



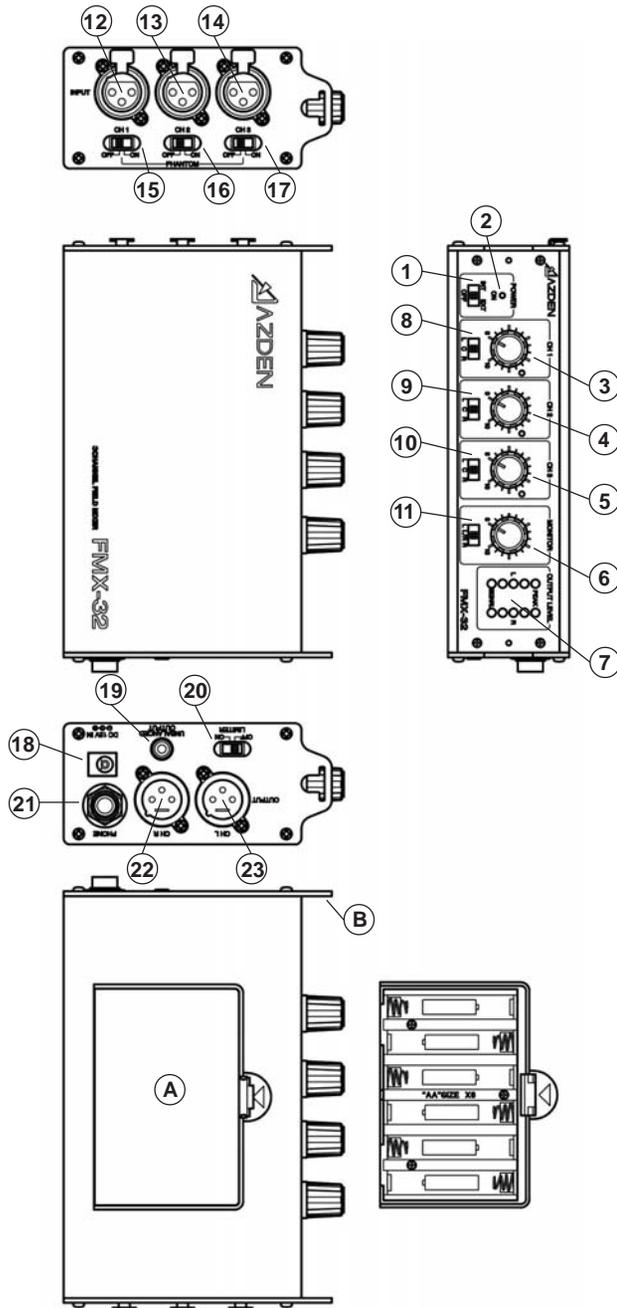
## FMX-32

### INSTRUCTIONS



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**3-CHANNEL PORTABLE MIXER**



## FMX-32 SPECIFICATIONS

### Frequency Response

Main and Unbalanced Output ..... 40-17,000Hz (-3dB)

Monitor Output ..... 50-17,000Hz (-3dB)

### Noise Level

Left & Right Channel ..... -114dBu (A weighted, Input Equivalent Level)

T.H.D. ....>0.05% @ 1KHz (+10dBu output)

### MIC Input Level

Electronic Balanced ..... -50dBu

### Balanced Output Level

Electronic Balanced ..... +0dBu (100K  $\Omega$  load)

..... -6.5dBu (600  $\Omega$  load)

### Unbalanced Output Level

3.5mm Stereo ..... -50dBu (100K  $\Omega$  load)

### Monitor Output Level

.25 inch Stereo ..... -4dBu (32  $\Omega$  load)

(Recommended Load 16  $\Omega$  - 100  $\Omega$ )

### Maximum Output Level

Balanced Output ..... +14dBu (100K  $\Omega$  load)

..... +6.5dBu (600  $\Omega$  load)

Unbalanced Output ..... -36dBu (100K  $\Omega$  load)

### Battery Type/Duration

6-"AA" Alkaline ..... approx. 15 hours

Current Drain ..... 47mA nominal (Phantom Power OFF)

