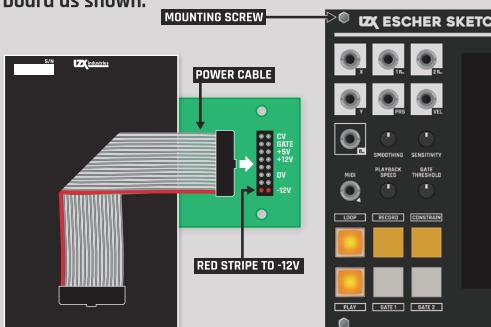


INSTALLATION

Power down the EuroRack case and unplug it from the wall. Connect the provided EuroRack power cable to your module and then to your EuroRack power bus board as shown.



CONNECTING VIDEO SYNC

Escher Sketch uses video sync to synchronize its outputs to the refresh rate of your video synthesis system. Connect your system's video sync generator module's Sync Out to one of the Sync In/Thru jacks on the rear of Escher Sketch using an RCA cable. If Escher Sketch is the last module in your sync chain, flip the rear switch to TERMINATE. If you are passing sync through to other modules, select LOOP THRU.

For standalone usage in audio systems, connection to video sync is not necessary.

Mount the module in your case using the mounting screws provided by your case's manufacturer.

ESCHER SKETCH SPECIFICATIONS

| | | | |
|---------|-----------|------------|-----------|
| WIDTH | 36HP | -12V | 180mA MAX |
| DEPTH | 50MM | +5V | N/A |
| +12V | 180mA MAX | VIDEO SYNC | |
| IN/THRU | | | |

5V/1V VOLTAGE SCALE AND MIDI

The voltage scale switch on the rear of the module can be set to 5V instead of 1V. This adapts the module's inputs and outputs for usage as a CV controller in EuroRack audio systems.

MIDI output is passed on TRS stereo 3.5mm jack. A switch on the module's rear can select the two pinout standards: Type A and Type B.

THANKS

We wish to thank the decade of the 1990s for allowing us to come of age in a culture with a predisposition towards optical illusions and animation, starlight from the Orion nebula, and the community of artists and explorers who supported our development cycle through your preorders.

Product Design by Lars Larsen & Jonah Lange
Illustrations by Dave Larsen
LZXOESURS
First Printing, Dec 2018
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USING THE TOUCHPANEL

Escher Sketch uses a classic resistive touchpanel in order to replicate the feeling of video painting devices and early trackpads from the 1980s through the 1990s. A point is registered when enough pressure is applied to the touchpanel surface, either by a finger tip or using a touchpanel stylus with a hard or spring loaded nib. The included stylus has a fixed hard nib, but we encourage you to explore other stylus options to find what suits you best as an artist.

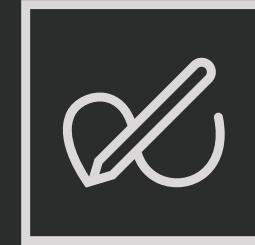
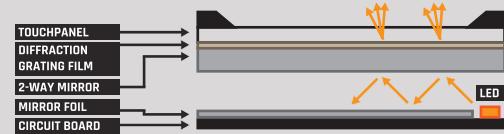
UPDATING THE FIRMWARE

Firmware may be updated via the frontpanel USB jack and the included Mini USB B to USB A cable. Download the firmware and follow the instructions accessible at: <https://www.lzxindustries.net/eschersketch>

