



Unity[®] 8

Compact Mixer

Preliminary Draft Do NOT
Publish

Operating
Manual



FCC/ICES Compliancy Statement

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS Standard(s). 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, that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warning: Changes or modifications to the equipment not approved by Peavey Electronics Corp. can void the user's authority to use the equipment.

Note – This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.



ENGLISH

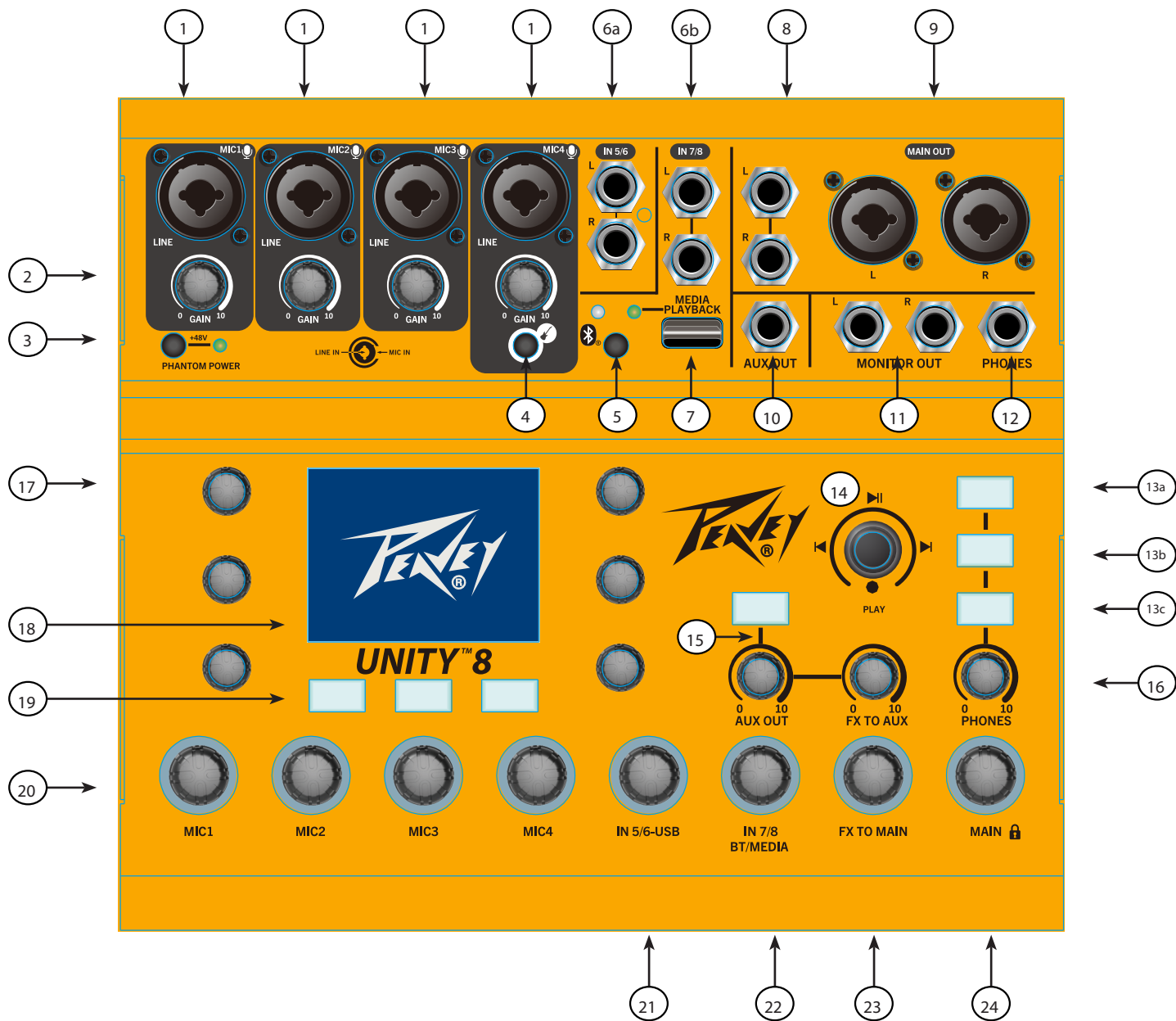
Unity® 8
Compact Mixer



Installation Note:

