GEODESICS

A modular collection for VCV Rack by Pyer & Marc Boulé

User Manual - version 0.6.6

GEODESICS

ENTROPIA
thermodynamic microstate sequencer

AUDIO CV EXT SIGNAL RANDOM FIXED CV ENERGY PLANCK CONSTANT MICROSTATE UNIFORM ADD SWITCH MACROSTATE MODE CLOCK UNCERTAIN CLOCK LENGTH RUN MAGNETIC CLOCK ON RUN RESET

BLACKHOLES
gravitational attenumixset

SPAGHETTIFICATION WORMHOLE GRAVITY SV ADJ

PULSARS
neutron powered crossfader

COSMIC VOID REVERSE SPACETIME SUPERNOVA UNI BI MC2

BRANES
colliding sample and hold

SIG 0/1.0 LFO

IONS
atomic dual cv sequencer

QUANTUM LEAP CONSTANT PLANCK ENERGY LOCAL CLOCK STATE GLOBAL CLOCK PROBABILITY UNCERTAINTY RUN MAGNETIC CLOCK ON RUN RESET

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PHILOSOPHY

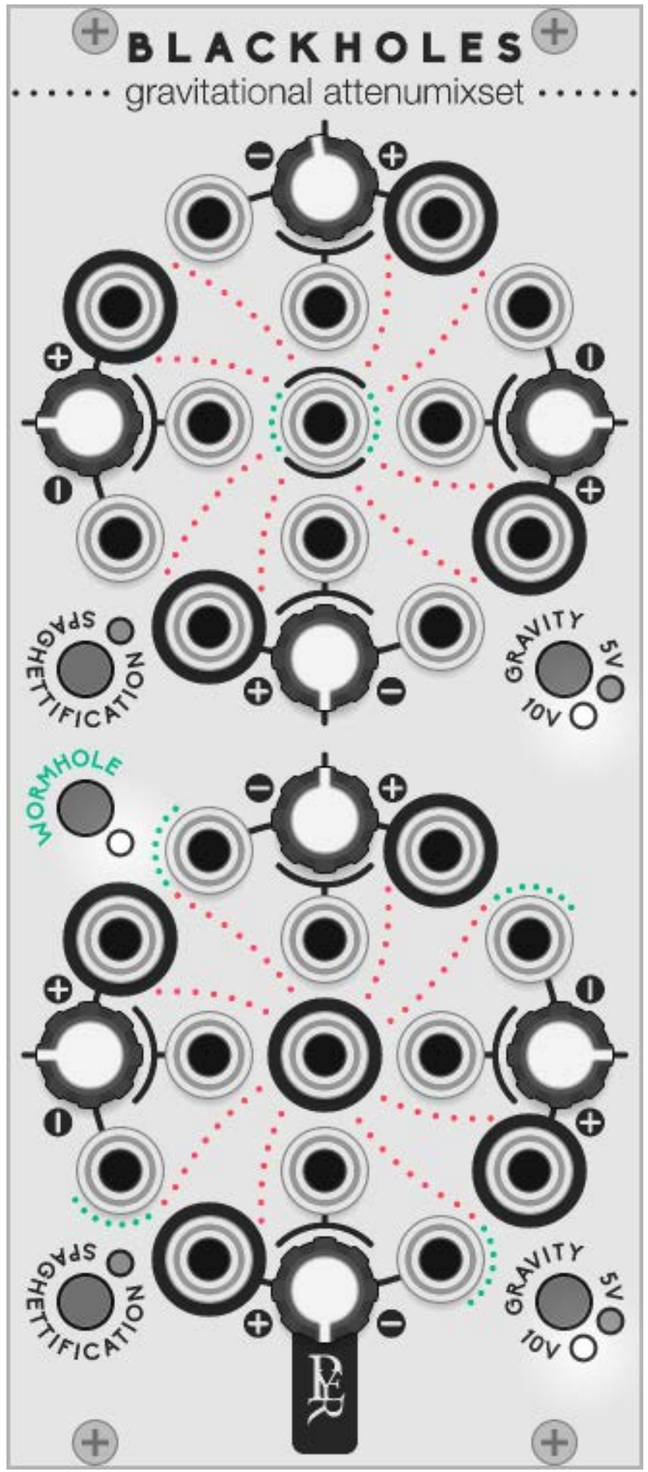
science inspires music

The modules are loosely inspired by astronomic events and physical theories. The goal is just to see how science can inspire us to create new music.

Every module is feasible in the hardware world, interacting elements are only knobs, buttons, LEDs and serigraphy. there is no right click option other than skin change.

