

CEntrance

MixerFace R4

Mobile Recording Interface



User Manual

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Recording Studio, in Your Hand

These days, your smartphone or tablet is not only your Digital Audio Workstation, but also your means of sharing content with the world online. MixerFace R4 takes advantage of this environment by connecting your audio sources with the digital ecosystem, making it the ultimate mobile recording interface.

Modern location audio professionals demand rechargeable batteries and field reliability. Production crews, musicians, online personalities, and field recording enthusiasts alike share a need for a ***durable, portable recording tool that delivers pristine audio quality***, available on-the-go, session after session. MixerFace R4 is a modern, sophisticated piece of recording equipment, which allows you to create pro-level content in any location.

Table of Contents

FEATURES AT A GLANCE.....	3
TOP PANEL CONTROLS.....	7
FRONT PANEL FEATURES.....	16
BACK PANEL FEATURES.....	18
TROUBLESHOOTING STEPS	26

Features at a Glance

One of the most impressive features of MixerFace R4 lies in its digital technology, which connects the built-in pristine analog preamplifiers to your phone and tablet's audio capturing app(s) for recording and playback. While your phone or tablet replaces the laptop, MixerFace R4 places the entire production studio in the palm of your hand.

Top Panel Adjustments

MixerFace lives up to its name—it's part audio mixer, part recording interface. The top panel looks like a familiar music mixer, offering an easy way to adjust signal and monitoring levels. The controls are laid out logically, making sure all audio adjustments are right at your fingertips.

Connectivity Options

Despite R4's small footprint, its front and back panels pack multiple connectors for inputs and outputs. R4's strength is in its extensive connectivity options. There are a total of *four analog inputs* and *six analog outputs*, which allow routing your audio to headphones, monitors, and line-level devices. Digital input/output over micro USB allows easy connections to computers, tablets and smartphones.

Preamps and A/D Converters

Don't let the small size fool you! MixerFace R4 includes two boutique microphone preamplifiers with custom ***Jasmine™*** technology, which delivers clean, velvety-smooth sound with the lowest noise and distortion. It uses professional A/D and D/A converters, which operate at sampling rates

of up to 192kHz, and resolutions up to 24-bit, meeting the most demanding needs of today's content producers.

Phantom Power

MixerFace R4 offers +48V phantom power on channels 1 & 2, enabling you to use professional condenser microphones. Unlike other devices, it offers true +48V, which means you can use it with any condenser microphone in your mic locker. This feature was previously found only in studio-level products, but now MixerFace R4 makes it available in a mobile package.

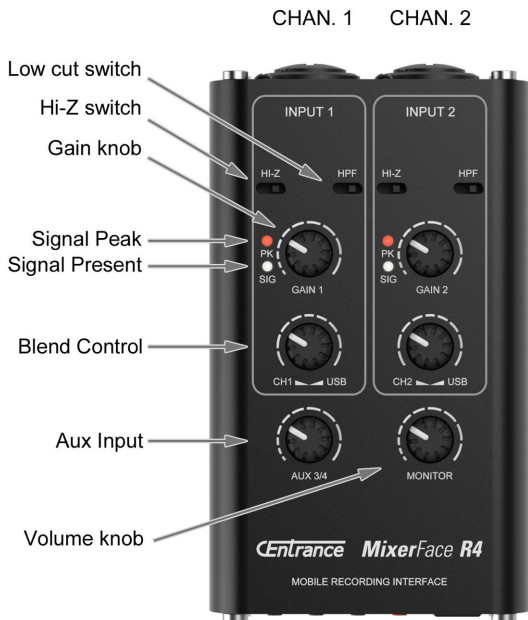
Signal Level LEDs

To ensure high-quality, distortion-free recording, each channel features bright "SIG" and "PK" LED indicators for monitoring incoming signal strength. White LEDs

indicate signal present (“SIG”) and Red LEDs indicate overload or peak (“PK”).

- White LEDs turn on when the input signal level is 40dB below clipping.
- Red LEDs turn on when the signal is 6dB below clipping.
- Once triggered, all LEDs remain on for a little while to make sure you notice them.

