

Quick Start



Introduction

This is your for choosing the **Rilum Multi-head Delay** by **Klowra**.
Rilum is a multi-head delay and modulation pedal inspired by classic multi-track tape echo machines. It delivers authentic vintage multi-head delay textures, lets you explore tape-like flanging and chorus tones born from analog friction, and creates warm, atmospheric trails with rich spatial depth. The sound evolves through layers of feedback, eventually reaching unpredictable self-oscillation.

The Ramp function allows tonal characteristics to evolve organically, while Tap tempo and the unique Twisted Tempo control keep your delay time tightly synchronized with your musical rhythm. With an expression pedal or external footswitch, you can instantly trigger expressive, dynamic variations.

Featuring Analog Dry-Through, selectable True Bypass/Buffered Bypass and multiple stereo modes, **Klowra Rilum Multi-Head Delay** provides pure signal integrity and versatile performance support for any stage or studio setup.

Knobs and Switches

LAG TIME
Adjusts the delay time.
• **Below 12 o'clock:** Transitions from flanger into chorus tones.
• **Above 12 o'clock:** Ranges from slapback into long echoes (up to 1000 ms).

FEEDBACK
Adjusts the number of delay repetitions. Ranges from a single repeat at full counter-clockwise to near-infinite oscillation at full clockwise.

MIX
Adjusts the mix between the dry and wet signals. At the minimum, it outputs full dry signal; at the maximum, it outputs full wet signal with no dry signal. A 50/50 mix occurs around 2 o'clock on the knob.

RATE
Adjusts the modulation speed of the delayed signal. Turning clockwise increases the speed and produces more rapid fluctuations.

HEADS VOL
Adjusts the output level of the other heads.
Note: *The Main Head remains active at all times and cannot be muted via this knob.*

LO-FI
Adjusts saturation and texture of the delayed signal. Turning clockwise adds stronger degradation for a vintage character and increases the sensitivity for self-oscillation.

Footswitch
Controls effect ON/OFF. Press & hold to trigger Tap Tempo/Twisted Tempo or Ramp.

Refer to the "Tap Tempo/Twisted Tempo" or "Ramp" section for details.

The LED Button
Lit when active, press & hold this button while turning other knobs to adjust various functions and hidden parameters.

Hidden Parameters
To adjust the hidden parameters, press & hold the LED Button while turning the knob. A successful adjustment is indicated by the LED blinking yellow.

- Spawn**
Controls random volume changes between the main and other heads. Turn clockwise to add life and character to the **FEEDBACK**.
- RampATK**
Controls the attack time of the Ramp modulation, determining how quickly the fade reaches the **Snap-Set**. A shorter attack time results in a quicker transition to the **Snap-Set**, while a longer attack time creates a smoother, more gradual fade.
- RampRLS**
Controls the release time of the Ramp modulation, determining how gradually the transition fades back to the **Panel-Set**. A shorter release time results in a quicker return to the **Panel-Set**, while a longer release time provides a more drawn-out, fluid return to the **Panel-Set**.
- Depth**
Controls the intensity of the modulation applied to the delayed signal. Turn clockwise for deeper, more dramatic sweeping effects.
- Groove**
Linearly blends the volume of the other heads to allow for smooth rhythmic transitions. Specific subdivisions are isolated at the following positions:
 - Fully Counterclockwise:** Dotted-eighth head.
 - 12 o'clock:** Straight-eighth head.
 - Fully Clockwise:** Quarter-note triplet head.
- Sum-Inv**
Selects the phase relationship of the other heads to tailor tonality and low-end response.
 - Sum** (Turn fully counterclockwise): The other heads are summed in phase with the main head.
 - Invert** (Turn fully clockwise): The other heads are summed out of phase with the main head.

For adjustments to hidden parameters, please refer to the "Description of the LED Button" section.

