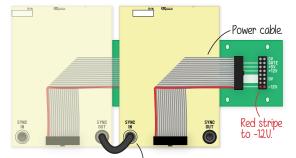
INSTALLATION

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. Use an RCA cable to connect video sync from your system's video synchronization source to the sync input jack as shown.*



RCA cable connects sync output from system's video sync generator (or daisy chained module) to sync input on rear of module.

Mounting screw. _ 🔎

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

Navigator uses its connection to video sync to ensure the update of the rotation angle occurs only at the beginning of each video frame. Navigator will function without this connection, in the case that the user is not using this module for video synthesis.



NAVIGATOR SPECIFICATIONS

FORMAT 3U EuroRack Synth Module

 WIDTH
 DEPTH

 16HP
 45mm

MAX POWER DRAW +12V 130mA -12V 100mA +5V N/A

OUTPUT LEVELS 0-1V

vc control range 0-1V

MAX INPUT VOLTAGE +/-12V

100K ohms

OUTPUT RESISTANCE 499 ohms



MADE IN PORTLAND, OR USA

TIPS & TECHNIQUES

- You aren't limited to Horizontal and Vertical ramps! Feed any two related or unrelated signals to the Horizontal and Vertical inputs, like 2 camera feeds pointed at the same object or 2 different waveforms from the same oscillator.
- Navigator makes a great modulation source for more traditional oscillator based pattern synthesis patches.
- Try VC position based feedback!

YOUR NEXT MODULE?





Since our early days of development, we've put a lot of thought into what a voice, in the monophonic and polyphonic sense, would look like, designed for a video synthesizer. Navigator and Shapechanger together form our vision of this design goal.

LZX-NV-URC Written by Lars Larsen Illustrated by Dave Larsen First Printing, Aug 2017 ©2017 LZX Industries LLC

NAVIGATOR

USER REFERENCE CARD







CONTROLS & CONNECTIONS

_		ROTATIO	N	_	X POSITION	
2		Degrees	360° X8	0 \odot	X Anchor	+/-1
3	9	Spin	ON OFF	6 0	X Position	+/-1
4		Direction cw	CW+CCW	9 0	VC level	+/-
Ď	0	Angle/Speed	0-360°	13	VC coupling	AC DO
10	•	VC level	+/-19	18 🔘	VC input	0-1V F
1		VC coupling	AC DC	23 🚥	Mode Position	N ANCHOR
19		VC input	0-1V FS	12	X Mirror	ON OFF
24)	(O)	Reset	r∟ 0.5V		Y POSIT	ION
27	0	Angle indicators		5 🔾	Y Anchor	+/-1
		INPUTS		80	Y Position	+/-1
7	(Horizontal	0-1V FS	0 0	VC level	+/- 2
2	(O)	Vertical	0-1V FS	15	VC coupling	AC DO
_		OUTPUT	s	20 🔘	VC input	0-1V F
2	0	Horizontal	1V DC	25 🚥	Mode Position	N ANCHOR
2 6	0	Vertical	1V DC	16	Y Mirror	ON OFF
				_		

FIRST STEPS

- Set all controls and switches to the default settings shown on the frontpanel illustration to the left.
- Set Ramp mode switches on Visual Cortex to their center positions. Patch the Horizontal and Vertical ramp outputs from Visual Cortex into the Horizontal and Vertical inputs on Navigator.
- View the Horizontal output using your video output module.
- Play with the X Position, Y Position, and Rotation controls to view what they do to the output signal.
- Play with the X and Y Mirror and Rotation mode switches.
- If you have the Shapechanger module, continue this exercise with the First Steps in the Shapechanger User Reference Card.

SIGNAL PATH BLOCK DIAGRAM

