



velleman HQMX11010 4-Channel Mixing Panel with 3 Zones and USB Connection User Manual

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Introduction

To all residents of the European Union Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing HQPower™! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

Safety Instructions

- Read and understand this manual and all safety signs before using this appliance.
- For indoor use only.
- Caution – Avoid listening at high volume levels for long periods.
- The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.
- The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

Caution – To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified personnel. To avoid the risk of fire or electric shock, do not expose this product to rain or humidity.

- This device can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

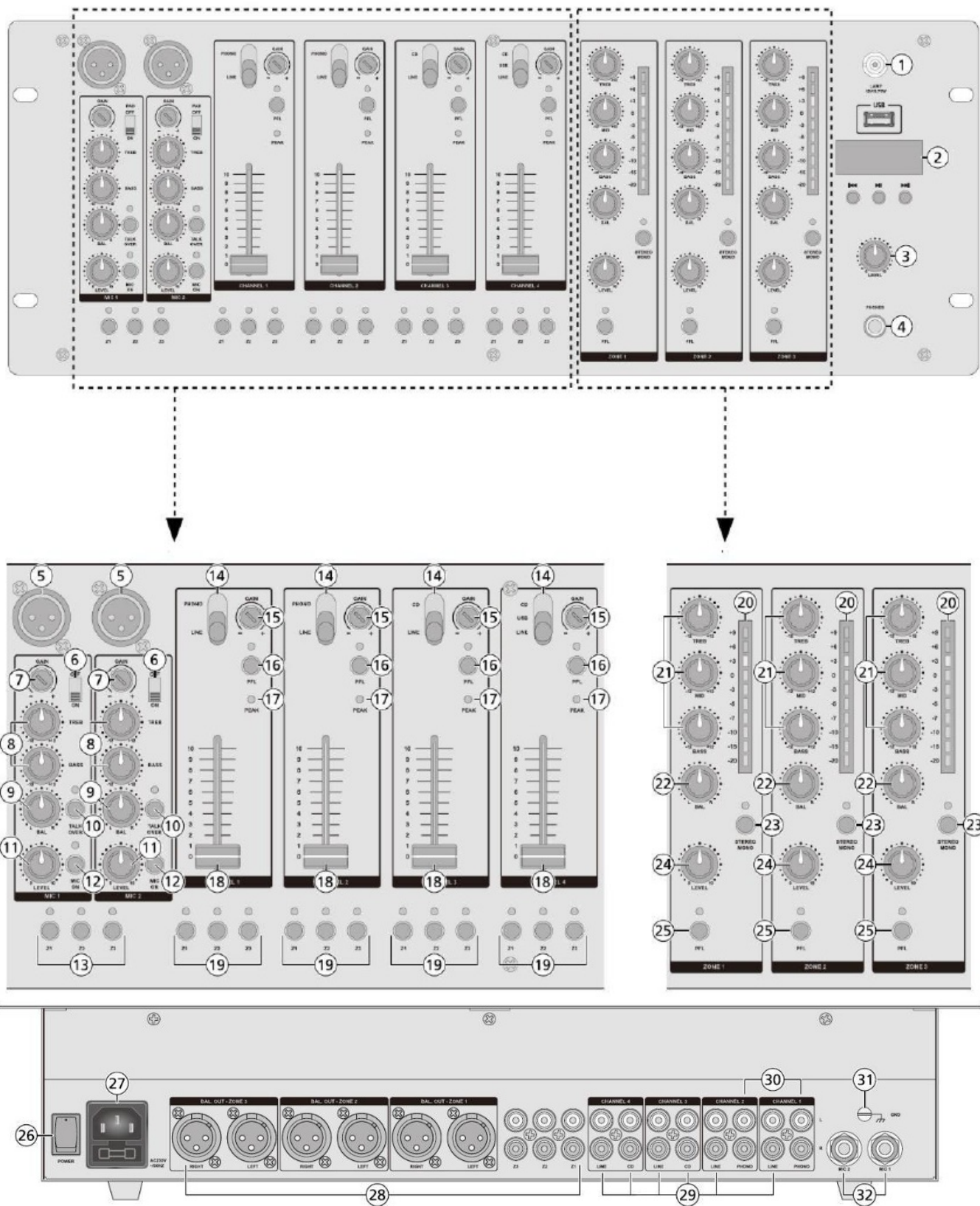
- Always install the device in a well-ventilated location.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- WARNING – Do not use this appliance in the immediate surroundings of a bath, a shower or a swimming pool.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Unplug this device during lightning storms or when unused for long periods of time.
- WARNING – To reduce the risk of fire or electric shock, do not expose this device to rain or moisture.
- This device shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.
- The mains plug, an appliance coupler or power adaptor is used as the disconnect device, so the disconnect device shall remain readily operable.
- Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time.
- In the event of an operating problem, stop using the device immediately.

