GEODESICS

A modular collection for VCV Rack by Pyer & Marc Boulé



User Manual







TORUS

bi-dimensional multimixer

A torus is a 2-dimensional surface closed on itself. Some believe it could be the shape of the universe.

TORUS mixes and attenuates the incoming signal in different ways depending on the distance between the input and output jack.

Torus is a small module that can be many things: up to 6 4-channel adjustable mixers, 3 multipliers, 7 unity mixes with 4 channels, 7 attenuators ... and all at the same time.







Torus works over a simple concept: the incoming signals are spread and mixed over the different outputs. Each output jack will produce a different mix depending on the proximity of the input jacks. **Constant mode** gives back 100% of the original signal on each output. When mixed, the two signals are added together.



Decay mode: the level of the original signal gets faded away along the outputs. When mixed, the two signals are cross-fading together with different blends depending on the proximity of each input. As there are a lot of jacks in Torus, it might be easier to split it in two parts for a better understanding.



Constant mode: Multiplier

Decay mode: attenuator

Constant mode: Unity adder

Decay mode: Cross fader



To complete the Torus, another set of input is also connected to the output system.

The result of left and right structure is added in each output.





nels to another input, sub-mixes can be created to achieve up to 13 channel mix in one module.



Low/High pass mode

Torus has a third mode dedicated to filtering. The filters can be set in right click to 6db or 12db

For an incoming signal, any lower output will apply a low pass, and any upper output will apply a high pass.

The more distanced output will have a shorter passing range.

Unlike the other modes, the passing frequencies are not chosen on mathematical ratios, but on an arbitrary way, inspired by some hardware equalisers sweet spots.





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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.

Among them we would like to address a special thank to those who helped us in the beta testing phases, who made tutorials, 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

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Tutorials on Geodesics by Omri Cohen: https://www.youtube.com/playlist?list=PLEh-5QLxa-Blr4dsurkkwUehFsNI7T 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



Creations from composers using Geodesics:

https://www.youtube.com/playlist?list=PLEh-5QLxa-