

Media servers

HippotizerV4+



World-class, market-leading solutions for real-time media playback and 3D mapping

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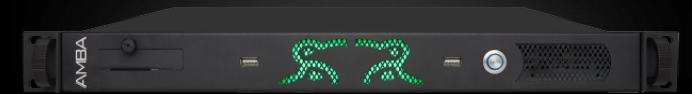
Green Hippo

Green Hippo has been developing high performance video processing software for over 15 years. Building quality applications for the entertainment industries have been our focus...



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HIPPOTIZER
TIERRA



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HIPPOTIZER

TIERRA



Unlimited Mixes

Be completely flexible. Hippotizer Tierra+ has unlimited mixes with 16 layers each which can all be assigned to one or many outputs.

NOTCH

39,816 Notchmarks

With an optional Notch Playback License, create interactive and generative content and live video effects in a powerful, easy and stable workflow. Export and playback directly in Hippotizer.

8K

Uncompressed Playback

With the latest generation of computer technology, Hippotizer Tierra+ offers 8K and 4K @60 uncompressed playback

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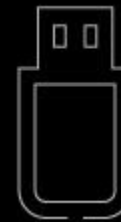


TIERRA+ (DP)

Connectivity



Outputs	4x DP 1.2
Max Resolution DP	4096 x 2160
Supports splitters	Yes
Genlock	Yes
EDID Emulation	Yes
HD Outs (With splitter)	16
ZooKeeper Outs	2x DVI



Software

Mixes	Unlimited
Layers per mix	16
Uncompressed playback	Supported



Performance

Notchmarks	39816
Notch	Optional playback license



Options

Input Cards	2
Dual 10GB	Standard
SMPTE in (LTC) Optional	

Physical

Size RU	4U
Weight	27Kg
Power Consumption	1200VA



MONTANE+ RTX

MONTANE+ RTX (DP)

Connectivity

Outputs	2x DP 1.2
Max Resolution DP	4096 x 2160
Supports splitters	Yes
Genlock	No
EDID Emulation	No
HD Outs (With splitter)	8
ZooKeeper Outs	2x DVI



Software

Mixes	Unlimited
Layers per mix	16
Uncompressed playback	Supported

Performance

Notchmarks	37140
Notch playback license	2 year licence included



Options

Input Cards	2
Dual 10GB	Optional
SMPTE in (LTC) Optional	

Physical

Size RU	4U
Weight	27Kg
Power Consumption	800VA



TAIGA+ (DP)

Connectivity

Outputs	6x DP 1.2
Max Resolution DP	4096 x 2160
Supports splitters	Yes
Genlock	Yes
EDID Emulation	Software
HD Outs (With splitter)	24
ZooKeeper Outs	2x DVI



Software

Mixes	Unlimited
Layers per mix	16
Uncompressed playback	Supported

Performance

Notchmarks	19541
Notch playback license	10 Free Fx



Options

Input Cards	2
Dual 10GB	Standard
SMPTE in (LTC) Optional	




Physical

Size RU	4U
Weight	27Kg
Power Consumption	1100VA



BOREAL+ (DP)

Connectivity

	Outputs	4x DP 1.2
	Max Resolution DP	4096 x 2160
	Supports splitters	Yes
	Genlock	Yes
	EDID Emulation	Software
	HD Outs (With splitter)	16
	ZooKeeper Outs	2x DVI



Software

Mixes	16
Layers per mix	16
Uncompressed playback	Supported



Performance

Notchmarks	15000
Notch playback license	10 Free Fx



Options

Input Cards	2
Dual 10GB	Optional
SMPTE in (LTC) Optional	

Physical

Size RU	4U
Weight	27Kg
Power Consumption	800VA



KARST+ (DP)

Connectivity

Outputs	2x DP 1.2
Max Resolution DP	4096 x 2160
Supports splitters	Yes
Genlock	Yes
EDID Emulation	Software
HD Outs (With splitter)	8
ZooKeeper Outs	1x DVI, 1xDP



Software

Mixes	12
Layers per mix	16
Uncompressed playback	No

Performance

Notchmarks	12500
Notch playback license	10 Free Fx



Options

Input Cards	1
Dual 10GB	Optional
SMPTE in (LTC) Optional	

Physical

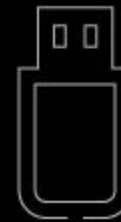
Size RU	2U
Weight	16Kg
Power Consumption	500VA



AMBA+ (DP)

Connectivity

Outputs	1x DP 1.2
Max Resolution DP	4096 x 2160
Supports splitters	Yes
Genlock	No
EDID Emulation	No
HD Outs (With splitter)	4
ZooKeeper Outs	2x DVI



Software

Mixes	4
Layers per mix	16
Uncompressed playback	No

Performance

Notchmarks	3700
Notch playback license	10 Free Fx



Options

Input Cards	1
Dual 10GB	Optional
SMPTE in (LTC) Optional	

Physical

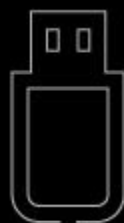
Size RU	1U
Weight	8Kg
Power Consumption	300VA



PREP

Connectivity

_____	Outputs	Unlimited (Watermarked)
_____	Max Resolution DP	--
_____	Supports splitters	--
	Genlock	--
	EDID Emulation	--
	HD Outs (With splitter)	--
	ZooKeeper Outs	--



Software

Mixes	Unlimited
Layers per mix	16
Uncompressed playback	Hardware dependant



Performance

Notchmarks	Hardware dependant
Notch playback license	10 Free Fx



Hippotizer PREP, the complete pre-programming tool enabling you to encode, pre-program and visualise with the award winning media server software. Hippotizer PREP will allow you to visualise the possibilities with Hippotizer. With unlimited watermarked outputs, pre-program projects of any size and plug and play into your Hippotizer+ hardware for high performance playback.