General Guidelines

- Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Keep this manual for future reference.

Description

Front Panel



1. BNC jack for connecting a gooseneck light (12 V/5 W max.).
2. MP3 display.
3. Volume control for the headphone output (4).
4. 6.3 mm stereo headphones jack (impedance $\geq 8 \Omega$) for pre-fader listening to the stereo channels 1 to 4 or for monitoring the master channels.
5. XLR inputs (bal.) for the microphone channels. As an alternative, use microphone inputs (31) on the rear panel.
6. Switches for the microphone channels. With the switch in the ON position, the input level of the corresponding microphone is attenuated by 15 dB.

7. Gain controls for the input amplification of the microphone channels.
8. 2-way tone control for the microphone channels TREB and BASS.
9. Controls for placing the mono signals of the microphone channels on the stereo base.
10. Talk-over switch for the microphone channel MIC 1. With the button pressed (LED above it lights up), the levels of the stereo channels 1 to 4 are automatically attenuated by 16 dB when announcements are made via the microphone.
11. Level controls for the microphone channels.
12. On-off switches for the microphone channels. With the button pressed (LED above it lights up), the corresponding microphone is switched on.
13. Routing buttons Z1 to Z3 (with indicating LEDs) to assign the two microphone channels together to the three master channels.
 - Z1 pressed: microphone channels switched to channel ZONE 1.
 - Z2 pressed: microphone channels switched to channel ZONE 2.
 - Z3 pressed: microphone channels switched to channel ZONE 3.
14. Input selector switches for the stereo channels 1 to 4.
15. Gain controls for the input amplification of the stereo channels 1 to 4.
16. PFL buttons for the stereo channels 1 to 4. With the button pressed (LED above it lights up), the signal of the corresponding channel can be monitored ahead of the channel fader (18) via headphones connected to the jack PHONES (4).
17. PEAK LEDs for the stereo channels 1 to 4. If the LED lights permanently, the corresponding channel is overloaded.
18. Level controls (faders) for the stereo channels 1 to 4.
19. Routing buttons Z1 to Z3 (with indicating LEDs) to assign the stereo channels 1 to 4 individually to the three master channels.
 - Z1 pressed: input channel switched to channel ZONE 1.
 - Z2 pressed: input channel switched to channel ZONE 2.
 - Z3 pressed: input channel switched to channel ZONE 3.
20. LED level indications for the master channels.
21. 3-way equalizer for the master channels TREB, MID and BASS.
22. Balance controls for the master channels.
23. Mono/stereo selector switches for the master channels.
24. Level controls for the master channels.
25. PFL buttons for the master channels. With the button pressed (LED above it lights up), the signal of the corresponding master channel can be monitored ahead of the master level control (24) via headphones connected to the jack PHONES (4).

Rear Panel

26. On-off switch.
27. Mains cable for connecting the unit to a mains socket 230 V~/50 Hz.
28. Inputs PHONO (phono jacks) for the stereo channels 1 and 2 for connecting turntables with magnetic system.
29. Outputs of the three master channels (optionally XLR jacks (bal.) or phono jacks, mono or stereo, depending on the corresponding selector switch (23)) for connecting amplifiers or other units with line input level (e. g. sound recorder, second mixer):
 - outputs Z1 for master channel ZONE 1.

- outputs Z2 for master channel ZONE 2.
 - outputs Z3 for master channel ZONE 3.
- Inputs LINE and CD (phono jacks) for the stereo channels 1 to 4 for connecting units with line level outputs (e.g. MD recorder, CD player).
 - Ground clamping screw for connected turntables.
 - Input jacks (6.3 mm jacks, bal.) for the two microphone channels as an alternative to the microphone inputs (5) on the front panel.

