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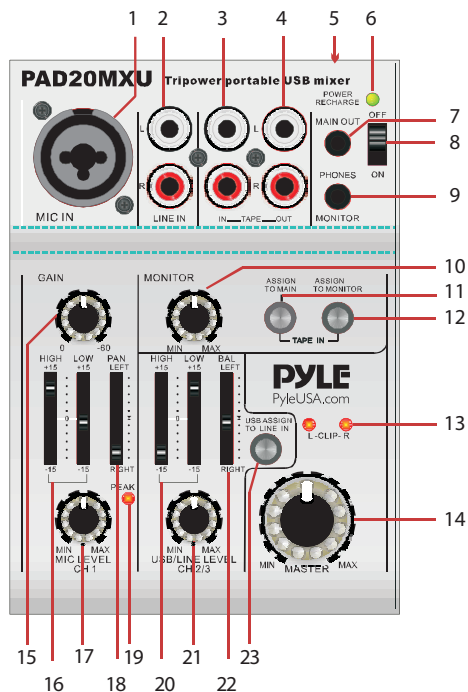
## *PAD20MXU*

5-Channel Professional Compact  
Audio DJ Mixer with USB Interface

**USER MANUAL**

## PAD20MXU

Please read these operating instructions carefully prior to operation and keep them for future reference.



### 1. Operating Elements and Connections

- 1. Mono Input MIC IN** (bal.) to connect a microphone to channel CH 1 via XLR plug or 6.3mm plug. At the XLR jack, a phantom power of +18V is always present.
- 2. Stereo Input LINE IN** (RCAjacks) to connect an audio source with line signal level (e.g. CD player) to channel CH 2/3.
- 3. Stereo Input TAPE IN** (RCA jacks) to connect the output of a recorder
- 4. Stereo Output TAPE OUT** (RCA jacks) to connect the input of a recorder
- 5. USB port** (type B) to connect a computer or a power supply unit with USB connection; when operating the mixer with a computer, it is possible to use this port as an audio output (mixed signal output) and as an audio input (feed-in of audio data to be reproduced via channel Ch2/3)

### 6. Power/Charge LED ON/CHARGE

- **Not Lighting Up:** During battery operation of the unit and when the unit is switched **OFF** and connected to a power supply and the battery is fully charged.
- **Shows Green:** When the unit is switched **OFF** and connected to a power supply and the battery is being charged.
- **Shows Red and Green (= Yellow):** When the unit is switched **ON** and connected to a power supply and the battery is being charged
- **Shows Red:** When the unit is switched **ON** and connected to a power supply and the battery is fully charged.

- 7. Stereo Output MAIN OUT** (3.5mm jack) to connect the input of an amplifier or another unit, e. g. a second mixer.

- 8. POWER** switch

- 9. Output MONITOR/ PHONES** (3.5mm jack) to connect stereo headphones (minimum impedance 160)

- 10. Volume Control MONITOR/PHONES** for the headphone output MONITOR/PHONES (9)

- 11. Button TAPE IN ASSIGN TO MAIN** to assign the input signal of the jacks TAPE IN (3) to the outputs MAIN OUT (7), TAPE OUT (4) and USB (5)

- 12. Button TAPE IN ASSIGN TO MONITOR** to assign the input signal of the jacks TAPE IN (3) instead of the mixed signal to the headphone output MONITOR/PHONES (9)

- 13. Overload LEDs CLIP** for the stereo output signal adjusted with the control MASTER (14)

- 14. MASTER Control** to set the level of the output signal sent via the outputs MAIN OUT (7), TAPE OUT (4) and the USB port (5)

- 15. Control GAIN for Channel CH 1** to set the input amplification.

- 16. High Frequency Control HI** and Low frequency control LO for channel CH 1

- 17. Control LEVEL** for channel CH 1

- 18. Panorama Control PAN** for channel CH 1 to place the mono signal on the stereo base.

- 19. Level Peak LED PK for Channel CH 1:** if at all, should only briefly light up with level peaks

- 20. High Frequency Control HI** and Low frequency control LO for channel CH 2/3

- 21. Control LEVEL** for channel CH 2/3

- 22. Stereo Balance Control BAL** for channel CH 2/3

- 23. Button USB ASSIGN TO CH 2/3** to assign the input signal of the USB port (5) to channel CH 2/3.

