

EKKO™ EK-1 Delay Pedal

USER MANUAL

EKKO EK-1 User Manual rev. 1.0.1



CONGRATULATIONS!

You are now the owner of an EKKO EK-1 delay pedal!

EKKO is a high-quality aluminum, standard semi-analog delay pedal with true bypass. Semi-analog means that the direct signal from your guitar is always direct through, whether the pedal is in bypass mode or not. It can be controlled like a stand-alone effects pedal or using the AERO™ AE-1 wireless controller (optional):



GETTING STARTED

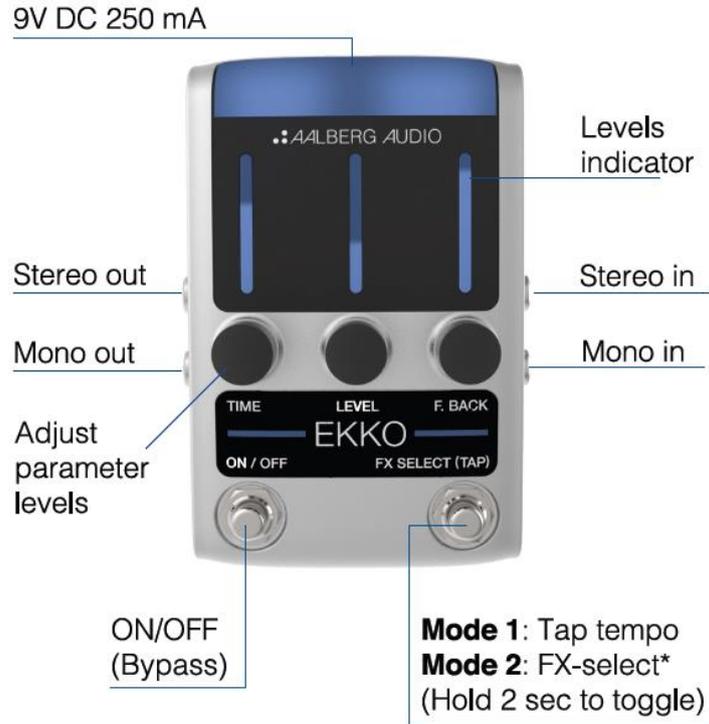
To get your pedal up and running you need a standard 9V DC, 2.1 mm plug, center negative power supply (minimum 250 mA). You will find the connector at the back of your pedal.

The pedal supports both mono and stereo connections. Combinations of these will lead to different properties in the output signal. See the input/output setups section for further explanations.

CONTROLS

<i>TIME</i>	Time between echoes
<i>LEVEL</i>	Adjusts the output level of your echo signal relative to the level of the direct signal (0-100%)
<i>FEEDBACK</i>	Controls the number of echoes
<i>FX SELECT/TAP TEMPO</i>	Two modes: <ul style="list-style-type: none"> - TAP – tap the desired delay time using footswitch (TAP) - FX-SELECT – Choose active effect parameter (<i>TIME</i>, <i>LEVEL</i> or <i>FEEDBACK</i>) for wireless control with AERO controller (optional)
<i>ON/OFF</i>	Set the pedal to ON (activated) or OFF (true bypass).

OVERVIEW



*Set active parameter for AERO™ AE-1 Wireless Controller

SPECIFICATIONS

Power supply	9V DC, 2.1 mm plug (center negative)
Current draw	250 mA
Impedance, input	1 MΩ
Impedance, output	1 kΩ
Delay time	0 ms – 2000 ms
Sound Quality (sample-/bit rate)	48 kHz/24-bits
Connectors	<ul style="list-style-type: none"> - INPUT (mono/stereo) - OUTPUT (mono/stereo) - DC power jack
Controls	TIME, LEVEL, F.BACK, ON/OFF (true bypass), FX SELECT (TAP)
Parameter level indicators	LED bar indicators for <i>TIME</i> , <i>LEVEL</i> and <i>F.BACK</i>
Dimensions incl. knobs (W x H x D)	93 x 57 x 142 mm / 3.7 x 2.2 x 5.6 inches
Weight	0.369 kg / 13.0 oz

SOFTWARE UPDATE

Running software updates on your wireless Aalberg Audio product is easy:

1. Set your Aalberg Audio pedal in update mode:
 - i. Unplug power jack
 - ii. Press and hold ON/OFF and FX-SELECT footswitches simultaneously then plug in power jack
 - iii. The LED at top right of the pedal will light up to indicate that the pedal is in update mode
2. Go to App Store and search for the *AALBERG UPDATER* app (Iphone 5 / Ipad 3 (incl. Ipad Mini) or later is required). *For Android users: we are working on it!*
3. Download the app on your mobile device and launch the app.
4. The Aalberg Audio device set to update mode will now show up in a list in the *AALBERG UPDATER*, and you can check the current revision of the software found on the device.
5. You can now choose if you want to update to the latest software available.
6. A status bar indicates the upload process and displays a confirmation when the new software has been successfully updated.

For more information, please visit: www.aalbergaudio.com/support

WIRELESS CONTROL – PAIRING

In order to control your Aalberg effects pedal using the AERO wireless controller (optional) you need to pair the devices.