..... 100mA maximum (Phantom Power ON)

Phantom Power voltage ..... 48VDC (+/- 4VDC)

Size ..... 50H x 170W x 110D mm

1.96 x 6.69 x 4.33 inches

Weight without Battery ..... 27.9 ounces

791 grams

Thank you for purchasing the Azden FMX-32 portable mixer. The FMX-32 has many unique features, so please read this manual completely before using the mixer. Designed to work with most microphones that have a low-impedance XLR output, the FMX-32 can be connected to any video camera or audio recorder, which has XLR, or mini-jack mic/line inputs.

**LOADING THE BATTERIES:** Make sure the mixer is turned OFF. Remove the battery cover (A) by pressing in the clip, then lift up and remove the cover from the unit. Install 6 new "AA" ALKALINE batteries into the battery compartment. Be sure to follow the polarity diagram inside the battery compartment. Do not force the batteries into the compartment. Replace the battery door (A). New batteries should last up to 15 hours.

**MOUNTING OPTIONS:**

1) Hook and Loop fastener (supplied): Hook and Loop fastener can be attached to either side of the mixer and to any adjoining flat surface (camera body, tripod, etc.) The strip with the soft surface should be attached to the mixer and the strip with the rough surface should be attached to the adjoining surface.

2) Strap (not supplied): A strap can be looped through the strap cutouts (B) on the sides of the mixer.

**CONTROLS and INPUTS/OUTPUTS**

**1 through 16**

**POWER SWITCH (1) and POWER LED (2):**

To power the FMX-32 by the internal batteries. Move the **POWER** switch (1) to **INT** position. The **POWER ON LED (2)** will turn green. When the battery voltage level is low the **POWER ON LED (2)** will turn to RED. When the **POWER ON LED (2)** turns to red replace the batteries with new "AA" ALKALINE batteries. (See **LOADING THE BATTERY** above). When not in use turn the mixer **OFF** to conserve battery life.

Powering the FMX-32 with an external power supply. (Note: The FMX-32 does not come with an external power supply. An optional power supply part number BC-26U is available from the Azden web site [www.azdencorp.com](http://www.azdencorp.com).) Move the power switch (1) to **EXT** position. The **POWER ON LED (2)** will turn green. When not in use turn the mixer **OFF** and disconnect the power supply from the mixer.

**INPUT LEVEL CONTROLS for Channel 1 (3), Channel 2 (4) and Channel 3 (5):**

**CH1 (3):** Controls the input level (volume) of the microphone connected to Input **CH 1 (12)**. Zero is the lowest (quietest) setting, 10 is the highest (loudest). For the best possible sound and lowest noise increase the input level control until the input LED lights occasionally.

**CH2 (4):** Controls the input level (volume) of the microphone connected to Input **CH 2 (13)**. Zero is the lowest (quietest) setting, 10 is the highest (loudest). For the best possible sound and lowest noise increase the input level control until the input LED lights occasionally.

**CH3(5):** Controls the input level (volume) of the microphone connected to Input **CH 3(14)**. Zero is the lowest (quietest) setting, 10 is the highest (loudest). For the best possible sound and lowest noise increase the input level control until the input LED lights occasionally.

#### **OUTPUT LEVEL LED INDICATORS (7)**

For the best sound increase the **INPUT LEVEL** of **CH1**, and/or **CH2** and/or **CH3**, so that the corresponding **PEAK** LED indicator flashes red occasionally during the loudest parts of what you are recording. If the indicator does not light it means that the input (volume) level is too low and the sound may be accompanied by background hiss. If the indicator is lit continuously it means that the input (volume) level is too high and the sound may be distorted. Monitor the sound with headphones and adjust the input levels for the best sound.

#### **OUTPUT SELECT Channel 1(8) , Channel 2(9) and Channel 3(10):**

By setting the **OUTPUT SELECT** switch (8) and/or (9) and/or (10) to **L** the sound of any microphone plugged into the corresponding **INPUT CH1(12)** and/or **CH2(13)** and/or **CH3(14)** will be sent to **OUTPUT CH L (23)**. If using the **UNBALANCED OUTPUT(19)** the sound of this microphone will be sent to the left channel.