## 2. Applications

This compact 5-channel audio mixer with USB interface is suited for universal applications, e. g. For audio recording on the computer. The mono input channel allows to connect a (**phantom powered**) microphone; the stereo input channel allows to connect an audio source with line signal level. In addition, the mixer is provided with connections for a recorder and headphones. The mixed signal is sent to the output via a 3.5mm jack and the USB port. It is also possible to use the USB port as an input to transfer audio data from the computer to the mixer. When connecting the mixer to a computer, power is supplied via the USB connection. When operating the mixer without a computer, either use a suitable power supply unit with USB connection or operate the mixer via the integrated rechargeable lithiumion battery. The battery is charged when the mixer is connected to the power supply via the USB port.

## 3. Important Notes

**This unit corresponds to all relevant directives of the EU and is therefore marked with C€.**

- **The unit is suitable for indoor use only.** Protect it against dripping and splash of water, high air humidity and heat (admissible ambient temperature range 32-104°F).
  - For cleaning, only use dry soft cloth; never use water or chemicals.
  - No guarantee claims for the unit and no liability for any resulting personal damage or material damage will be accepted if the unit is used for other purposes than originally intended. If it is not correctly connected or operated, or if it is not repaired in an expert way.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



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## 4. Audio Connections

**Prior to connection, always turn back the output controls MONITOR/PHONES (10) and MASTER (14) to "0".**

1. The input MIC IN (1) of the mono channel CH 1 allows to connect a microphone via XLR plug or 6.3 mm plug. Both the XLR jack and the 6.3 mm jack of the combined jack are balanced. The XLR jack always supplies a 18 V phantom power and it thus suitable for a condenser Microphone operated with this phantom power.
- Caution!** Do not connect microphone with unbalanced output via XLR plug. It may be damaged by the phantom power.
2. The input LINE IN (2) of the stereo channel CH 2 allows to connect an audio source with line signal level (e.g. CD player) via RCA plugs: L = left channel, R = right channel.
  3. **It is possible to use the RCA jacks TAPE IN (3) and OUT (4) to connect a stereo recorder:**
    - Connect the recording output of the recorder to the input TAPE IN.
    - Connect the recording input of the recorder to the output TAPE OUT; the output signal adjusted with the MASTER control (14) is sent to this output. However, it is also possible to use the jacks for other units with line signallevel, e.g. to connect a CD player or MP3 player to TAPE IN or to connect an amplifier to TAPE OUT.
  4. The 3.5 mm jack MONITOR/PHONES (9) allows to connect stereo headphones (impedance  $\geq 16\Omega$ ). Thus, you will be able to monitor the output signal adjusted with the control MASTER (14) or the Input signal of the jacks TAPE IN (3) via headphones.
  5. At the stereo output MAIN OUT (7), the output signal adjusted with the MASTER control (14) is present. This output allows to connect e.g. an amplifier or a second mixer via 3.5 mm plug.
  6. When operating the mixer with a computer, it is possible to use the USB port (5) for digital output of the mixed signal to the computer and for feeding digital audio data to the mixer. To Connect the port see chapter 5.1.

## 5. Setting the Mixer into Operation

### 5.1 Operation with Computer

When operating the mixer with a computer, either use the audio software supplied with the operating system or an audio software installed additionally. Various programs for audio reproduction/recording are available on the Internet free of charge.

1. Start the computer. Connect the USB port (5) to a USB connection on the computer via the USB cable provided. Switch on the mixer with the switch **POWER** (8) [position "ON"]. The **LED ON/CHARGE** (6) lights up according to the battery charge status (chapter 5.3). The computer recognizes the USB interface of the mixer as an external device for audio input and audio output, e. g. as USB Ear Microphone, depending on the operating system. The required drivers (standard drivers of the operating system) are available on the computer.

**Note:** If not all drivers required are available on the computer, install them, e.g. via the original CD of the operating system. Restart the computer after installation, if necessary.

2. Open the reproduction/recording program and make the required settings for audio reproduction via the mixer or audio recording from the mixer (user manual of the program). Then operate the mixer according to chapter 6.

If it is not possible to record or reproduce any sound, make sure to activate the USB interface for audio Input or audio output in the system settings of the operating system of the computer.

**Hint:** If the mixer is connected to a computer and to any units earthed via their mains cables (e.g. amplifiers), there may be hum noise due to ground loops. To eliminate this noise, connect the mixer to the corresponding unit via a ground isolator.

### 5.2 Operation with Power Supply Unit

Via USB connection, the power supply unit must provide an output voltage of 5 V and an output current of 500mA. Connect the power supply unit to the USB port (5) via the USB cable provided, then connect it to a mains socket. Switch **ON** the mixer with the switch **POWER** (8) [position "ON"]. The **LED ON/CHARGE** (6) lights up according to the battery charge status (chapter 5.3).

