



FMX-42 INSTRUCTIONS



4-CHANNEL FIELD MIXER

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OUTPUTS and SETTINGS

Monitor "LEVEL" and "MONITOR" Output Jack:

The "MONITOR" "LEVEL" (22) adjusts the volume of headphones connected to the "MONITOR" output jack (23). Zero is the lowest (quietest) setting, 10 is the highest (loudest).

Monitor "SELECT":

Normally, the monitor "SELECT" switch (24) is set to position "L/R". In this position you will monitor the sound of all connected microphones using stereo headphones. If you only want to hear the "L" output, use stereo headphones and set the switch to position "L". Or, if you only want to hear the "R" output, use stereo headphones and set the switch to position "R". The use of mono headphones is not recommended.

"OUTPUT" "L" and "R":

Connect a cable from "OUTPUT" "L" (14) and/or "OUTPUT" "R" (15) to the microphone or line input of your video camera or audio recorder. These outputs accept a standard 3-pin female XLR connector equipped cable. Push the cable connector into the output jack until it locks. To remove the connector press the release tab on the connector and pull the connector out.

"OUTPUT" "LEVEL" Settings:

Select the "OUTPUT" "LEVEL" (26) that is best-suited for your video camera or audio recorder. The "+4 dBu" setting is for line-level audio inputs and the "-36 dBu" setting is for a microphone-level audio input.

"STEREO" Mini-Connector Output:

The "STEREO" mini-connector (3.5 mm) output (25) is designed for video cameras or audio recorders which have mini-connector microphone-level inputs. This output is stereo (dual-channel) and unbalanced. It is recommended to use a stereo-to-stereo mini-cable (not supplied) from the "STEREO" mini-connector output to the microphone or line-level input of your video camera or audio recorder. Because the FMX-42 has low-impedance XLR inputs and a mini-connector output, users of mini DV cameras that have mini-connector microphone inputs can now use high-quality microphones with XLR outputs.

"EXTERNAL DC IN":

For external powering of the mixer, connect a power supply to this input (3). Maximum rating of the power supply should not exceed 12 volts DC, 350mA. Azden recommends using its BC-26U.

"METER ILLUM":

Turn this switch (27) "ON" to light up the VU Meters and set your audio levels. Turn this switch "OFF" when not using the meters to conserve battery power.

INTRODUCTION:

Thank you for purchasing Azden's FMX-42 4-channel field mixer. The FMX-42 has many unique features, making it very important to read and understand this manual completely before use. Designed to work with most microphones that have a low-impedance XLR output or line-level devices, the FMX-42's output can be connected to virtually any video camera or audio recorder, which has XLR or mini-connector mic/line inputs.

POWERING THE FMX-42

Battery Power:

Make sure the mixer is turned "OFF" (2). Remove the battery cover (1) by pressing the clip in and then lifting up and removing the cover from the unit. Install 6 fresh "AA" ALKALINE batteries following the polarity diagram inside the battery compartment. Do not force the batteries. When all 6 batteries are installed, replace the battery cover and move the power switch (2) to the "BATT" position. The "POWER" LED (4) will turn GREEN. When the battery voltage level becomes too low for proper operation the "POWER" LED will turn RED. When this happens replace the batteries with fresh, new "AA" ALKALINE batteries. When not in use, turn the mixer "POWER" switch (2) to "OFF" to conserve battery life.

External Power:

The FMX-42 can be powered from an external power supply. After attaching the power supply to an active 110VAC source and to the "EXT DC IN" jack (3) on the FMX-42, move the power switch (2) to the "EXT" position. The "POWER" LED (4) will turn green. When not in use, turn the mixer "POWER" switch to "OFF" and disconnect the power supply from the mixer.

Note: The FMX-42 is not supplied with an external power supply. An optional power supply, part number BC-26U, is available from Azden's web site: www.azdencorp.com.

Wearing the FMX-42:

The FMX-42 is supplied with a ballistic nylon case. Place the mixer in the case and adjust the neck strap to achieve the most comfortable position for you. A back harness (not supplied) can be secured to the metal rings on the case for additional support and comfort.

INPUTS and SETTINGS

"INPUT" Channels: "CH 1", "CH 2", "CH 3" and "CH 4"

Connect the output of a microphone, wireless receiver or line-level audio component to "INPUT CH 1" (5) and/or "CH 2" (5) and/or "CH 3" (5) and/or "CH 4" (5). The inputs accept a standard 3-pin male XLR connector equipped cable. Push the connector into the input jack until it locks. To remove the connector, press the "PUSH" tab (6) and pull the connector out.