Top Panel Controls



Top panel controls, as described below

Channel Switches

All switches are active when the lever is moved to the right. The levers are recessed to prevent accidental adjustment. Use a thin, sharp object, such as a paperclip, toothpick or a pen tip to slide the lever to the right to activate the feature.



Channel switches and the GAIN knob

LINE / Hi-Z switch

These switches select between line input and electric guitar (“Hi-Z”) input on the ¼” portion of the Neutrik combo jack, per channel.

MixerFace R4 includes two professional, electric guitar preamplifiers with high impedance (“Hi-Z”) inputs. This means you can connect MixerFace R4 directly to electric guitar and bass to record anywhere.

Recording two different instruments or signals is possible. For example, connect a Microphone to Channel 1 and Guitar to Channel 2, or record Guitar on one channel and mono keyboard on the other. Each channel works independently of the other, offering diverse possibilities for recording.

Hi-Z switch operation is described below:

- Slide the lever to the left to engage the “Line” position. Hi-Z input is disconnected and input gain is reduced to accommodate line-level sources on the ¼” jacks.
- Slide the lever to the right to engage the “Hi-Z” feature per channel. Ideal for connecting electric guitar and bass.

Low Cut Switch (HPF)

To simplify recording in noisy environments and reduce wind or mic handling noise in outdoor recordings, low cut switches are available on each input channel. By design, the low frequency rumble is cut early – right at the input jack, long before the mic preamp has a chance to overload and ruin your take. The switches are labeled HPF, short for

“High Pass Filter”, which is a more appropriate name, if you want to get technical about it. The 6dB/octave cut is below 130Hz.

GAIN Control

MixerFace preamplifiers have a wide gain adjustment range of over 55dB. This covers a variety of applications – from on-the-mic narration, to recording nature sounds from a distance, using X-Y stereo microphones. The two gain controls let you adjust the levels of the individual input channels for minimum noise and distortion. A common guideline when adjusting input levels is to let the red “peak” LED blink occasionally, but not stay illuminated all the time. The white “signal present” LED is useful to check signal level during quieter passages.

Signal Peak & Present LEDs

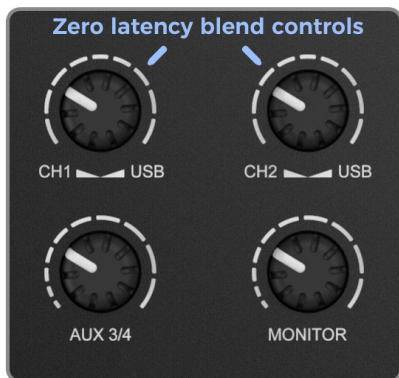
The White LED labeled “SIG” illuminates to indicate “signal present”. This happens when the audio level at the input of the A/D converter reaches -40dB. The white LED stays illuminated until the signal drops below the -40dB threshold.

The Red LED labeled “PK” illuminates to indicate “signal peak”. This happens when the audio level at the input of the A/D converter reaches -6dB. The red LED stays illuminated until the signal drops below the -6dB threshold.

As these bright, sunlight-visible lights blink with the audio, they attract attention, offering a simple way to see signal levels at a glance, and make gain adjustments as necessary.

Blend Controls (CH — USB)

Blend controls adjust the mix between the zero latency input signal and USB playback. This allows you to strike a balance between the inputs on Ch 1 or 2 (CCW) and the stereo signal coming back from your computer or smartphone (CW), as seen below:



Blend, Aux3/4 and MONITOR controls

You will find this knob useful when playing your instrument over a backing track fed from the computer. Another use of this feature is in Voiceover, where you need to narrate over a music bed streaming from the computer. In both cases you can adjust the blend to taste.

This knob also comes in handy when you are using your computer or smartphone as an effects processor and need to dial in just the right amount of direct signal vs. effects return (AKA dry/wet control).

When monitoring the inputs, rotate the dials counter-clockwise to silence the signal from USB. When playing back from the computer, smart phone or tablet, rotate the dials clockwise to silence the input channels.

