



MIDAS DP48 Dual 48 Channel Personal Monitor Mixer with SD Card Recorder User Guide

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MIDAS DP48 Dual 48 Channel Personal Monitor Mixer with SD Card Recorder



Introduction

Thank you for purchasing the DP48 Personal Monitor Mixer! The DP48 unit is housed in a compact format suitable for mounting on microphone stands with the optional DP48MB mounting bracket system (sold separately). All user controls are laid out for ease of use on the top panel, while all primary connectors are on the DP48's rear panel. The DP48 Dual Monitoring Mixer uses a low-latency, floating point audio engine to provide excellent stage and IEM (In Ear Monitoring) sound with independent mixes for one or two users. The mixer can be operated in two different modes: SINGLE (one mix for one musician, with dual MY GROUP knobs available) and DUAL (separate mixes for two musicians).

The DP48's AES50 connection provides 48 individual input channels at 48 kHz/24-bit resolution that can freely be mixed to 12 stereo groups. All 12 stereo groups feature semi-parametric 3-band EQ, compression and reverb sends. Mixes A and B each have their own EQ processing and an adjustable brickwall limiter to prevent excessive levels on the phones outputs. DP48 also includes an automatic configuration function to simplify Channel-to-Group assignments when setting up mixes. Now, instead of manually setting up your Groups from scratch, DP48 can automatically evaluate the AES50 datastream and assign to Groups 1-12 all channels that share specific common features, such as channel colours or channel names. This auto-configuration function thereby allows the engineer to easily distribute his mix structure throughout the connected IEM (In Ear Monitoring) world.

FEATURES

- Dual 48 channel personal monitor mixer compatible with MIDAS personal monitoring system hubs
- 12 stereo groups enable rapid creation and balancing of personal mixes from fully configurable stem groups
- Dual mix feature allows independent control of two complete monitor mixes
- Integrated SD card interface for stereo recording and playback of rehearsal sessions and performances
- Built-in stereo ambience microphone provides on-stage sound feed to remove sense of isolation with in-ear monitors
- Studio-quality reverb adds spatial ambience to personal in-ear mixes, independent from main console
- Remotely powered via direct AES50 connection from MIDAS hubs featuring Power over Ethernet (PoE)
- Separate DC power supply allows daisy-chaining of DP48 personal monitor mixers and use without any PoE hub
- Compatible with any 44.1/48 kHz AES50-equipped devices including Midas and Behringer digital consoles and I/O boxes
- Midas PRO SERIES and M32 console input channel labelling and colour information transmitted to DP48 personal monitor mixer via AES50 input channels
- AES50 return channels allow personal mixes to be sent back to the console or hub for connection to wireless IEM transmitters

- Remote operation up to 100 m via screened CAT5/5e cable
- Remote setup and control of DP48 personal monitor mixer via MIDAS hubs
- Full remote control of another DP48 when both connected to the same hub or used in daisy chain configuration
- High-contrast 2.4" colour TFT display screen provides clear overview of mix parameters, meters and group assignments
- Analogue stereo auxiliary input for local click track
- High power headphone output for use in all stage monitoring environments
- Fully adjustable limiter allows for safe monitoring levels within sound exposure limits
- Mounts securely on microphone stand with DP48MB adaptor (not included)
- 10-Year Warranty Program*
- Designed and engineered in the U.K.



