Behringer 000-E5902-00010

Behringer Ultravoice UV1 Channel Strip and USB Audio Interface

User Manual

Introduction

The Behringer Ultravoice UV1 is an all-in-one vocal channel strip and USB audio interface designed to provide a comprehensive solution for capturing high-quality vocals. It integrates a premium Midas microphone preamp with a full suite of vocal processing tools, making it suitable for music production, podcasting, and live streaming. The UV1 allows for precise control over dynamics, sibilance reduction, and harmonic enhancement, delivering a professional studio-grade sound. It can function as a standalone USB audio interface or integrate seamlessly with an existing audio setup.
This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Ultravoice UV1.

Product Overview

The Ultravoice UV1 combines several essential audio processing functions into a single, compact unit. Key features include:

- **Midas Microphone Preamp:** High-quality preamp with phantom power, ultra-low noise, and high gain for detailed audio capture.
- **Compressor:** For dynamic range control.
- **Gate/Expander:** To eliminate unwanted background noise.
- **De-Esser:** To reduce harsh sibilant sounds.
- **Enhancer:** For harmonic enrichment and clarity.
- **USB Audio Interface:** Built-in 192 kHz USB interface for direct connection to a computer.



Figure 1: Front Panel Layout of the Behringer Ultravoice UV1. This image displays the XLR/TRS combo input, gain control, phantom power switch, low cut filter, process bypass button, compressor controls (Drive, Density), De-Esser controls (Frequency, Threshold), Enhancer

controls (LF Detail, HF Detail), Expander/Gate controls (Threshold, Ratio), Output Gain, Mix control, Monitor Level, headphone output, USB indicator, and Power switch.

Setup

1. Unpacking and Inspection

Carefully unpack the Behringer Ultravoice UV1 and inspect it for any signs of damage during transit. Retain the original packaging for future transport or storage.

2. Power Connection

1. Ensure the UV1's power switch is in the OFF position.
2. Connect the supplied power adapter to the DC input on the rear panel of the UV1.
3. Plug the power adapter into a suitable AC power outlet.

3. Audio Connections

The UV1 features a combination XLR/TRS input on the front panel and various outputs on the rear. Refer to the rear panel diagram (if available, otherwise describe) for output connections.

- **Microphone/Line Input:** Connect your microphone (XLR) or line-level source (1/4" TRS) to the INPUT jack on the front panel.
- **USB Connection:** Connect the UV1 to your computer using a standard USB cable. The UV1 will function as a 192 kHz USB audio interface.
- **Analog Outputs:** Connect the analog outputs of the UV1 to your mixing console, audio interface, or powered monitors.
- **Headphone Output:** Connect your headphones to the 1/4" jack on the front panel for monitoring.

4. Driver Installation

For optimal performance, especially on Windows systems, it is recommended to download and install the latest drivers from the official Behringer website. Mac OS X systems typically do not require specific drivers.

Operating Instructions

1. Powering On

Once all connections are made, press the POWER switch on the front panel to turn on the UV1. The power indicator will illuminate.

2. Input Gain Adjustment

Use the **GAIN LINE** knob to adjust the input level for your microphone or line source. Observe the **LEVEL dB** meter to ensure the signal is strong but not clipping. Aim for the green LEDs to light up consistently, with occasional yellow flashes. Avoid constant red (CLIP) indication.

- **+48V Phantom Power:** If using a condenser microphone, press the **+48V** button to supply phantom power. Ensure the microphone is connected before activating phantom power.
- **LOW CUT:** Activate the **LOW CUT** filter (80 Hz) to remove unwanted low-frequency rumble or proximity effect from your microphone signal.

3. Compressor Operation

The compressor helps to control the dynamic range of your signal.

- **DRIVE:** Adjusts the amount of signal sent into the compressor. Higher settings result in more compression.
- **DENSITY:** Controls the compression ratio and character.
- Monitor the **GAIN REDUCTION (dB)** meter to see the amount of compression being applied.

4. De-Esser Operation

The De-Esser reduces harsh sibilant sounds (e.g., "s", "sh" sounds).

- **FREQUENCY:** Selects the frequency range where the de-essing will occur (e.g., 4 kHz to 8 kHz for typical sibilance).
- **THRESHOLD:** Sets the level at which the de-esser begins to act. Turn clockwise to increase the threshold, counter-clockwise to decrease.

5. Enhancer Operation

The Enhancer adds harmonic content to improve clarity and presence.

- **LF DETAIL:** Boosts low-frequency harmonics for added warmth and fullness.
- **HF DETAIL:** Boosts high-frequency harmonics for increased clarity and sparkle.

6. Expander/Gate Operation

The Expander/Gate helps to reduce unwanted background noise when the signal falls below a certain threshold.

- **THRESHOLD:** Sets the level below which the gate will close or the expander will reduce the signal.
- **RATIO:** Determines the amount of gain reduction applied when the signal falls below the threshold.

7. Output and Monitoring

- **GAIN OUTPUT:** Adjusts the overall output level of the UV1.
- **MIX (IN/PB):** Blends the direct input signal (IN) with the playback signal from your computer (PB) for zero-latency monitoring.
- **LEVEL MONITOR:** Controls the volume of the headphone output.

8. Process Bypass

Press the **PROCESS BYPASS** button to bypass all processing (compressor, de-esser, enhancer, expander/gate) and hear the raw input signal. This is useful for A/B comparison.

Maintenance

The Behringer Ultravoice UV1 requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.
- **Storage:** When not in use for extended periods, store the unit in a dry, dust-free environment, preferably in its original packaging.
- **Power Supply:** Only use the power supply provided with the unit. If a replacement is needed, contact authorized Behringer service centers.

Troubleshooting

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet faulty; Unit faulty.	Check power cable connection; Try a different power outlet; Contact Behringer support.
No audio output	Incorrect cable connections; Output gain too low; Mix knob setting incorrect; Computer audio settings.	Verify all audio cable connections; Increase GAIN OUTPUT; Adjust MIX knob; Check computer's sound output settings.
Distorted audio	Input gain too high (clipping); Output gain too high; Faulty cable.	Reduce GAIN LINE (check LEVEL dB meter); Reduce GAIN OUTPUT; Try a different cable.
Hum or noise	Ground loop; Faulty cable; Nearby electrical interference.	Ensure all equipment is on the same power circuit; Try different cables; Move unit away from power sources.
USB not recognized by computer	USB cable faulty; Drivers not installed (Windows); USB port issue.	Try a different USB cable; Install latest drivers from Behringer website; Try a different USB port on computer.

Specifications

Feature	Detail
Model	Behringer Ultravoice UV1
Item Model Number	000-E5902-00010
Item Weight	4.96 pounds (2.25 kg)
Product Dimensions	20.85 x 9.85 x 4 inches (52.96 x 25.02 x 10.16 cm)
Number of Channels	1
Hardware Interface	USB
Connector Type	USB
Compatible Devices	Personal Computer
Supported Software	Windows 10 / Mac OS X 10.4 or higher
Operating System	Windows, Mac OS X
Power Source	Corded Electric

Warranty and Support

For detailed warranty information and technical support, please visit the official Behringer website or contact your local authorized Behringer dealer. Product registration may be available and is recommended to receive updates and support.
Behringer Official Website: www.behringer.com

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