Below is a step-by-step guide:

1. Set your devices in pairing mode:

- **AERO:**

- i. Turn off the AERO (slide switch set to '0')
- ii. Press and hold rotary knob button and left button* simultaneously, then turn the AERO on (slide switch set to '1')
- iii. The AERO LED starts blinking (red) to indicate that the AERO is in pairing mode

- **Aalberg effect pedal:**

- i. Unplug power jack
- ii. Press and hold FX-SELECT then plug in power jack
- iii. Lowermost LED in mid row starts blinking to indicate that the pedal is in pairing mode
- iv. Next to lowermost LED in mid row lights up when AERO in pairing mode is detected



- v. Repeat step i-iv for any additional Aalberg effects pedals
2. Confirm pairing:
 - i. When you have repeated the above steps for all of your Aalberg pedals, you need to press and hold the rotary knob button for 3 seconds, then release button.
 - ii. To indicate that pairing is completed, AERO LED (red) and lowermost LEDs in mid row for all pedals will light for 2 seconds
3. You are now ready to control your Aalberg effects pedals wirelessly!

For more information, please visit: www.aalbergaudio.com/support

INPUT/OUTPUT SETUPS

The Aalberg EKKO™ EK-1 Delay Pedal offers the following mono/stereo configurations:

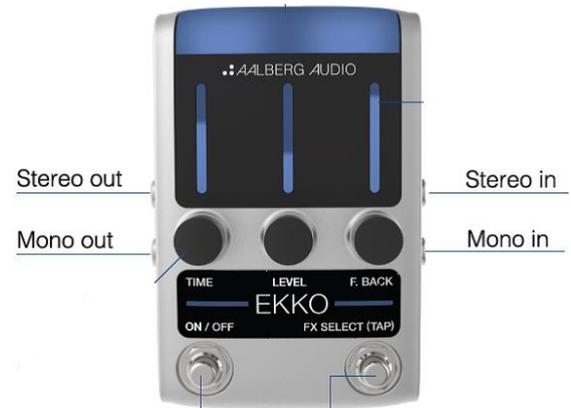
1. Mono in/Mono out
2. Ping-pong stereo
3. Dry/wet split
4. Dual mono

1. **Mono in/Mono out**

Connect your instrument to *Mono in* and the amplifier to *Mono out*.

2. **Ping-pong stereo**

Connect your instrument to *Mono in* then connect one amplifier to *Mono out* and another amplifier to *Stereo out*. The echoes of the direct signal will now alternate between the two outputs.



3. **Dry/wet split**

Connecting your instrument to *Stereo in* will split the dry wet signal as follows:

- *Mono out*: 100% wet signal
- *Stereo out*: 100% dry signal

4. **Dual mono**

This is useful if you want to maintain the stereo path for pedals in the signal chain. Connect the stereo outs from the previous pedal to both inputs on the EKKO (*Mono in* = left, *Stereo in* = right).

DISCLAIMER

Aalberg Audio accepts no liability for any damages made to persons or equipment when attaching or removing the industry velcro (AERO accessory).

WARRANTY

ONLY SEND PRODUCTS THAT:

- YOU HAVE TESTED YOURSELF
- ARE FOLLOWED BY A COPY OF THE RECEIPT
- ARE FOLLOWED BY AN EXPLANATION OF THE FAILURE

We offer a 2-year warranty on all our products. In the unlikely event of a malfunction, please contact us at support@aalbergaudio.com before sending us the product for repair. When the product has been returned to us at the cost of the sender, we will repair or replace your product and send it back to you - free of charge and usually within 4 weeks (shipping not included). The product needs to be accompanied by a copy of your receipt, serial number, return address, phone number, e-mail address and a brief explanation of the problem. If the product is altered or repaired by someone unauthorized by Aalberg Audio the warranty is no longer valid. Stores and distributors must always check products before sending them to Aalberg Audio for repairs. Please note that we cannot replace a product before we have received it here in Trondheim, Norway.

HISTORY

The inspiration for the delay pedals with wireless controller came to guitar player and inventor Rune Aalberg Alstad back in 2009, when he was tired of having to run over to the pedals and bend down all the time to change the effect settings. Five years later, after lots of testing and prototyping we are proud to introduce the world's first EKKO EK-1 Delay Pedal with the AERO AE-1 Wireless Controller. (Below you can see the different prototyping stages (from left to right): “*The Coffee Filter*”, 2010 – “*The Tank*”, 2012 – “*Prototype 3*”, 2013 - the final product, 2015)



IPR-RELATED

Design Protection pending in EU & USA

International Patent pending PCT/NO2014/050236

COMPLIANCE

Aalberg Audio accept and follow these regulations and directives.



ABOUT AALBERG AUDIO

Aalberg Audio AS is located in Trondheim, Norway. We produce wireless guitar effects with accompanying hardware and software. Please don't hesitate to contact us if you have any questions or inquiries! Visit: www.aalbergaudio.com



www.aalbergaudio.com

Trondheim
NORWAY

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The information in this manual is subject to changes without further notice.