By setting the **OUTPUT SELECT** switch (8) and/or (9) and/or (10) to **R** the sound of any microphone plugged into the corresponding **INPUT CH1(12)** and/or **CH2(13)** and/or **CH3(14)** will be sent to **OUTPUT CH R (22)**. If using the **UNBALANCED OUTPUT(19)** the sound of this microphone will be sent to the right channel.

By setting the **OUTPUT SELECT** switch (8) and/or (9) and/or (10) to **C** the sound of any microphone plugged into the corresponding **INPUT CH1(12)** and/or **CH2(13)** and/or **CH3(14)** will be sent to **OUTPUT CH L (23)** and **OUTPUT CH R(22)**. If using the **UNBALANCED OUTPUT(19)** the sound of this microphone will be sent to the left and right channels.

#### **MONITOR CONTROL (6) and MONITOR OUTPUT (21)**

The **MONITOR** control (6) adjusts the volume level of headphones connected to the **MONITOR** output (21). Zero is the lowest (quietest) setting, 10 is the highest (loudest).

#### **MONITOR SELECTOR SWITCH (11)**

Normally, set the **MONITOR** selector (11) to position **L/R**. In the **L/R** position you will monitor the sound of all connected microphones using either stereo or mono headphones. If you only want to hear the output from **CH L**, use stereo headphones and set the switch to position **L**. Or, if you only want to hear the output from **CH R**, use stereo headphones and set the switch to position **R**.

#### **LIMITER SWITCH (20)**

After setting the Input Levels, turn this switch to **ON**. The limiter circuit reduces possible overload distortion from very loud sound levels without affecting normal sound levels. If you prefer the overall sound quality of the mixer without the limiter circuit engaged leave the switch **OFF**.

#### **INPUT CH 1(12) and CH 2(13) and CH 3(14)**

Connect the output of a microphone or wireless receiver to **INPUT CH 1(12)** and/or **CH2(13)** and/or **CH 3(14)**. 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 and pull the connector out. For a more detailed description of how **INPUT CH 1(12)** and **INPUT CH 2(13)** and **INPUT CH 3(14)** work see **OUTPUT SELECT** above.

#### **PHANTOM POWER SWITCH CH 1(15), CH 2(16) and CH 3(17)**

When using a dynamic microphone in input **CH 1(12)** and/or **CH2(13)** and/or **CH3(14)** turn the corresponding phantom power switch to the **OFF** position. When using a condenser microphone that requires external power in input **CH 1(12)** and/or **CH2(13)** and/or **CH3(14)** turn the corresponding phantom power switch to the **ON** position. **WARNING: With the Phantom Power turned ON the FMX-32 supplies 48 VDC to the microphone. Please make sure that your microphone is designed to handle 48 VDC or you may damage it. Check the manual or with the manufacturer of your microphone.**

#### **OUTPUT CH L (23) and CH R (22)**

Connect a cable from **OUTPUT CH L (23)** and/or **CH R(22)** to the microphone or line input of your video camera or audio recorder. The 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. For a more detailed description on how **OUTPUT CH L (23)** and **CH R (22)** work see **OUTPUT SELECT** above.

#### **UNBALANCED OUTPUT(19)**

This output is stereo (dual-channel). It is recommended to use a stereo-to-stereo mini-cable (not supplied) from the **UNBALANCED OUTPUT(19)** to the microphone or line input of your video camera or audio recorder. The **UNBALANCE OUTPUT(19)** is designed for video cameras or audio recorders which have mini-jack microphone or line inputs. Because the FMX-32 has low-impedance XLR inputs and a mini-plug output, users of mini DV cameras that have mini-plug microphone inputs can now use high-quality microphones with XLR outputs. For a more detailed description on how the **UNBALANCED OUTPUT(19)** works see **OUTPUT SELECT** above.

#### **DC 12V Input(18)**

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