For a more immersive concept, every parameter displayed uses terms related to the scientific phenomenon that inspires the module. It might be confusing at first but that's why this manual is here. As every unusual musical instrument, a learning curve is required to make the best of it.

While a lot of advanced science is involved, the final purpose is to create musical and creative instruments, effective and friendly to use.

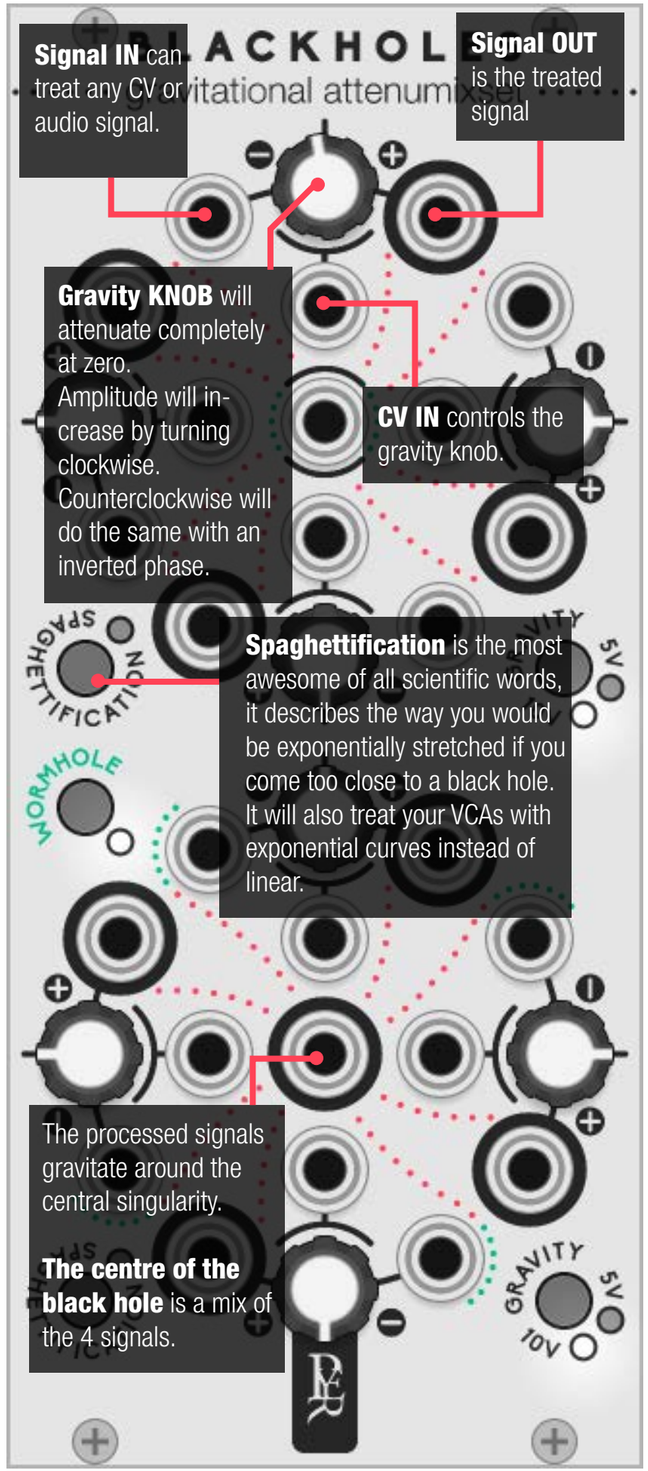


BLACK HOLES

gravitational voltage controlled attenumixset

A black whole attracts everything that gravitates around its centre, even audio and CV signals…

BLACK HOLES is 8 vcas in two groups of 4, it's also two mixers with 4 channels each.