This unit must have the following clearances from any combustible surface: top: 8", sides: 12", back: 12"

Unity 8 Front Panel



Unity 8 Front Panel

1) Mic/Line Input Channels 1-4

This combination input jack accepts a ¼" or XLR balanced plug. The XLR balanced input is optimized for a microphone or other low impedance source. The ¼" input is a TRS balanced type, and also accepts ordinary TS guitar cables.

2) Gain Controls Channels 1-4

The Input Gain control is used to establish proper gain structure in the channel. The input gain can be adjusted over a wide range to compensate for soft voices or very loud drums. To maximize the signal-to-noise ratio, the gain should be set to the proper level, with the MIC1 Level Knob (22) set to 80%.

3) Phantom Power

This Switch applies +48 VDC voltage to the input XLR connectors to power microphones requiring phantom power.

4) Guitar

This switch optimizes the input for Channel four for connecting instruments with high impedance outputs, like electric guitars and basses with passive pickups, directly into the mixer.

5) BLUETOOTH/Media Playback SWITCH

This switch is only active when a flash drive is plugged into the Media Playback USB jack (7). Once that drive is plugged in, this switch can be used to select between the BT audio stream and the Media Playback USB audio stream. Only one of those two signals can be sent to channel 7/8 at a time.

6) Stereo Media Inputs

(6a) (Channels 5/6) accepts a stereo input from the output of an MP3 player, CD player, tape deck or other similar device. This input is optimized for line inputs and portable handheld devices. STEREO 1/4" INPUTS (6b) are also available (IN 7/8).

7) USB Media Input

This USB-A jack is used to play music from a flash drive. Play, FFWD, REW and Stop controls are available with the media playback toggle control (14).

8) 1/4" STEREO AUX OUTPUTS

These are the main stereo outputs. These TRS electronically balanced outputs carry the main mix signal.

9) XLR STEREO MAIN OUTPUTS

These are the main stereo outputs. These XLR electronically balanced outputs carry the main mix signal.

10) 1/4" MONO AUX OUTPUT

This is the aux mono output. This TRS electronically balanced outputs carry the mono Aux mix signal. The output level is controlled by the Aux Out level control (15a).

11) Monitor Out

These monitor outputs are TRS electronically balanced and allow the monitor signal to be sent to an external amplifier or powered speaker for monitoring.

12) Headphone Jack

1/4" jack for connecting headphones for monitoring the Mic1-4 signal, the Music mix or the Pre main level control signal.

13) MODE Buttons

The default signal in the headphones is the main post level control (26) L/R output. The headphone mode buttons allow the signal to be monitored in various parts of the mixer. The PRE button (13c) puts the pre main level control (26) signal in the headphones. This means the signal level in the headphones are not affected by the position of the main level control. The Music button (13b) puts the stereo line input/media USB (5/6, 7/8) signals isolated in the headphones. The Mic1-4 button (13a) puts the channel 1-4 signals isolated in the headphones. This allows the mic inputs to be monitored minus the stereo inputs. Whichever mode is "active" the button will glow blue. In the default mode, the buttons will all be dark.

14) MEDIA PLAYBACK TOGGLE CONTROL

Used to control the media playback from the flash drive. Pressing the encoder toggles the music between play and pause. Turning the control clockwise advances to the next song. Turning the control counterclockwise rewinds to the previous song.

15) AUX CONTROLS

15a) Aux Level Control - This control is used to adjust the amount of signal sent to the Aux Out jack (10).

15b) Aux Pre Switch - When this button is pressed the Aux send is switched from post gain send to a pre gain send from the channels. When PRE is selected, the button will glow blue.