Installation

- Switch off the appliance prior to connecting any units or changing any existing connections.
- Connect the stereo audio sources to the corresponding RCA input jacks of the channels 1 to 4 (white jack = left channel; red jack = right channel):
 - units with line level output (e.g. tuner, CD/MP3 player, tape deck) to the jacks LINE or CD (28);
 - turntables with magnetic system to the jacks PHONO (29). Connect the ground connections of the turntables to the clamping screw GND (30).

Connection of two microphones

Connect a microphone for announcements to the microphone channel MIC 1 and another microphone to the second microphone channel MIC 2. Either connect the corresponding microphone to the XLR jack (5) on the front panel or to the corresponding 6.3 mm jack (31) on the rear panel.

- For pre-fader listening to the stereo input channels or for monitoring the three master channels ahead of the master level controls, connect stereo headphones (minimum impedance 8 Ω) to the 6.3 mm jack PHONES (4).
- For illuminating the console, connect a gooseneck light (12 V/0.75 W max.) to the BNC jack LAMP (1). The light is switched on or off with the mixer.
- Finally connect the appliance to the mains (230 V~, 50 Hz) (26).

Operation

Prior to switching on, set the master level controls (24) to minimum to prevent switching noise. Switch on the mixer with the switch POWER (2). The power LED above the switch lights up. After operation, switch off the mixer with the switch POWER.

Basic Adjustment of the Input Channels

First, set all gain controls (7, 15), all tone controls (8, 21) and the controls BAL (9, 22) to mid-position. Set the switches PAD (6) of the microphone channels to the upper position.

If a stereo input channel is not used, set its fader (18) to minimum. If a microphone channel is not used, unlock the button MIC ON (12) to switch off the microphone.

Level Control of the Stereo Channel 1-4

- Use the input selector switch (14) of the channel to select the desired audio source.
- Feed an audio signal to the input.
- Set the fader (18) of the channel to approx. 2/3 of its maximum (e.g. to position 7).
- Use one of the three routing buttons (19) to switch the input channel to the master channel which is to be used for level control (button Z1 for ZONE 1, button Z2 for ZONE 2, button Z3 for ZONE 3). The LED above the button lights up.

5. Set the level control (24) of the master channel used to approx. 2/3 of its maximum.
6. Use the gain control (15) to control the input channel to an optimum level by means of the level indication (20) of the master channel used. Adjust the gain control in such a way that, at average volume, the level indication displays values in the 0 dB range. If the red LEDs light up, there is overload at the channel. If required, the control can be fully opened or closed.

The LED PEAK (17) of the input channel is also useful for controlling the level. It should not light up or light up only briefly with signal peaks. If it lights permanently, reduce the level of the input signal [by reducing the input amplification (gain) or the output level of the corresponding audio source].

Level Control of the Microphone Channels

1. To switch on the corresponding microphone, press the button MIC ON (12) of the channel (LED above the button lights up).
2. Set the control LEVEL (11) of the channel to approx. 2/3 of its maximum (e.g. to position 7).
3. Use one of the three routing buttons (13) to switch the microphone channel to the master channel which is to be used for controlling the level (button Z1 for ZONE 1, button Z2 for ZONE 2, button Z3 for ZONE 3). The LED above the button lights up.
4. Set the level control (24) of the master channel used to approx. 2/3 of its maximum.
5. Speak into the microphone. Adjust the gain control (7) of the channel in such a way that the level indication (20) of the master channel used displays values in the 0 dB range (if required, the control can be fully opened or closed). In case of feedback or if the input level is too high even with the gain control closed, set the PAD switch (6) of the channel to the lower position: The input level will be attenuated by 15 dB.
6. Adjust the sound with the 2-way tone control (8) of the channel: The high frequencies (TREB) and low frequencies (BASS) can be attenuated or boosted up to 12 dB. Readjust the channel level with the gain control afterwards, if required.
7. With the control BAL (9), place the microphone signal on the stereo base as desired.