Rear Panel I/O

9V DC
Connect to a 9V DC power supply with a center-negative polarity and a minimum current rating of 250mA.
Note: *If the power supply is insufficient, the pedal may malfunction.*

IN L (Mono)
1/4" mono (TS) unbalanced left input for mono setups.

IN R (Stereo)
1/4" mono (TS) unbalanced right input for mono setups.

OUT L (Mono)
1/4" mono (TS) unbalanced left output for mono setups.

OUT R (Stereo)
1/4" mono (TS) unbalanced right output for stereo setups.

CTRL
1/4" stereo (TRS) balanced input for connecting an expression pedal or external footswitch.

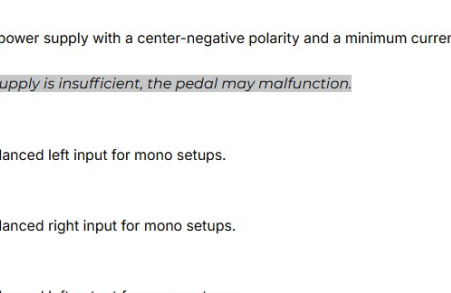
Note: *Please refer to the "External Control" section for information on how connection is recognized.*

Signal Path

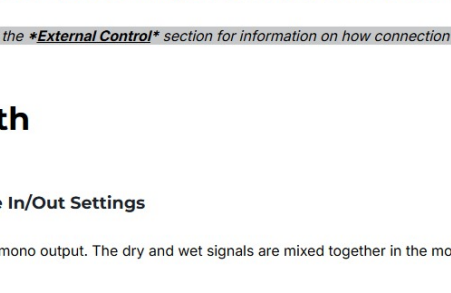
Configuring the In/Out Settings
1-in, 1-out

- Mono input with mono output. The dry and wet signals are mixed together in the mono output.

1-in, 2-out

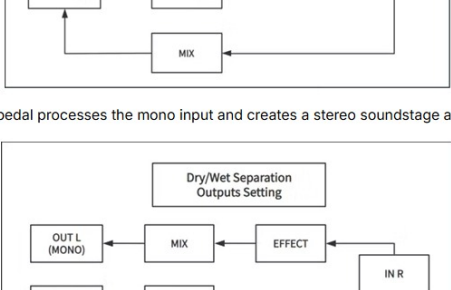


• For the **IN L**, the pedal processes the mono input and creates a stereo soundscape across both outputs.



• **Dry/Wet Separation stereo output** : For the **IN R**, **OUT R** outputs the dry signal only; **OUT L** outputs the wet signal only.

***About Dry/Wet Split:** This configuration splits your guitar signal into two distinct paths: one carrying the unaffected (dry) sound, and the other carrying the processed (wet) signal. This is particularly useful for parallel mixing in studio setups or advanced live signal routing.*



In full stereo operation, the dry and wet signals are processed and mixed independently for the left and right channels.

Description of the LED Button

The LED Button is the heart of the Rilum.
You can determine the current operating status of the **Rilum** by observing the color of the LED button. The LED button can be pressed briefly or in combination with other knobs to adjust various functions or parameters.

Learning to interpret the LED colors and understanding the different ways the button can be pressed are essential for familiarizing yourself with the **Rilum's** operation.

What the LED Colors Mean

- White** : Tap tempo/Twisted Tempo function active;
- Blue** : Tap tempo/Twisted Tempo is actively being triggered.
- Orange** : Ramp function active;
- Violet** : Ramp is actively being triggered.

What the Button Can Adjust

- Toggle the Tap Tempo/Twisted Tempo or Ramp**
Press once to switch between **Tap Tempo/Twisted Tempo** and **Ramp**.
- Save Snap-Set**
Press & Hold to save the current parameter settings as **Snap-Set**. The LED blinks violet to confirm.
- Adjustment of Hidden Parameters**
Press & Hold while rotating the knob above the hidden parameters. Successful adjustment is indicated by the LED blinking **yellow**.