Note: The blend you create in your monitors is for monitoring only. It will not be recorded. Channels 1...4 are recorded as a stereo mix.

AUX 3/4 Control

The Aux 3/4 knob adjusts the level of the stereo signal fed into the Auxiliary input (line input) located on the back panel. You can connect an MP3 player or another source to this input in order to play along with a click track, a prerecorded track or to overdub.

Note: The stereo mix of CH 1&2 and Aux $\frac{3}{4}$ in your monitors will be exactly the way it will be captured in your recording software.

MONITOR Control

The MONITOR volume knob controls the level of the entire mix as monitored through the headphones or balanced outputs.

Note: If the MONITOR knob is turned all the way up and your monitor level is still too low, adjust the blend controls counter-clockwise.

Front Panel Features

The Front panel contains combo input and balanced output connectors.



Inputs 1 and 2

MixerFace R4 features Neutrik combo XLR jacks for connecting mic, line-level sources, electric guitar, bass, etc.

Balanced Outputs (TRS)

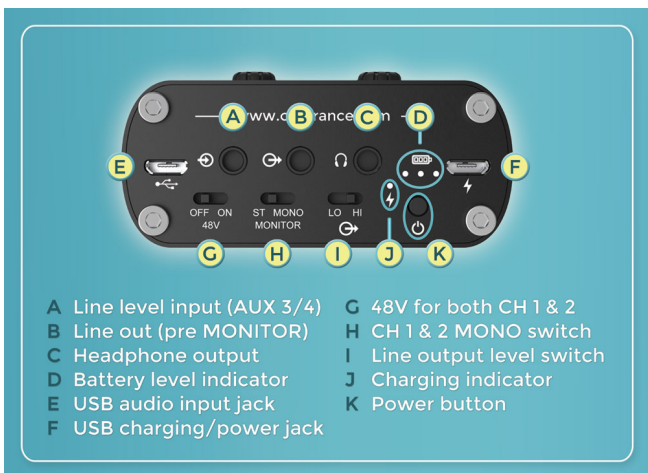
While you may do most of your monitoring with headphones, sometimes it's good to listen to the mix on larger studio monitors.

We have provided two 1/8" (3.5mm) balanced outputs on the front panel. Use these outputs to connect MixerFace R4 to external powered monitors. The 3.5mm outputs use industry-standard TRS pinout, with "Hot" connected to the left (tip), "Cold" connected to the right (ring) and "Common" connected to the ground (sleeve) pin. A special cable may be required. Consult the CEntrance website for recommendations.

The top panel MONITOR knob adjusts the level at both balanced outputs. This allows you to control the level of your monitor mix right from the MixerFace. No need to get up and walk to adjust the monitors.

Back Panel Features

Back panel controls are explained below.



Power Button

The power button turns the power on/off.

- To turn on, press and hold for three seconds until the battery level LEDs light up.
- To turn off, press and hold for three seconds until the battery level LEDs rapidly blink to indicate: “bye-bye”.

Charger Connection

MixerFace R4 will charge from any standard 5V charger by connecting a USB cable to the *right hand side* micro USB jack, located next to the battery LED indicators. For best results, use a charger that offers at least 2A of output current.

Note: There is no danger in leaving the charger plugged in indefinitely – the battery will stop charging when full and will only top off as needed, automatically.

Battery Level and Charging LEDs

Three white LEDs to the left of the power jack indicate charge level when the unit is turned on, as follows:

- 3 LEDs: over 75% battery is left
- 2 LEDs: about 50% battery is left
- 1 LED: less than 25% of battery is left

The charging LED turns on when the unit is charging from an external source. This LED will turn off when charging is complete. This LED works independently of the power switch and only tracks the battery charging status.

Battery Operation

MixerFace R4 will operate for about 8 hours on a full charge. Phantom power and certain

condenser microphones may reduce this time slightly. The unit should charge to 90% in 4 hours and to 100% in 5 hours. The battery is not user replaceable, but is expected to provide years of uninterrupted service.