15c) FX to Aux Control - This is used to adjust the amount of FX being sent to the Aux send jack. Turning it to the right increases and turning it to the left decreases the amount of FX in the Aux output.

16) HEADPHONE LEVEL CONTROL

Turning this level control to the right increases the volume of the headphone signal. Turning it left turns the headphone volume down. See Headphone Mode section (13) for selecting the headphone source.

17) PARAMETER CONTROLS

These SIX encoders can be used to navigate the channel edit screens. The control must be turned to change the setting and pushed to select the setting. The editing of the EQ and EFX is explained in the EQ/EFX editing section of the manual.

18) LCD Display (Meters/Edit)

The LCD display serves two main functions, the default function is a meter array that shows the signal level of all of the input channels and the main L/R outputs. When any of the channel or main level controls are turned, the screen will show the position of the corresponding level control. If the mixer is placed in the edit mode, the screen is used in conjunction with the 6 parameter knobs (17) to make adjustments to the channel EQ/EFX settings or to edit the USB outputs settings. It also displays BT or USB connectivity as well as the mixer's firmware version.

19) Edit Soft Buttons

Buttons used for changing settings in the edit and global settings screens. See the editing and global settings sections for further explanation.

20) Mic1- Mic4 Level Controls

The MIC1-MIC4 level controls are to adjust the amount of channels 1-4 signal level in the main mix. These controls can be adjusted from 0 to 99%. The unity gain position is 80% and that is a good starting place to set the control. These controls are also used to mute the signal in their respective channel and to edit the EQ and EFX settings in the channel. A long press of this control will mute the channel signal. If the channel is muted, the ring around the control will glow red. A short press will enter the channel edit screen. While in the edit mode, the ring around the control will flash red.

21) IN 5/6-USB Level Control

This controls the amount of signal from stereo inputs 5/6 and the USB signal from a connected PC to the mix bus. This control is also used to mute the signal and to access the channel editing options. A long press of this control will mute the channel signal. If the channel is muted, the ring around the control will glow red. A short press will enter the channel edit screen. While in the edit mode, the ring around the control will flash red.

22) IN 7/8 - BT/Media LEVEL CONTROL

This controls the amount of signal from stereo inputs 7/8 and the BT/Media signal to the mix bus. This control is also used to mute the signal and to access the channel editing options. A long press of this control will mute the channel signal. If the channel is muted, the ring around the control will glow red. A short press will enter the channel edit screen. While in the edit mode, the ring around the control will flash red.