Tap Tempo/Twisted Tempo

*** In Power-Up Mode, select Tap Tempo or Twisted Tempo (factory default: Tap Tempo).***

Press & hold the footswitch while the LED is white. The LED turns blue to indicate the selected Tap Tempo or Twisted Tempo is active.

Tap Tempo
With the LED blue, tap the footswitch repeatedly at your desired tempo. Each tap updates **LAG TIME** to match the BPM. The LED will blink in time with the detected BPM. After 5 seconds of inactivity, the LED returns to white and the pedal exits **Tap Tempo** automatically.

Twisted Tempo
Hold the footswitch to engage **Twisted Tempo**. The effect starts immediately and modulates **LAG TIME** for a tape-scrubbing sound.

- RATE** sets the modulation speed.
- LAG TIME** sets the modulation depth (sweeping between the current value and 0)

Release the footswitch to exit **Twisted Tempo**, the LED returns to white.

- For subtle movement, keep **RATE** low and use a small **LAG TIME** setting.
- For extreme warble, increase **RATE** and **LAG TIME**.

External Control Tips
With an external dual footswitch connected, you can combine **Twisted Tempo** and **RAMP** for more expressive textures. Use Twisted Tempo for instant twisting or warbling motion and use **RAMP** to sweep the **RATE** or **LAG TIME** between two settings, creating dynamic back-and-forth transitions.

Ramp

Press & hold the footswitch while the LED is orange. When the LED turns violet, you've entered Ramp.

Ramp allows for smooth, dynamic transitions between two sets of parameters:

- Panel-Set** - Your current front-panel parameter settings.
- Snap-Set** - A saved set of parameters stored using the LED Button.

This feature creates expressive, evolving faders that add depth, movement, and emotion to your sound. The speed and character of the transition are defined by two parameters:

RampATK (Attack Time):
Controls how quickly the effect fades from the **Panel-Set** to the **Snap-Set**.
- A shorter attack gives a fast, sharp transition.
- A longer attack creates a smoother, more gradual fade.

RampRLS (Release Time):
Controls how quickly the sound returns from the **Snap-Set** to the **Panel-Set**.
- A shorter release results in a quick recovery.
- A longer release provides a more drawn-out, fluid return.

Ramp Modes
Ramp supports two switching modes - **Momentary** and **Latched**—giving you flexibility to match your performance style.

Momentary Mode:
Press & hold the footswitch to fade into the **Snap-Set** over **RampATK** time. Release the footswitch to return to the **Panel-Set** over **RampRLS** time.

Latched Mode:
Press once to transition to the **Snap-Set (RampATK)**, and press again to return to the **Panel-Set (RampRLS)**.

To select between Momentary and Latched modes, see the "Power-Up Modes" section.

Power-Up Modes

How To enter Power-Up Modes:
Press & hold the footswitch while powering on the pedal. A flashing LED indicates successful entry. Once your settings are configured, press the footswitch again to exit **Power-Up Modes**.

In this mode, you can adjust the following settings:

Bypass & Trails Modes
Switch between modes by short-press the **LED button**.

- True Bypass**
The signal is routed directly through the pedal with no buffering or coloration.
- Green LED flashes** to indicate direct True Bypass mode.
- Buffered Bypass (Trails on)**
The signal is routed through a buffer with **Analog Dry-Through**, allowing delay trails to continue after the effect is bypassed.
- LED Red flashes** to indicate Buffered Bypass mode.

Tap Tempo and Twisted Tempo Switching
Select by rotating the **LAG TIME** knob.

- Turn fully left for **Tap Tempo** (LED **yellow** flashes 3x).
- Turn fully right for **Twisted Tempo** (LED **blue** flashes 3x).

Ramp Lock
Select by rotating the **FEEDBACK** knob.

- Turn fully left for **Momentary** (LED flashes **yellow** 3x).
- Turn fully right for **Latched** (LED flashes **blue** 3x).

Momentary:
Hold the footswitch to transition to **Snap-Set** over **RampATK** time. Release to return to the current set over **RampRLS** time.