USB Audio connection

MixerFace R4 may be used with iOS, Android, Windows, Mac and Linux devices as a USB recording device. Connect a standard micro USB cable from your smartphone, tablet or computer to the *left hand side* micro USB socket on the back panel of MixerFace R4. The MixerFace R4 is now ready to be used as a USB recording interface.

Note: For iOS devices, a Lightning to USB adaptor is required. For Android devices, an OTG cable is required. For Windows devices, download an ASIO driver from the CEntrance website.

Line Input (Aux In)

Line input stereo 1/8" (3.5mm) jack feeds the Aux 3/4 level knob described above. It is useful for connecting external sources, such as CD player, MP3 player, mixer, etc. Inputs 3 and 4 are mixed with Channels 1 and 2, enabling a number of applications: playing along, overdubbing, multi-tracking and stage mixing (R4 is great for coffee shop gigs).

Line Output (Aux Out)

The 1/8" stereo Line output can connect to another device such as a DSLR camera. This way MixerFace R4 serves as a high-quality mic preamp for your camera, which dramatically improves your video's audio quality. You could also connect this output to a mixer or an external recorder, for additional monitoring options or for recording a safety copy.

Headphone Output

MixerFace R4 can accommodate a wide range of headphones for monitoring. It features a 1/8" (3.5mm) headphone jack and a clean, powerful headphone amplifier using technology from the CEntrance audiophile product line. Headphone models with lower impedance (25...50 Ohms) will generally offer higher sound level.

Phantom Power Switch

For Condenser microphones MixerFace R4 supplies +48V phantom power selectable via a back panel switch. Move the switch to the right to turn 48V on. It will be applied to both input channels at once. Be careful, a pop may be heard in headphones. Note: 1/4" inputs are not affected by 48V, but turn 48V off when using XLR cables with line-level sources.

MONO Switch

MixerFace R4 allows you to monitor recorded audio in Mono and Stereo.

In Mono Mode, each input channel is monitored in both ears. This is useful for recording from mono sources, such as interviews, spoken word, guitar and bass, etc. In this mode, all input sources from Channel 1 and Channel 2 appear in the middle of the head when listening to headphones.

In Stereo Mode, the input channels appear on their respective sides in headphones – L on the left and R on the right. This is useful when monitoring stereo material, such as feeds from a mixing console, stereo keyboard, or recording from an X/Y stereo microphone pair.

Output Level Switch

This switch adjusts the level at the 1/8" (3.5mm) line output (aux output) jack. This control does not change the level at the balanced output jack.

- Use the Low position with DSLRs, which only have a mic-level input.
- Use the High position with line level devices such as amplifiers, audio recorders, mixers, etc.

Troubleshooting steps

Here are some quick troubleshooting steps in case your product is misbehaving:

Symptom	Cause	Resolution
All LEDs are off, no sound is heard	Battery is dead	Connect a charger to the right USB jack
R4 takes too long to charge	Insufficient charger	Use 2A or greater charger
No sound in headphones	Input level or volume control at minimum	Check AUX 3/4 or MONITOR knobs
Cannot hear channel monitor or playback	Blend control in the wrong position	Turn Blend knob CW (USB) or CW (Channel input)

Symptom	Cause	Resolution
Input is clipping	Wrong input jack used	Switch to line-level inputs; Adjust gain
Guitar is too quiet	Hi-Z mode not enabled	Check the Hi-Z switch
Camera receiving low audio from R4	Line Output too Quiet	Set line output switch to HIGH
Unit does not connect over USB	USB cable plugged into the wrong jack	Plug USB cable to the left USB jack
R4 doesn't work with Windows	CEntrance Universal Driver not installed	Download and install the driver

Warranty Service

MixerFace R4 comes with a one-year worldwide warranty. In the unlikely event that the product requires service, please contact CEntrance by one of the ways listed below. We will be glad to help. If you are planning to send the unit in for repair, please first request an RMA number by calling or emailing us.

CEntrance, LLC

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We spent a long time painstakingly developing this product. We want to thank you for your support and wish that MixerFace R4 brings you many years of quality service!

- The CEntrance Team