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**KMA ENDGAME
Duality Calibrator**

KMA ENDGAME Duality Calibrator User Guide

Contents

**KMA
MACHINES**

KMA ENDGAME Duality Calibrator

Specifications

- Made in: Berlin, Germany since 2013
- Impulse Response Cabinet Simulation: Dual
- Power Requirement: 9V DC, minimum of 480 mA
- Connectivity: USB-C, Bluetooth, AUX, TS/TRS Line Out

Product Usage Instructions

1. Powering On and Connectivity:

   Connect a 9V DC PSU to the power input. The green MAIN LED will indicate that ENDGAME is powered. Use the USB-C port for loading user Impulse Responses and Firmware Updates. To connect via Bluetooth, follow these steps:
2. Hold the switch until the BT LINK LED flashes.
3. In your device's Bluetooth settings, select "KMA ENDGAME".
4. The LED will turn solid once the connection is established.

Audio Control
Adjust the LEVEL knob for the dual headphone outputs to control the volume. Use the XLR OUTPUT LEVEL control to adjust the output level from Mic Level to Professional +4 dBu. The GROUND LIFT switch can help alleviate hum when connecting to other devices.

Signal Chain and Monitoring
Connect your mono device or instrument to the INPUT. Use the INPUT GAIN control to adjust input levels, ensuring the Red INPUT CLIP LED does not illuminate. This setup is ideal for monitoring with regular guitar amps

on stage.

Bypass and Output Options
Switch 1 disables AUX and BT Inputs from the Main XLR/TRS Outputs, useful for IEM use. Switch 2 disables AMBIENCE, IR CAB, and POWER AMP Simulations from the TS/TRS Outputs. The fully balanced output provides stereo Main Mix at Line Level.

FAQ

Q: How do I reset the device?
A: To reset the device, power it off and back on again by disconnecting and reconnecting the power supply.
Q: What do I do if there is clipping present?
A: Use the INPUT GAIN control to reduce the level if the Red INPUT CLIP LED is illuminated.

Quick Start Guide

Thank you for purchasing this ENDGAME pedal. We hope you get many years of pleasure and use from this device and if this is your first product from our brand, welcome! This simple connecting guide should help start you on your journey to sonic creativity. However, if you wish to know all of the pedal's hidden secrets, check out the full manual on the product page at our website.

1. TDT WIDTH

   Sets the width of the Stereo True Double Tracking Doubler:

   - Fully Left (CCW): Mono/Centred (0%)|
   - Centre Indent: Stereo (50% left and right)
   - Fully Right (CW): Stereo Wide Split (100% left and right)

2. CABIR

   Dual Impulse Response Cabinet Simulation:

   - GNBK (Greenback 4×12)
   - U-A (User Slot A)
   - V30 (Vintage 30 4×12) – CMBK (Creamback 4×12) – U-B (User Slot B)

3. AUX MIX

   Sets the Level/Mix of the Auxiliary Input from the 3.5 mm Analog or Bluetooth® inputs

   - Fully Left (CCW): ENDGAME internal signal is 100% and AUX signal is muted
   - Centre Indent: Signals are 50/50 equal
   - Fully Right (CW): AUX signal is 100% and ENDGAME internal signal is muted

4. AMBIENCE

   - Sets the level of the built in Room Simulator
   - Fully Left (CCW): Off/Dry
   - Centre Indent: Ambience representative of a standard room
   - Fully Right (CW): a lush and even more spacious effect

5. TDT FX LOOP POSITION

   Moves the Stereo FX Loop before (PRE) or after (POST) the True Double Tracking Doubler

6. CAB IR FX LOOP POSITION

   Moves the Stereo FX Loop before (PRE) or after (POST) the Dual IR Cabinet Simulation

7. DOUBLER FOOTSWITCH

   Activates/Deactivates the Stereo True Double-Tracking Doubler

Blue LED above the switch indicates when active.

8. STEREO FX LOOP FOOTSWITCH

- Activates/Deactivates the Buffered Serial Stereo FX LOOP
- Blue LED above the switch indicates when active.
- Note: Holding down both switches for approx 1 second activates the MUTE function, no audio signal will pass to the XLR or TS/TRS Outputs and both LEDs will flash.
- To UNMUTE, push either switch.

9. MAIN LED

LED (Green) indicates ENDGAME is powered and functioning

10. BT LINK

LED (Blue) indicates ENDGAME's Bluetooth® status – see 15

11. INPUT CLIP

LED (Red) indicates if clipping is present via the INPUT or Stereo FX LOOP return – see 21

12. PWR AMP MODE

LED Colour Indicates the currently selected Power Amp model – to select see 23

13. USB-C

Connect to PC or MAC for loading user Impulse Responses and Firmware Updates

14. 9V DC

Plug a 9 V DC PSU (centre Negative) capable of providing a minimum of 480 mA in here

15. AUX IN

Connect analog audio via this mini 3.5 mm TRS connector. If Bluetooth® is not paired, then any external audio device connencted will be present via the Headphone Outputs or the Main Outputs on Jack and/or XLR*

16. BT PAIR

Allows connection with a Bluetooth® audio device for Audio Streaming into the Aux input, substituting the analog connection*. To active pairing mode:

