/16
16 aux buses, 6 matrices, main LRC	100
Internal Effects Engines (True Stereo / Mono)	8/16
Internal Show Automation (structured Cues/ Snippets)	500 / 100
Internal Total Recall Scenes (incl. Preamplifiers and Faders)	100
Signal Processing	40-Bit Floating Point
A/D Conversion (8-channel, 96 kHz ready)	24-Bit, 114 dB Dynamic Range, A-weighted
D/A Conversion (stereo, 96 kHz ready)	24-Bit, 120 dB Dynamic Range, A-weighted
1/0 Latency (Console Input to Output)	0.8 ms
Network Latency (Stage Box In > Console> Stage Box Out)	1.1 ms

MIDAS PRO Series Microphone Preamplifier (XLR)	16
Talkback Microphone Input (XLR)	1
RCA Inputs/ Outputs	2/2
XLR Outputs	8
Monitoring Outputs (XLR / 1/4" TRS Balanced)	2/2
Aux Inputs/Outputs(1/4" TRS Balanced)	6/6
Phones Output(1/4" TRS)	1 (Stereo)
AES50 Ports (KLARK TEKNIK SuperMAC)	2
Expansion Card Interface	32 Channel Audio Input/ Output
ULTRANET P-16 Connector (No Power Supplied)	1
MIDI Inputs/ Outputs	1 / 1
USB Type A (Audio and Data Import/ Export)	
USB Type B, rear panel, for remote control	
Ethernet, RJ45, rear panel, for remote control	

Design	MIDAS PRO Series
THD+N (0 dB gain, 0 dBu output)	< 0.01% unweighted
THD+N (+40 dB gain, 0 dBu to +20 dBu output)	< 0.03% unweighted
Input Impedance (Unbalanced/ Balanced)	10k0/10k0
Non-Clip Maximum Input Level	+23 dBu
Phantom Power (Switchable per Input)	+48V
Equivalent Input Noise@ +45 dB gain (150 0 source)	-125 dBu 22 Hz-22 kHz, unweighted
CMRR@ Unity Gain (Typical)	> 70dB
CMRR@ 40 dB Gain (Typical)	> 90dB

Fcc statement

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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Warning:

The operation of this equipment in a residential environment could cause radio interference.

Documents / Resources

	<p>MIDAS M32R LIVE Digital Console for Live and Studio with 40 Input Channels [pdf] User Guide</p> <p>M32R LIVE, Digital Console for Live and Studio with 40 Input Channels</p>
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