



ADDAC System
Instruments for Sonic Expression
Est.2009

INTRODUCING
ADDAC714
VINTAGE
CLIPPER

USER'S GUIDE . REV01
December.2022



From Portugal with Love!

Welcome to: ADDAC714 VINTAGE CLIPPER USER'S GUIDE

Revision.01 December.2022

DESCRIPTION

ADDAC714 is a dual channel soft clipping module. Diode based passive clipping acts as a "brick wall" limiter with a fixed knee given by the inherent diode physics. A passive RC low pass circuit adds a 3.3KHz -3db low pass filter which sculpts the overall tone while also adding further character to the effect.

At the top an On/Off [BYPASS] switch routes the signal into the Effect (Up: Active) or to the bottom output gain stage (Down: Bypassed).

The amount of clipping is set by the [GAIN] control, it mostly works as a threshold control for how much clipping will be applied. As more clipping is applied the signal's amplitude will also decrease, to compensate for this we set up a gain compensation stage to keep the output amplitude balanced across the Gain range.

Symmetry chooses between bipolar clipping or positive clipping, this relates to the harmonics generated, bipolar for odd and even harmonics (up position) and unipolar for odd harmonics only (down position).

At the second stage, an opamp based x2 output gain with a clipping led, which monitors the clipping at the output, and an [Output] control to set the output volume.

Having the top and middle gain stages provides flexibility allowing the user to completely distort the signal on the top stage and tame it's output level with the second stage.

At the bottom, Input jacks for both channels (Left input is normalised into Right input) and output jacks

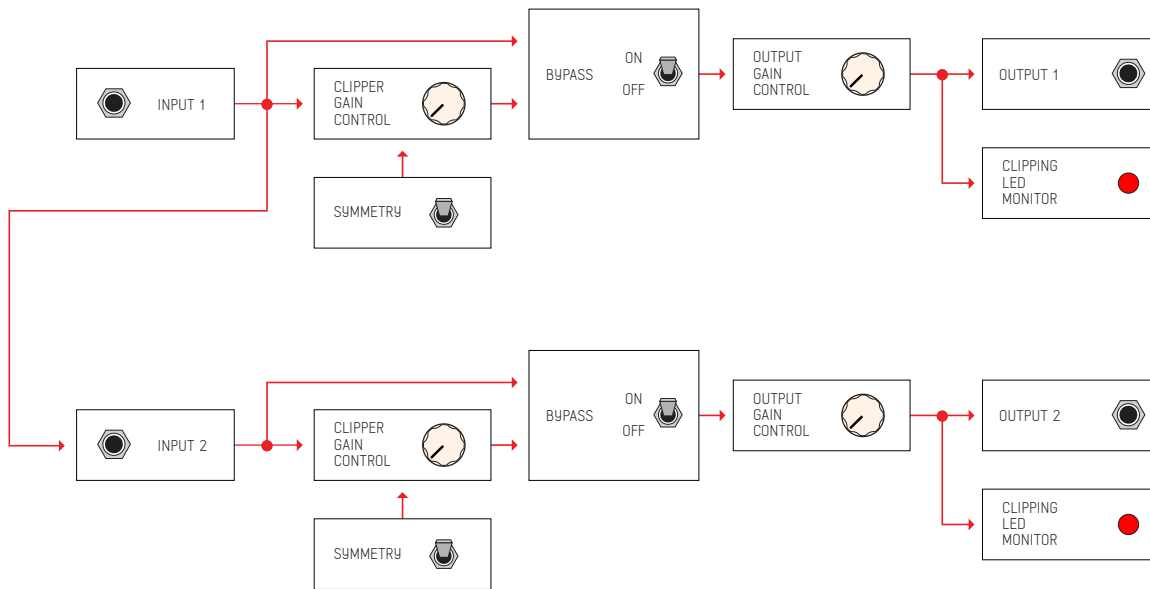


This module will also be available as a full DIY kit.

Tech Specs:
6HP
4 cm deep
40mA +12V
40mA -12V

ADDAC714 VINTAGE CLIPPER

SIGNAL FLOW DIAGRAM



For feedback, comments or problems please contact us at:
addac@addacsystem.com

CONTROLS DESCRIPTION