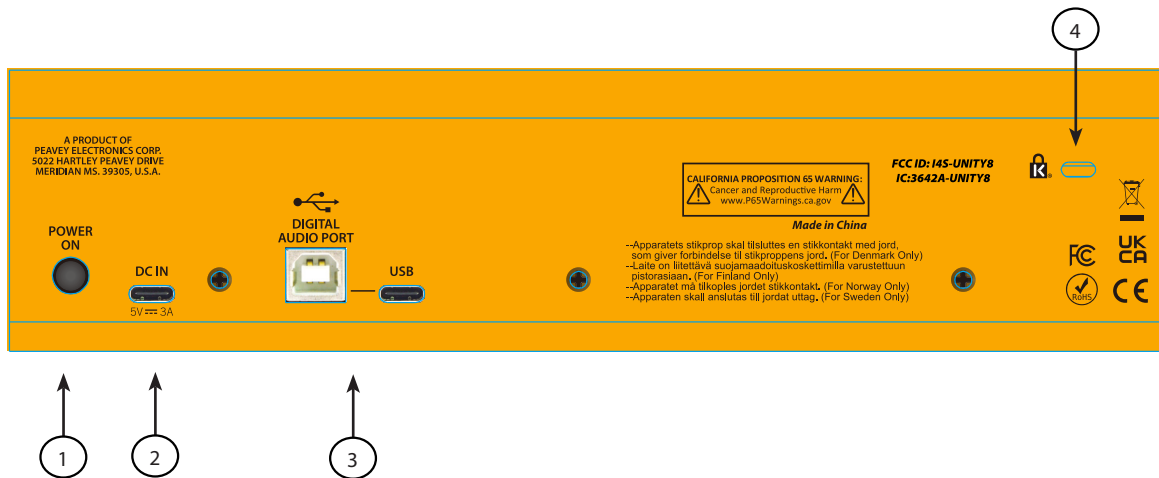
23) FX TO MAIN

This controls the amount of FX signal being added to the main mix bus. This control is also used to mute the FX signal and to access the FX editing options. A long press of this control will mute the channel signal. If the channel is muted, the ring around the control will glow red. A short press will enter the channel edit screen. While in the edit mode, the ring around the control will flash red.

24) MAIN LEVEL CONTROL

Turning this level control increases and decreases the amount of total signal in the main outputs. Turning it to the right increases the amount of signal and turning it left decreases the amount of signal. It is adjustable from 0 to 99%, 80% is unity gain and a good starting setting. This encoder is also used as a global lock and a global signal mute. A short press lock's all of the mixers controls. Once locked, only the mic input gain and the headphone volume will work. When locked, the ring around the control will flash red and a lock symbol will be seen on the LCD screen. Another short press will unlock the controls. A long press of this control will mute the main outputs. When activated, the ring around the control will glow red. Another long press will unmute the signal and the light will go out.

Unity 8 Rear Panel



1) Power Button

This is the main power switch. Pressing this button turns the unit on.

2) DC Input

Connect the included power supply here. Use a 5V DC, 1 A adapter only. Replace only with Peavey part number 30909411.

3) Digital Audio Port/USB 1 Port

The USB-B or USB-C connectors are used to connect the Unity 4 mixer to a computer for recording or playing back digital audio to/from your computer. The USB ports sends the mixer's main, loop or dry 1/2 signals out to the computer. The level and sources can be adjusted by pressing the USB out mode button (19). USB 1 input signal level is controlled by adjusting the USB1 level knob (15). Only use one connector at a time.

4) Kensington Lock

The Unity mixer can be used with a standard Kensington compatible lock can be used to secure your mixer and prevent theft.

Unity 8 Specifications

Input Connections:

MIC/LINE (mono)	Combo female XLR/ 1/4" jack	Balanced or unbalanced
Guitar (mono)	1/4" phone jack	Balanced or unbalanced
Line 5/6-7/8 (stereo)	RCA, 1/4" phone jacks	Balanced or unbalanced
USB Media (stereo)	USB-A	
USB (stereo)	USB-B and USB-C	
Bluetooth (stereo)	V 5.0	

Output Connections:

Main Out (stereo)	Male XLR, 1/4" phone jacks	Balanced or unbalanced
Monitor Out (stereo)	1/4" phone jacks	Balanced or unbalanced
Aux Out (mono)	1/4" phone jack	Balanced or unbalanced
Headphone Out (stereo)	1/4" phone jack	Unbalanced
Headset Out (stereo)	3.5mm jack	Unbalanced
USB (stereo)	USB-B and USB-C	

Channel Function:

Mic1-4: Low-cut, Noise gate, Feedback Suppressor, Compressor (1-2), 3-band EQ, Aux, EFX's, Volume, Mute
Line 5/6-USB: Noise gate, 3-band EQ, Aux, EFX's, Volume, Mute
Line 7/8-BT-Media: Noise gate, 3-band EQ, Aux, EFX's, Volume, Mute

Nominal Frequency Response:

+0, -1 dB from 10 Hz to 23 kHz

Hum and Noise:

< -90 dBu

Phantom Power Voltage:

+48 V DC

Power requirements:

5V DC, 3 Amp

Dimensions (W x D x H)

9.875 in. x 8.25 in. x 2.75 in.
251 mm x 210 mm x 70 mm

Net Weight:

3.19 lbs. (1.45 kg)



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Warranty registration and information for U.S. customers available online at
www.peavey.com/warranty
or use the QR tag below



Features and specifications subject to change without notice.

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Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005