- Push and hold the switch for 4 seconds until the BT LINK LED 10 flashes
- On your device's Bluetooth audio paring settings, select "KMA ENDGAME"
- LED will turn solid once connected
  Note: to disconect Bluetooth (e.g. to use the anlog AUX connection) push and hold the switch until the BT LINK LED is no longer illuminated

17. DUAL HEADPHONE OUT

Connect headphones via 3.5 mm TRS, dual outputs allow to you share your completed mix with another musician or use for IEM. The LEVEL knob adjusts the volume of both outputs simultaneously

18. FULLY BALANCED OUTPUT

Outputs the Stereo Main Mix (L/R) for FOH or Recording etc. The XLR OUTPUT LEVEL control adjusts the output level from Mic Level/-60 dBu (Fully Left/CCW) to all the way to Professional +4 dBu (Fully Right/CW). The GROUND LIFT switch can also help alleviate situations where you may encounter hum when connecting to other devices

19. TS/TRS LINE OUT

Outputs complete Stereo Main Mix (L/R) at Line Level

20. INPUT

Connect the last mono device in your signal chain here (e.g. preamp, modulation, mono cab sim etc.) or your source instrument (guitar, bass or other)

21. **INPUT GAIN**

Variable input control provides up to +/-24 dB of gain/reduction. Reduce the GAIN if the Red INPUT CLIP LED 11 is illuminated

22. **THRU**

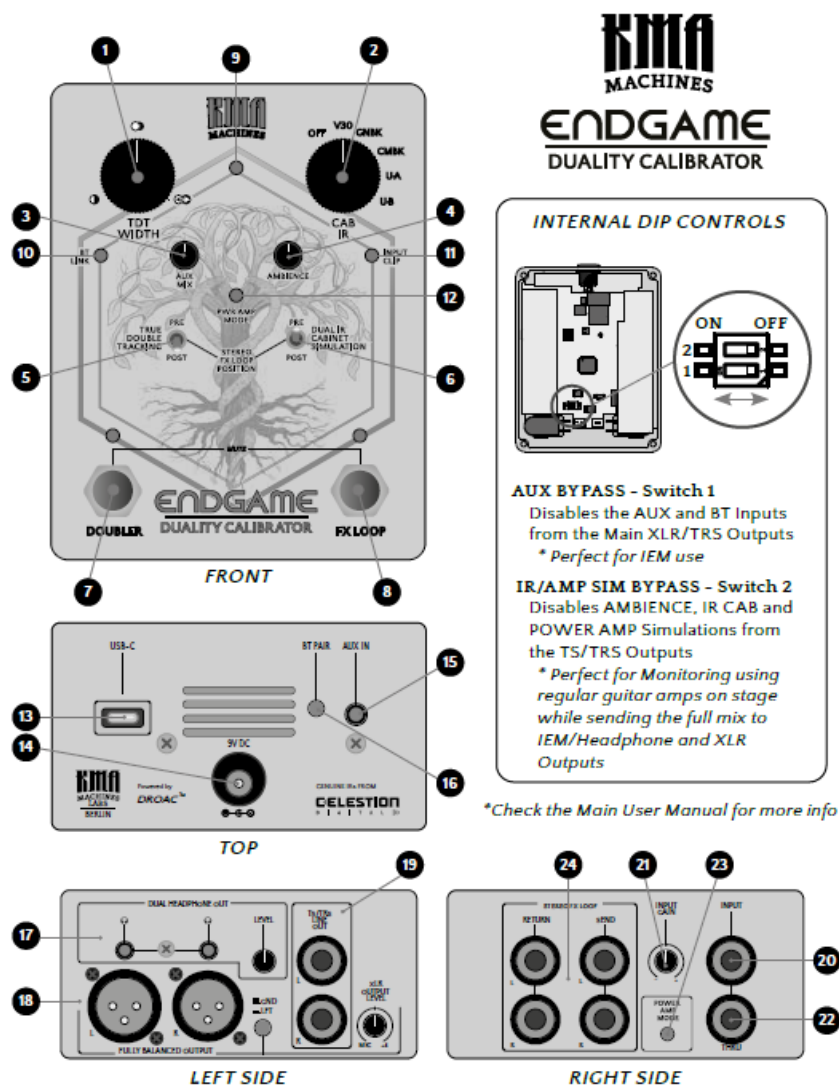Outputs INPUT signal in parallel e.g. for an amp, tuner output, separate channel etc.

23. **POWER AMP MODE**

Push button toggles between the three available Models and Bypass. The colour of the front panel PWR AMP MODE LED 12 indicates which mode is selected:

- EL34 (Green)
- 6L6 (Red)
- KT88 (Orange)
- Off (Blank)

24. **STEREO FX LOOP**

Insert Stereo devices using the SEND and RETURN jacks. The toggle switches on the top (DUAL IR CABINET SIMULATION 5 and TRUE DOUBLE TRACKING 6) sets the PRE/POST position of where the FX Loop is placed within ENDGAME's signal chain

Find ENDGAME's Main User Manual here

Made in Berlin, Germany since 2013
Please follow us on social: @kmamachines
e-mail: **hello@kma-machines.com** | website: **kmamachines.com**
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Documents / Resources

	KMA ENDGAME Duality Calibrator [pdf] User Guide ENDGAME Duality Calibrator, ENDGAME, Duality Calibrator, Calibrator

References

- **User Manual**