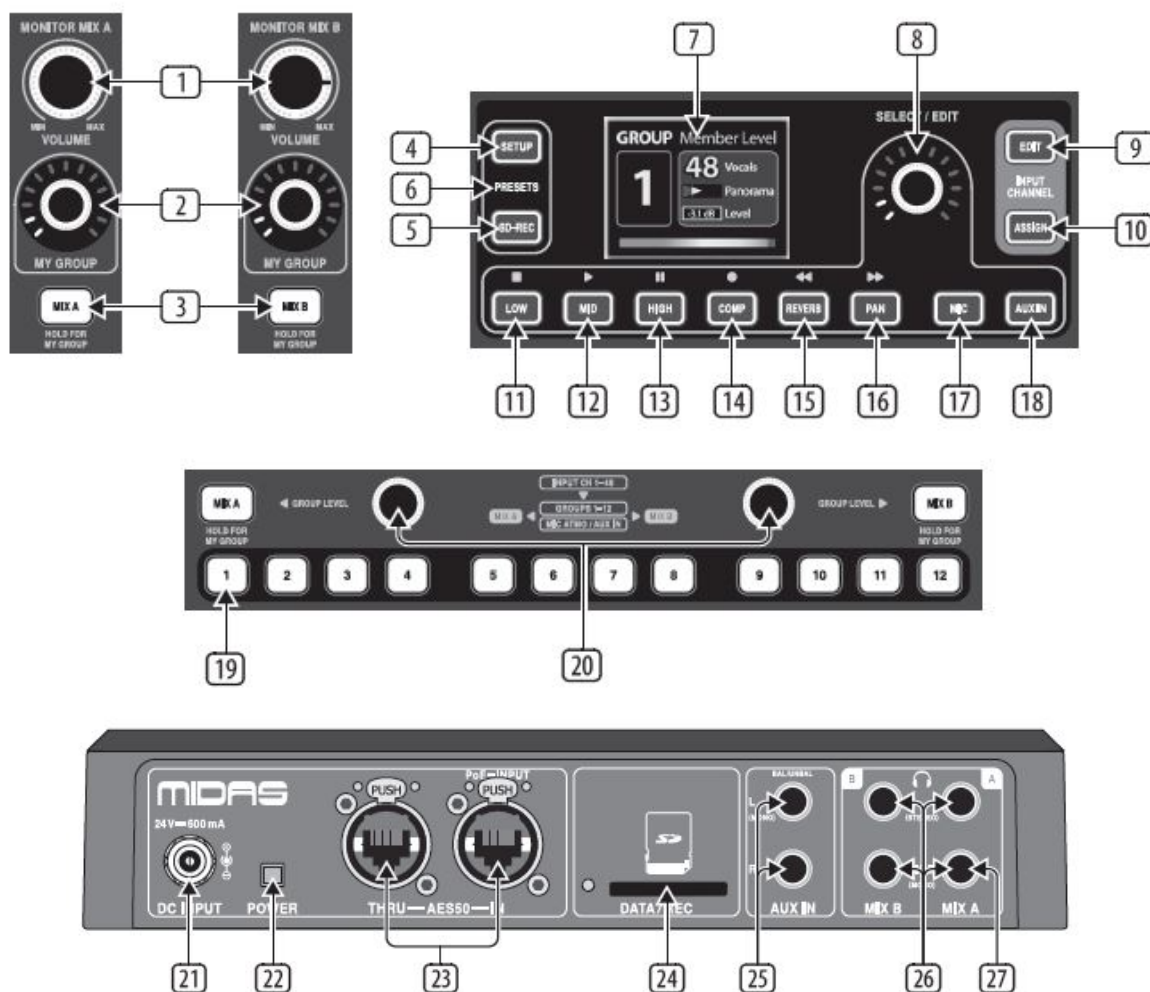
*Warranty details can be found at musictribe.com/support

Top and Rear Panels

1. VOLUME knob controls the overall output volume for the knob's respective mix.
2. MY GROUP knob can be assigned to one of the 12 Groups to permanently control that Group's level on the respective MIX A/MIX B output
3. MIX A/MIX B buttons allow you to select the mix's processing, including EQ, Limiter and Reverb return.(1)
VOLUME knob controls the overall output volume for the knob's respective mix.
4. SETUP button accesses the settings mixer modes, SD recorder, reverb type, AUX IN input, ambience mic, brightness, remote control and other general preferences.
5. SD-REC button opens the 2-track recording/playback operations when a FAT32 formatted SD card is present in the rear panel slot (see 24).
6. PRESETS (SETUP and SD-REC pressed concurrently) allows you to store and load complete mix presets. You can import/export mix presets on SD cards, or use one of the 12 internal memory slots. Use the RESET function to clear the 12 memory slots and re-establish the preferred factory status.
7. DISPLAY shows data about the current mix, including parameters, channel levels and channel groups.
8. SELECT/EDIT push encoder allows you to select and adjust various parameters.
9. EDIT button allows access to the Level and Pan adjustments for input signals assigned to the selected Group. The default setting for Level and Pan is center. The selected Group will be soloed automatically while making adjustments in Edit Mode. ASSIGN button is used to assign channels to groups.
 - The selected AES50 input channel will be soloed automatically to make channel assignments easier.
 - When either a MIX A/MIX B button OR any Group button is active, then the processing (i.e., EQ, Compressor and Reverb) for that Group or mix can be adjusted.
10. LOW () button selects the bass equilisation parameter for the currently-selected group, or for the selected Mix