Adjustment of the Master Channels

1. Use the routing buttons Z1 to Z3 (routing buttons (13) for both microphone channels and routing buttons (19) separately for each stereo channel) to assign the input channels to the three master channels as desired:
 - Z1 pressed: input channel switched to channel ZONE 1.
 - Z2 pressed: input channel switched to channel ZONE 2.
 - Z3 pressed: input channel switched to channel ZONE 3.
2. For mixing several audio sources to a master channel, adjust the desired volume ratio of the audio sources to one another with the level controls (11, 18) of the corresponding input channels. Control the audio sources to be played at the highest volume to an optimum level and reduce the levels of the other audio sources accordingly.
3. Via its level indication (20), control the level of each master channel with the master level control (24). Usually, an optimum level is obtained when the level indication displays values in the 0 dB range. However, if the output level is too high or too low for the following unit, the master signal must be controlled to a correspondingly lower or higher level.
4. In each master channel, use the 3-way equalizer (21) to attenuate or boost the high frequencies (TREB), midrange frequencies (MID) and low frequencies (BASS) as desired (± 12 dB max.). Sound adjustments affect

the level; it may be necessary to readjust the master level afterwards.

5. Adjust the balance for each master channel with the control BAL (22).
6. Each master channel can be switched to mono with the STEREO/MONO selector switch (23) (button pressed).
In this case, the mono signal can be taken off at both jacks of the corresponding master output. This will allow operation with two mono power amplifiers, for example.

Talk-Over

When making an announcement while a music programme is played, switch on the talk-over function for the microphone at channel MIC 1 with the TALKOVER button (10) to improve the audibility of the announcement. When the button is pressed (LED above it lights up), the levels of the stereo channels 1 to 4 are automatically attenuated by 16 dB while announcements are made via the microphone. Disengage the button to switch off the function. The level attenuation always affects all three master channels even if the microphone channel MIC 1 has not been assigned to all master channels via the routing buttons Z1 to Z3 (13).

Monitoring via Headphones

The PFL function (pre-fader listening) allows you to monitor each of the stereo input channels 1 to 4 via headphones connected to the jack PHONES (4), even if the corresponding fader (18) is set to minimum. This will allow you, for example, to select the desired title on a CD or to time the moment for fading in an audio source. Alternatively, it is also possible to monitor each individual master channel ahead of its level control (24).

1. For pre-fader listening to an input channel, press the button PFL (16) of the channel (LED above the button lights up). For monitoring a master channel ahead of the master level control, press the button PFL (25) of the channel (LED above the button lights up).
2. Adjust the desired headphone volume with the control PHONES (3).

Care and Maintenance

Before starting any cleaning or maintenance activities:

1. Unplug the appliance from the mains.
2. Let the appliance cool down.

Cleaning

- Wipe all exterior surfaces of the appliance clean with a soft cloth dampened with a soap and water solution. Do not immerse or submerge any part of the appliance in water or any other liquid. Never use solvents or cleaning agents containing petroleum (petrol, kerosene, oil), paint thinner, turpentine, alcohol, or ammonia.

Maintenance

- 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.

Storage

- Store the appliance and its accessories in the original package in a clean and dry area.

Technical Specifications

- power supply 230 V~, 50 Hz
- input**
- microphone 3 mV/2.2k Ω
- phono 3.2 mV/47k Ω
- line 150 mV/47k Ω
- output**
- main 0 dB/1 V/600 Ω
- phones 300 mW/16-32 Ω
- tone control**
- treble +15 dB/-15 dB
- bass +15 dB/-15 dB
- frequency response 20 Hz to 20 kHz ± 2 dB
- distortion < 0.02 %
- S/N ratio > 70 dB
- dimensions 207 x 206 x 50 mm
- weight 1.35 kg
- headphones ≥ 300 mW/16 Ω

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website www.Velleman.EU. The information in this manual is subject to change without prior notice.

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Documents / Resources

	<p>velleman HQMX11010 4-Channel Mixing Panel with 3 Zones and USB Connection [pdf] User Manual</p> <p>HQMX11010 4-Channel Mixing Panel with 3 Zones and USB Connection, HQMX11010, 4-Channel Mixing Panel with 3 Zones and USB Connection</p>
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References

-  [Velleman â€™ Wholesaler and developer of electronics](#)