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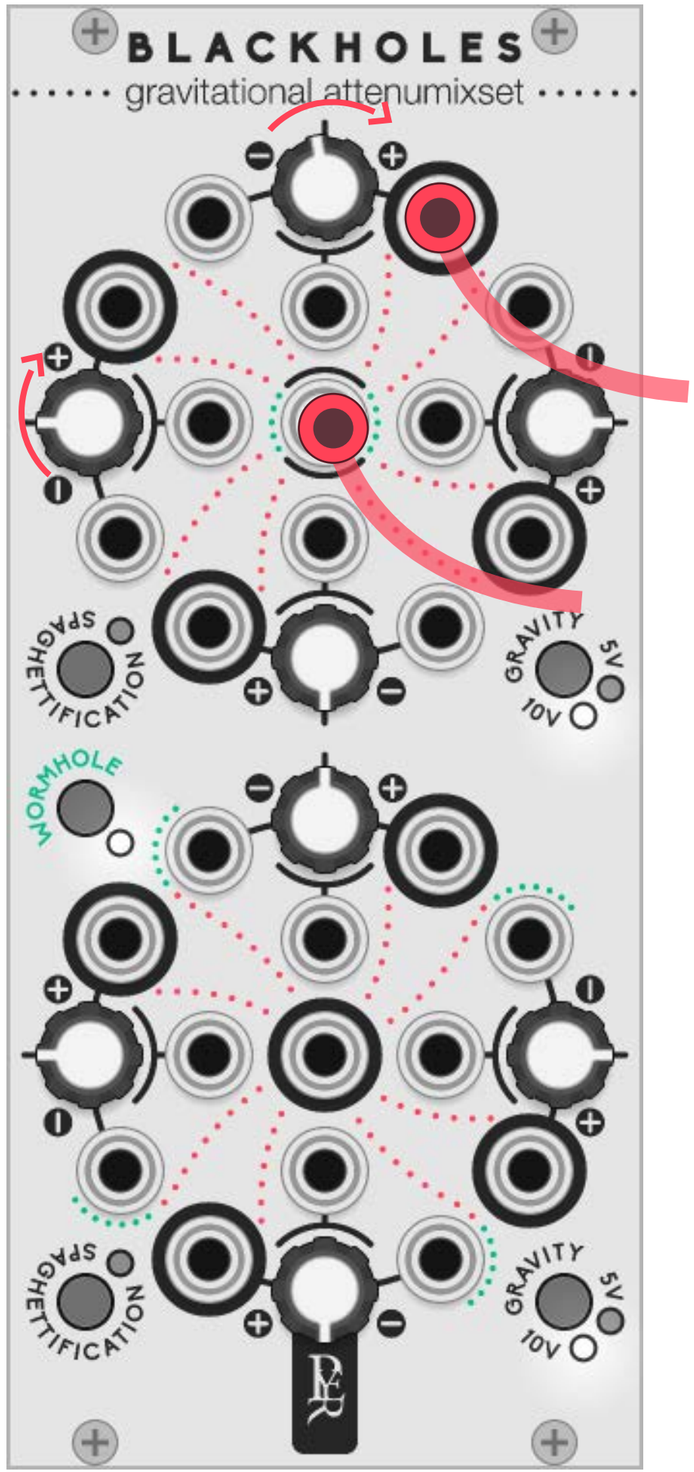