Latched:
The first press transitions to **Snap-Set** over **RampATK** time. The second press returns to the current set over **RampRLS** time.

LED Brightness
Adjust by rotating the **LO-FI** knob.

- Turn fully left for dimmest.
- Turn fully right for brightest.

External Control

Connection & Activation
When connecting an external TS/TRS footswitch or expression pedal, the LED indicator will flash **red**. Trigger the footswitch or pedal repeatedly during this state.
Once the connection is successfully recognized, the **Rilum** will return to normal operation.
Note: *If the External Control is not fully activated, it may result in limited functionality.*

External Footswitch Compatibility
When connecting an external TS/TRS footswitch, there are two specific functional settings, depending on the color of the LED indicator:

- LED White** - The current footswitch-specific function is **Tap Tempo/Twisted Tempo**.
 - TS Footswitch**: Momentary triggers Ramp.
 - TRS Footswitch**:
 - Tip Position: Momentary triggers Ramp.
 - Ring Position: Momentary triggers Tap Tempo/Twisted Tempo.
- LED Orange** - The current footswitch-specific function is **Ramp**
 - TS/TRS Footswitch**: Momentary triggers Tap Tempo/Twisted Tempo.
 - TRS Footswitch**:
 - Tip Position: Momentary triggers Ramp.
 - Ring Position: Momentary triggers Tap Tempo/Twisted Tempo.

Expression Pedal Compatibility
When an expression pedal is connected, it takes direct control over the **Ramp** by blending between the **Panel-Set** and **Snap-Set**. In this mode:

- The **RampATK** and **RampRLS** parameters are disabled.
- Ramp** cannot be triggered by Press&Hold the footswitch.
- The expression pedal locks **Rilum** into **LED White (Tap Tempo active)**, and mode switching to **LED Orange (Ramp active)** is disabled.

Firmware Update

How do I update my Klowra pedal?
1/ Download the **latest firmware update file** for your model from the relevant model page.
2/ Connect the Klowra pedal to your computer using the USB-C data cable.
3/ Hold down the footswitch&the LED button while powering on, the LED flashing red.
4/ Open the firmware update file. Please avoid opening multiple installers at the same time, as this may cause detection issues. Click Update to begin installing the firmware.
5/ After the successful update, the LED turns off. Restart the pedal and enjoy!

STILL UNABLE TO CONNECT KLOWRA PEDAL?
If reconnecting the pedal or restarting the software doesn't help, check the following:
1. Verify that the USB data cable is securely connected to both the pedal and your computer, and try using a different USB port if necessary.
2. Replace the USB data cable with a known-good one and attempt to reconnect the pedal.

IF THE PROBLEM CONTINUES, PLEASE FOLLOW THESE STEPS:
1. Close the update software, and then follow the steps below in order.
2. Connect your Klowra pedal to your computer with a USB data cable (not included).
3. Relaunch the update software.
4. Power on the pedal while holding both the footswitch and the LED button.
5. The LED button will flash red. Wait a moment, then click "Update" to begin the firmware process.

Specs

Inputs	2 × 1/4"TS Instrument jacks	Outputs	2 × 1/4"TS Instrument jacks
Input Impedance	500k Ohm	Output Impedance	100 Ohm
A/D & D/A	24 Bit 44.1K Hz	Max Input Level	+10 dBu
Power Source	9V DC power supply required	Current Draw	250mA
External Control	TS/TRS Momentary footswitch, or TRS expression pedal	Bypass Mode	Switchable: True Bypass, Buffered Bypass(AnalogDry-Through)
Hardware Interface	USB-C	Dimensions	54.7mm H x 124.8mm D x 69.2mm W(2.0" x 4.9"D x 2.7"W)

Find Your Vibe

Delay / Reverb
Overdrive / Fuzz / Distortion
Modulation / Filter / Synthesis
Octave / Pitch Shifting
Power Supplies
Accessories

Support & Resources

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