"INPUT LEVEL" Settings: "+4", "-30 dBu", "-50 dBu"

Each input channel of the FMX-42 has its own level setting (7). Select the input level that is best suited for the microphone, wireless receiver or line-level audio component that you are connecting to each input. The "+4" setting is for line-level audio, "-30 dBu" and "-50 dBu" are both microphone-level settings. For the microphone-level settings, start with the "-30 dBu" position. If your microphone seems to have too much gain (volume) try the "-50 dBu" setting.

"PHANTOM DC48V" Switch:

Each channel of the FMX-42 has its own "PHANTOM DC48V" power setting (8). When using a dynamic microphone be sure to turn the corresponding "PHANTOM DC48V" switch to the "OFF" position. When using a condenser microphone that requires 48VDC external power, turn the corresponding "PHANTOM DC48V" switch to the "ON" position. The "PHANTOM DC48V" only operates in the "-30 dBu" and "-50" "INPUT LEVEL" position

WARNING: With the "PHANTOM DC48V" power turned "ON" the FMX-42 supplies 48VDC to the microphone. Please make sure that your microphone is designed to handle 48VDC or you may damage it. Check the microphone's user manual or with the manufacturer of your microphone.

FRONT PANEL CONTROLS and SETTINGS

Input "LEVEL" Controls:

Each "INPUT" channel of the FMX-42 has an adjustable input "LEVEL" control (9) (this is the inner-smaller control). This controls the input volume of the microphone connected to each corresponding "INPUT". Zero is the lowest (quietest) setting while 10 is the highest (loudest). For the best sound with the lowest noise, increase the input level control until the corresponding VU Meter (10) peaks at 0 dB.

Input "PEAK" Level LEDs:

Each "INPUT" channel of the FMX-42 has 2 "PEAK" level LEDs. These LEDs are provided to help set precise input "LEVEL" adjustments. The LEDs are located to the left of each input "LEVEL" control. The lower LED (11) indicates the level of the input electronically *prior* to the "LEVEL" control. The upper LED (12) indicates the level electronically *after* the "LEVEL" control. The lower LED (11) lighting RED indicates that the item attached to the mixer's "INPUT" has a signal that is too high and should be reduced either by changing the "INPUT LEVEL" switch (7) or at the device itself. The upper "PEAK" level LED (12) should only light RED occasionally. If this LED stays lit continuously lower the input "LEVEL" (9) and/or change your "INPUT LEVEL" (7) settings. These LEDs help reduce signal overload and distortion.

"PAN" Controls:

Each channel of the FMX-42 has an adjustable "PAN" control (13) (this is the outer-larger control). When the "PAN" control is in the center position, an equal amount of sound will come from "OUTPUT" "L" (14) and "OUTPUT" "R" (15) for any microphone or line-level input connected to the corresponding "INPUT". Moving the

"PAN" control left will decrease the sound output in the "R"ight channel. Moving the "PAN" control right will decrease the sound output in the "L"eft channel.

"LIMITER" Switch:

Each "INPUT" channel of the FMX-42 has a switchable "LIMITER" (16). After setting the input "LEVEL", turn this switch to "ON". The "LIMITER" circuit acts as a safety and reduces the possibility of overload distortion from very loud sounds without affecting normal sound volume. If you prefer the overall sound quality of the mixer without the "LIMITER" circuit engaged leave the switch "OFF".

"HPF" - High Pass Filter:

Each "INPUT" channel of the FMX-42 has a switchable high pass (low cut) filter - "HPF" (17). This filter is useful for removing unwanted low frequencies, such as wind and air-conditioning noise. For most applications engaging the high pass filter will improve overall sound quality.

"MASTER" Level Control:

The "MASTER" knob (18) controls the overall volume of all connected sources (microphones and/or line-level devices). For the best possible sound and lowest noise, try to keep this control set at its midpoint while maintaining the VU meters at their 0 dB range with the "input 'LEVEL' controls.

VU Meters - "L" and "R"

For the best sound, while keeping the "MASTER" control at its midpoint, increase or decrease each channels "LEVEL" control (9) until the "L" and/or "R" VU meter (10) peaks at 0 dB. If the "LEVEL" is set too low, sound may be accompanied by background hiss. If the "LEVEL" is set too high the sound may be distorted. Monitor the sound with headphones and adjust the "LEVEL" for the best sound. A peak level LED (19) will light RED if your overall levels are set too high.

"SLATE MIC":

Press and hold this button (20) to engage the "SLATE MIC" (microphone). The "SLATE MIC" is used to pick up audio at the mixer's location and is not intended for serious audio recording. It is however, very useful for notating scenes or other on-location documentation.

"1 kHz TONE":

Press and hold this button (21) to generate the 1 kHz tone. This output tone is used to set the recording levels of your video camera or audio recorder to their optimum level. While generating the 1 kHz tone, set the recording levels of your video camera or audio recorder to the specified level as recommend in the owner's manual. The signal is generated at +4 dBu.

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