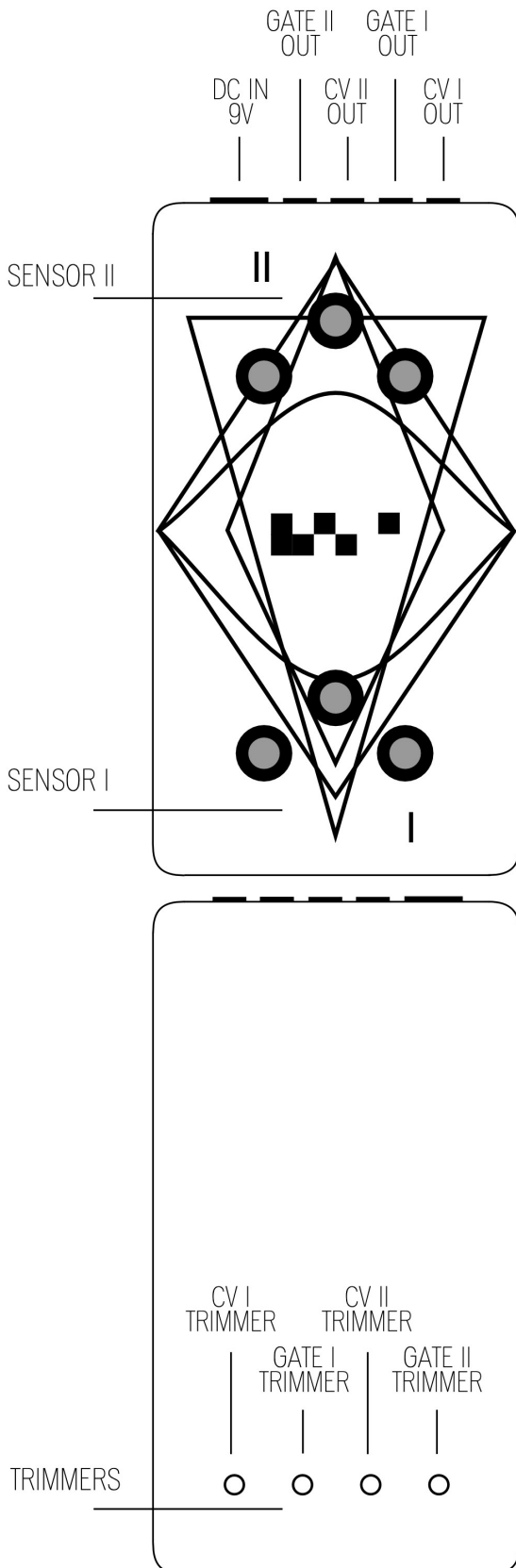


INTRODUCTION

The KOMMANDER is a CV/Gate motion controller. It gives you dynamic access to any of your CV/Gate controllable instruments. Instead of turning knobs and pushing buttons, the KOMMANDER allows you to control your instruments by moving your hand, or foot... The KOMMANDER offers two sensors with two voltage outputs each, so you are able to control up to four parameters at the same time.



POWER SUPPLY

POWER 9V DC IN. The KOMMANDER has to be powered with a 9V „Boss Style“ power supply (500mA). The polarity of the tip has to be negative.



CONTROLS

MOTION SENSORS: The KOMMANDER has two motion sensors, which have three LEDs each. The two outer ones emit infra red light, the one in the middle receives the light that is reflected. You might use different surface textures to reflect the light. It can be your hand, but also a shoe sole or a piece of paper etc. Different textures reflect light in a different way. Some work better than others. Fluted shoe soles e.g. sometimes just need a piece of duct tape to work well with the KOMMANDER. Just play around it with it and you'll find your ideal setup!

TRIMMERS: On the KOMMANDER's bottom panel you'll find four little holes. These are trimmers, which can be adjusted with a small standard screw driver (+ or -). Each trimmer belongs to a CV or GATE output (*see picture*).

The trimmers connected to the CV outputs allow you to attenuate its maximum voltage output, so you can e.g. set the range from 0V to 5V instead of 0V to 8V. Turn your screwdriver to the right to increase the maximum CV output, turn it to the left to decrease the maximum output.

The trimmers connected to the GATE outputs allow you to control the GATE's threshold. Turn the trimmer to the right to increase the threshold (it will be physically further away from the sensor), turn the trimmer to the left to decrease the threshold (it will be closer to the sensor).

OUTPUTS

CV/GATE: The KOMMANDER offers four Control Voltage (CV) outputs. These are positioned at the back of the unit (*see picture*).

The KOMMANDER's voltage outputs range from 0V to 8V. CV I and CV II outputs put out control voltage depending on the motion detected by the sensor. GATE I and GATE II will constantly put out the maximum voltage as soon as you move your hand above the sensor (see chapter TRIMMERS for adjusting that behavior). Note: If you move your hand above Sensor I, it will affect CV I and GATE I. Same goes for Sensor II.

WARRANTY

KOMA Elektronik warrants its products to be free of defects in materials / workmanship and conforming to specifications at the time of shipment for a period of two years from the date of purchase. During the warranty period, any defective products will be repaired or replaced, at KOMA Elektronik's option, on a return-to-factory basis. This warranty covers defects that KOMA Elektronik determines are no fault of the user.

SUPPORT

For support questions, please call +49(0)3091557028 (GER) (mon - fri 10AM - 6PM CET +1) or email to support@koma-elektronik.com.