- A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The LOW () button also acts as a control for SD recording/playback.
11. (12) MID () button selects the mid-range equalisation parameter for the currently-selected group, or for the selected Mix A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The MID() button also acts as a control for SD recording/playback.
 12. MID () button selects the mid-range equalisation parameter for the currently-selected group, or for the selected Mix A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The MID() button also acts as a control for SD recording/playback.
 13. HIGH () button selects the treble equalisation parameter for the currently-selected group, or for the selected Mix A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The HIGH() button also acts as a control for SD recording/playback.
 14. COMP() button opens the Group COMPRESSOR or LIMITER windows, depending on the selected GROUPS 1-12 or MIX A/MIX B button:
 - When GROUPS 1-12 buttons are selected, you can adjust that Group's compression settings
 - When MIX A or MIX B buttons are selected, you can adjust the peak limiting threshold for the selected mix. (NOTE: The limiter is always on.) The COMP() button also acts as a control for SD recording/playback.
 15. (15) REVERB(<<) button opens adjustment dialogs with these parameters:
 - Reverb send level for the selected group
 - Reverb return level for the selected mix The REVERB(<<) button also acts as a control for SD recording/playback.
 16. PAN (>>) button accesses panorama settings for the currently-selected Group, sent to MIX A and MIX B. The PAN (>>) button also acts as a control for SD recording/playback.
 17. MIC button selects the ambient mic audio for equaliser or mix level adjustment. Any of the illuminated neighbouring buttons (LOW, MID, HIGH or PAN) may be selected for editing.
 18. AUX IN button selects the auxiliary audio input for equaliser or mix level adjustment. Any of the illuminated neighbouring buttons (LOW, MID, HIGH or PAN) may be selected for editing.
 19. GROUPS 1-12 buttons select Group audio for equaliser or mix level adjustment. Any of the illuminated buttons (LOW, MID, HIGH, COMP, REVERB or PAN) may be selected for editing.
 20. GROUP LEVEL knobs allow direct
 21. level adjustment for any Group 1-12 buttons, going to MIX A or MIX B.
 22. POWER button switches the uni on and off.
 23. (23) AES50 THRU/IN EtherCON sockets provide connection to digital consoles. The AES50 connection can pass audio and PoE data in both directions via shielded Cat-5e Ethernet cables. The AES50 IN socket also accepts remote PoE (Power over Ethernet) for adapter-free operation for the first DP48 connected over AES50. Each socket has a pair of red and green LEDs, which indicate the following:
 - Green pulsating and red extinguished = valid audio and valid control data; active link.
 - Green constantly illuminated and red extinguished = valid audio and valid control data; standby link.
 - Green extinguished and red illuminated = no clock sync available, no audio; link has failed.
 24. (24) DATA/REC slot allows you to record a personal stereo mix directly to SD card media. Mixes recorded to a SD card can be played back to Mix A or Mix B directly (the playback Level is set in pg. 3/8 of the Setup menu).
 25. AUX IN inputs allow additional mono (L input only) inputs to be routed into the mix using cables with ¼" TRS connectors (e.g., for inserting a local click track or
 26. PHONES A/B outputs sends the active mix out for monitoring over headphones or other monitoring systems.

27. MONO output jacks can be used to send out a line-level, balanced mono signal over cables with ¼" TRS connectors (e.g., for feeding a local stage monitor).



About this manual

This is the operation manual for the DP48 Personal Monitor Mixer. This manual is intended to help get your unit installed and in operation as quickly as possible by giving you unpacking, installation, connection, setting up and operating instructions. To help familiarise you with the DP48, there is a description of the top and rear panels, along with easy-to-follow user instructions.

For additional information

For an extra overview and summary of DP48's signal flow and architecture, see the supplemental Block Diagram/Operations Chart posted to the DP48 product page online at www.midas.com/p/P0BMX/Downloads.

Important Safety Instructions

WARNING

- Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.
- This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the 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

accompanying literature. Please read the manual.

Caution

- To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.
 - 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.
 - 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. Follow all instructions.
 5. Do not use this apparatus near water.
 6. Clean only with dry cloth.
 7. Do not block any ventilation openings.
 8. Install in accordance with the manufacturer's instructions.
 9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 10. 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. 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.
 11. 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.
 12. 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.
 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
 15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
 16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
 17. 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 that are generally associated with EEE. At the same time, your

cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.



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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 musictribe.com/warranty

Documents / Resources

	<p>MIDAS DP48 Dual 48 Channel Personal Monitor Mixer with SD Card Recorder [pdf] User Guide</p> <p>DP48 Dual 48 Channel Personal Monitor Mixer with SD Card Recorder, DP48, Dual 48 Channel Personal Monitor Mixer with SD Card Recorder</p>
	<p>MIDAS DP48 Dual 48 Channel Personal Monitor Mixer [pdf] User Guide</p> <p>DP48 Dual 48 Channel Personal Monitor Mixer, DP48, Dual 48 Channel Personal Monitor Mixer, Channel Personal Monitor Mixer, Personal Monitor Mixer, Monitor Mixer, Mixer</p>

References

-  [Music Tribe](#)
-  [Music Tribe](#)
-  [Oops!](#)
-  [Music Tribe](#)