BLACK HOLES

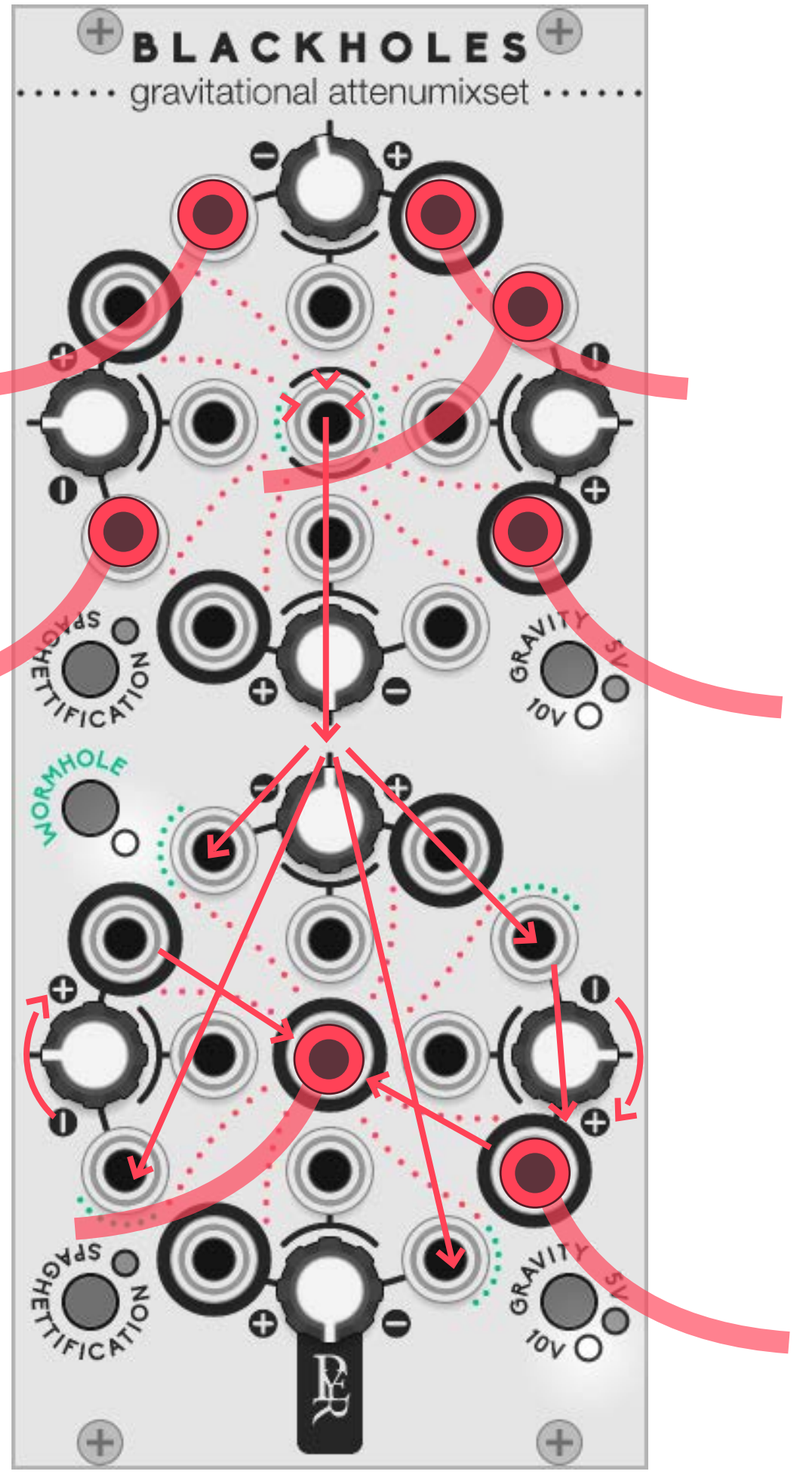
gravitational voltage controlled attenumixset

Mass control

When no input is plugged in, the knob acts to the output as a fixed CV generator. The centre still acts as a mixer. The values of the gravity knobs are all summed up in the mixer.

Gravity control

The modulation input can be set to -/+10 volts for enveloppe and gate sources, or -/+5 volts for LFO and VCO sources.



BLACK HOLES

gravitational voltage controlled attenumixset

The Worm hole

No one knows what is inside a black hole. Some people think there could be a worm hole to a “white hole” that ejects everything the black hole has absorbed...

Black Hole 2 can become a white hole. The mixed signal from Black Hole 1 travels through the wormhole and feed the unused inputs of Black Hole 2. It then becomes a 1x4 multiplier. The signal can be treated differently by each output. The worm hole can be closed if needed with the button.

The mass control combined with the worm hole trick will manage both amp and offset of an external signal.

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Geodesics has been created in July 2018 by **Pierre Collard** (industrial and graphic designer based in Brussels) and **Marc Boulé** (developer and creator of Impromptu Modular based in Montréal).

Just like many projects within VCV Rack, Geodesics is also a community effort and it would not have been possible without the help of many users, composers and developers participating one way or another to enhance the quality of the project.

Amoung them we would like to adress a special thank to those who helped us in the beta testing phases, who made toturials, who proposed their help in any way and those who brought the collection to life with some great pieces of music: **Omri Cohen, Georg Carlson, Xavier Belmont, Steve Baker, Marc Demers, Adi Quinn, Ben De Groot, Latif Karoumi, Espen Storo, Synthikat, Dave Phillis, Carbonic Acid**, **Martin Luders**, **Ghalebor, Stephen Askew, Lars Bjerregaard, Richard Squires, Lorenzo Fornaciari, Adi Quinn, NO rchestra, Poxbox23** and **Ananda Bhishma.**

Geodesics links
www.pyer.be/geodesics
vcvrack.com/plugins.html#Geodesics
github.com/MarcBoule/Geodesics

Creations from composers using Geodesics:
https://www.youtube.com/playlist?list=PLEh-5QLxa-BlqLl9rBcncUTFm2Lk-ZMgvZ

Tutorials on Geodesics by Omri Cohen:
https://www.youtube.com/playlist?list=PLEh-5QLxa-Blr4dsurkkwUehFsNl7T_Jv-

Marc's work links
github.com/MarcBoule/ImpromptuModular

Pierre's work links
www.pyer.be

Coded and released by Marc Boulé - Concept and visuals by Pierre Collard