## 5.3 Charging the Battery/Battery Operation

To ensure the maximum operating time (approx. 4 hours) when the mixer is operated via the integrated rechargeable lithium-ion battery, fully charge the battery prior to operation. Connect the USB port (5) to a computer (chapter 5.1) or to a power supply unit (chapter 5.2). The **LED ON I CHARGE** (6) shows the charge status and operating mode:

1. With the mixer switched off [switch **POWER** (8) set to "OFF"], the **LED ON/CHARGE** shows green while the battery is being charged. When the battery has been fully charged, the LED is extinguished.
2. With the mixer switched **ON** [switch **POWER** set to "ON"], the **LED ON/CHARGE** shows red and green (= yellow) at the same time while the battery is being charged. When the battery has been fully charged, the LED shows red.

To save battery power, the **LED ON/CHARGE** do as not light up during battery operation. Therefore, you may easily forget to switch off the mixer. To prevent the battery from being completely discharged, always make sure to set the switch **POWER** to "OFF" after operation.

## 6. Operation

1. Switch **ON** the mixer with the switch **POWER** (8) [position "ON"].
2. For basic setting, set the controls **MASTER** (14) and **GAIN** (15) approximately to mid position for the time being.
3. When a microphone is connected to the jack MIC IN (1), speak into the microphone and turn up the corresponding control **LEVEL** (17) until you obtain a good microphone signal. If you need to turn up the control **LEVEL** completely for this purpose, further turn up the control **GAIN** (15). However, if the **LED PK** (19) lights up and is not extinguished immediately, turn back the control **GAIN**. The **LED PK** must only briefly light up with level peaks.
4. Use the panorama control **PAN** (18) to place the microphone signal on the stereo base. Adjust the sound with the controls **HI** and **LO** (16).
5. Turn up the control **LEVEL** (21) for channel CH 2/3 until you obtain a good input signal. To assign the input signal of the USB port (5) to channel CH 2/3, press the button **USB ASSIGN TO CH 2/3** (23). When the button is engaged, the USB input signal and the signal of the input **LINE IN** (2) use the same channel. Therefore, do not use the Input **LINE IN** if you intend to reproduce only the USB input signal via channel CH 2/3.

**Note:** When recording via the USB port, please pay attention to the risk of feedback if you assign the recording signal of the computer to channel CH 2/3 as an Input signal.

6. For channel CH 2/3, adjust the sound with the controls HI and LO (20) and the balance with the control BAL (22).
7. Use the controls LEVEL (17,21) to mix the input signals of channels CH 1 and CH 2/3 or to fade them **IN** and **OUT**. When a channel is not used, set its control to "0".
8. Use the control MASTER (14) to set the level of the output signal that is sent via the jacks MAIN OUT (7), TAPE OUT (4) and the USB port (5).  
If one of the overload LEDs CLIP (13) shows red, turn back the control MASTER accordingly.
9. The headphone output MONITOR/PHONES (9) allows to monitor the output signal of the mixer. For this purpose, the button TAPE IN ASSIGN TO MONITOR (12) must not be engaged. Adjust the headphone volume with the control MONITOR/PHONES (10).

**WARNING!** Never adjust the headphones to a very high volume. Permanent high volumes may damage your hearing! Your ear will get accustomed to high volumes which do not seem to be that high after some time. Therefore, do not further increase a high volume after getting used to it.

**10. When a unit is connected to the jacks TAPE IN (3), it is possible to monitor the output signal of this unit:**

1. **If the button TAPE IN ASSIGN TO MAIN (11) is engaged:** via the outputs MAIN OUT (7), TAPE OUT (4), USB (5) and MONITOR/PHONES (9)
  - The output signal of the mixer is also present at these jacks. Therefore, set the two controls LEVEL (17,21) to "0", if necessary.
2. **If the button TAPE IN ASSIGN TO MONITOR (12) is engaged:** only via the headphone output MONITOR/PHONES. In this case, it is not possible to monitor the output signal of the Mixer via the headphone output.

## **PAD20MXU**

### **5-Channel Professional Compact Audio DJ Mixer With USB Interface**

#### **Features:**

- Ultra-Low Noise Design With High Headroom
- Integrated USB Audio Interface - Record Music On Your Computer
- Smooth Rotary-Style Faders For Mic/USB/Line/Master Controls
- Extremely Musical 2-Band EQ & Pan On Each Channel
- Clipping LED Indicators For Left And Right Channel
- 1 XLR / 1/4" Jack Combo Mic Input
- 2 RCA Stereo Inputs
- 2 1/8" (3.5mm) Stereo Output and Monitor Jacks
- Integrated Rechargeable Lithium Ion Battery, 500mAh 3.7V
- 18V Phantom Power