HOW THE INFINITY ILLUSION WORKS

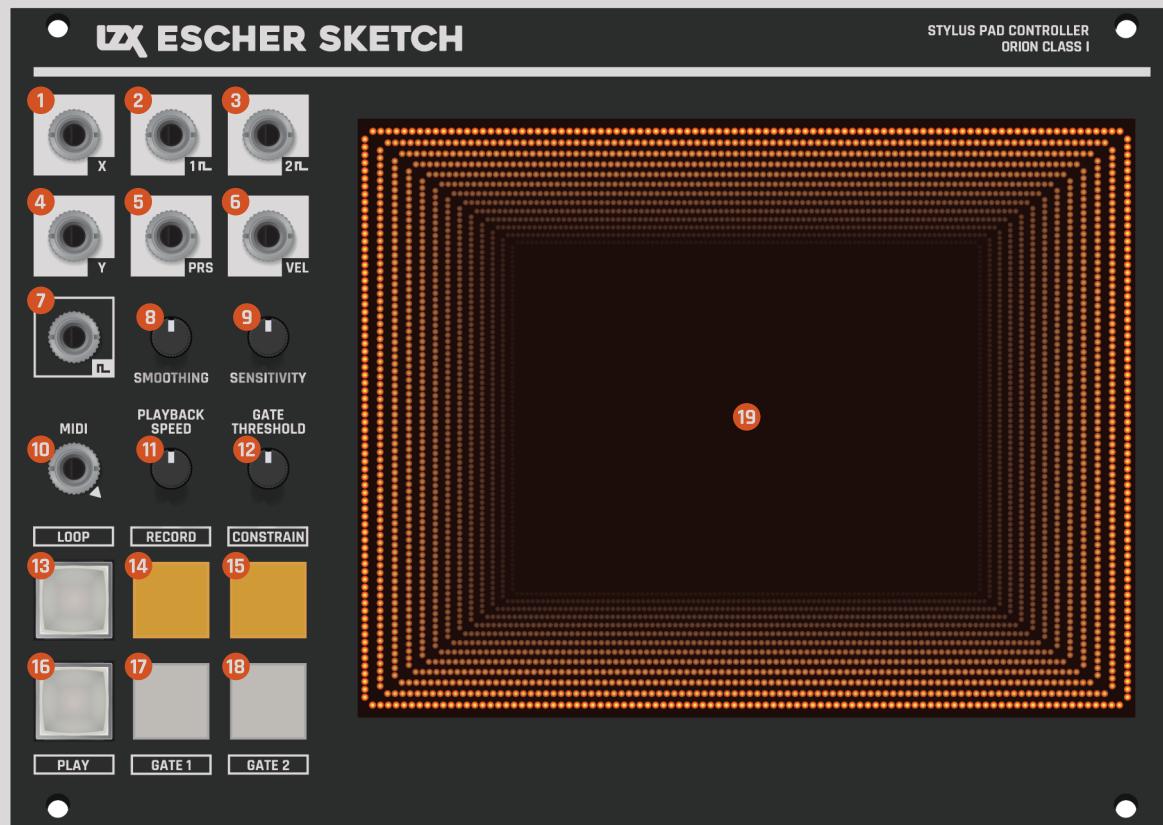
Escher Sketch's touchpanel sits atop an "infinity mirror" optical illusion created with over 300 surface mounted orange LEDs, reflective mirror foil, 2-way acrylic mirror glass, a 3D printed frame, and diffraction grating film.

The light from the LEDs bounces between the two mirrors and then passes thru the diffraction grating.



ESCHER SKETCH

USER REFERENCE



- | | | | | |
|---------------------|----------------------------|----------------------------------|----------------------------|-------------------------|
| 1 X OUT | 5 PRESSURE OUT | 9 SENSITIVITY CONTROL | 13 LOOP BUTTON | 17 GATE 1 BUTTON |
| 2 GATE 1 OUT | 6 VELOCITY OUT | 10 MIDI OUT | 14 RECORD BUTTON | 18 GATE 2 BUTTON |
| 3 GATE 2 OUT | 7 GATE/trigger IN | 11 PLAYBACK SPEED CONTROL | 15 CONSTRAIN BUTTON | 19 TOUCH PANEL |
| 4 Y OUT | 8 SMOOTHING CONTROL | 12 GATE THRESHOLD CONTROL | 16 PLAY BUTTON | |

USER NOTES