Hippotizer PLAY

Hippotizer PLAY



Hippotizer™ PLAY is a free to download, demo version of the Hippotizer™ V4 software. To download, please register* below:



<https://www.green-hippo.com/hippotizer-media-servers/play-licensing/>



HippoNet



Components



Apps



HippoNet

Control multiple units from a single ZooKeeper with HippoNet

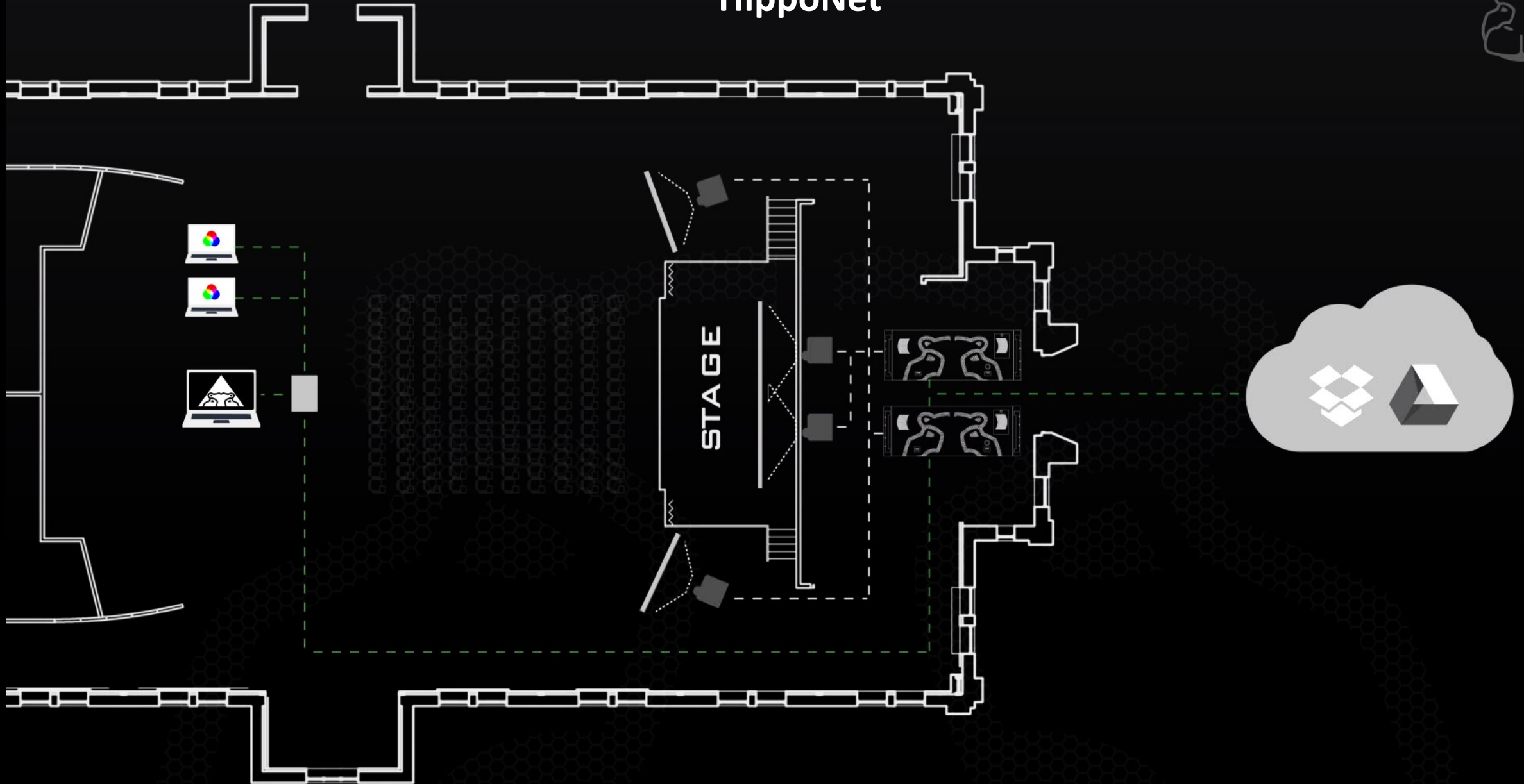
The heart of Hippotizer™ is HippoNet, the networking protocol which connects all Hippotizer machines together so that one ZooKeeper can control all the networked systems at once. HippoNet distributes timecode, media and playback synchronisation between systems to effortlessly control even the largest systems. Hippotizer supports direct DMX control through Art-Net or MA-Net as well as MIDI, OSC and TCP commands.

Hippotizer V4 supports CTP thumbnail exchange and streaming for easier control from lighting desks.

Playback can be synchronised to SMPTE or MIDI Timecode, or Hippotizer can generate internal timecode based on system time or a user defined start time.



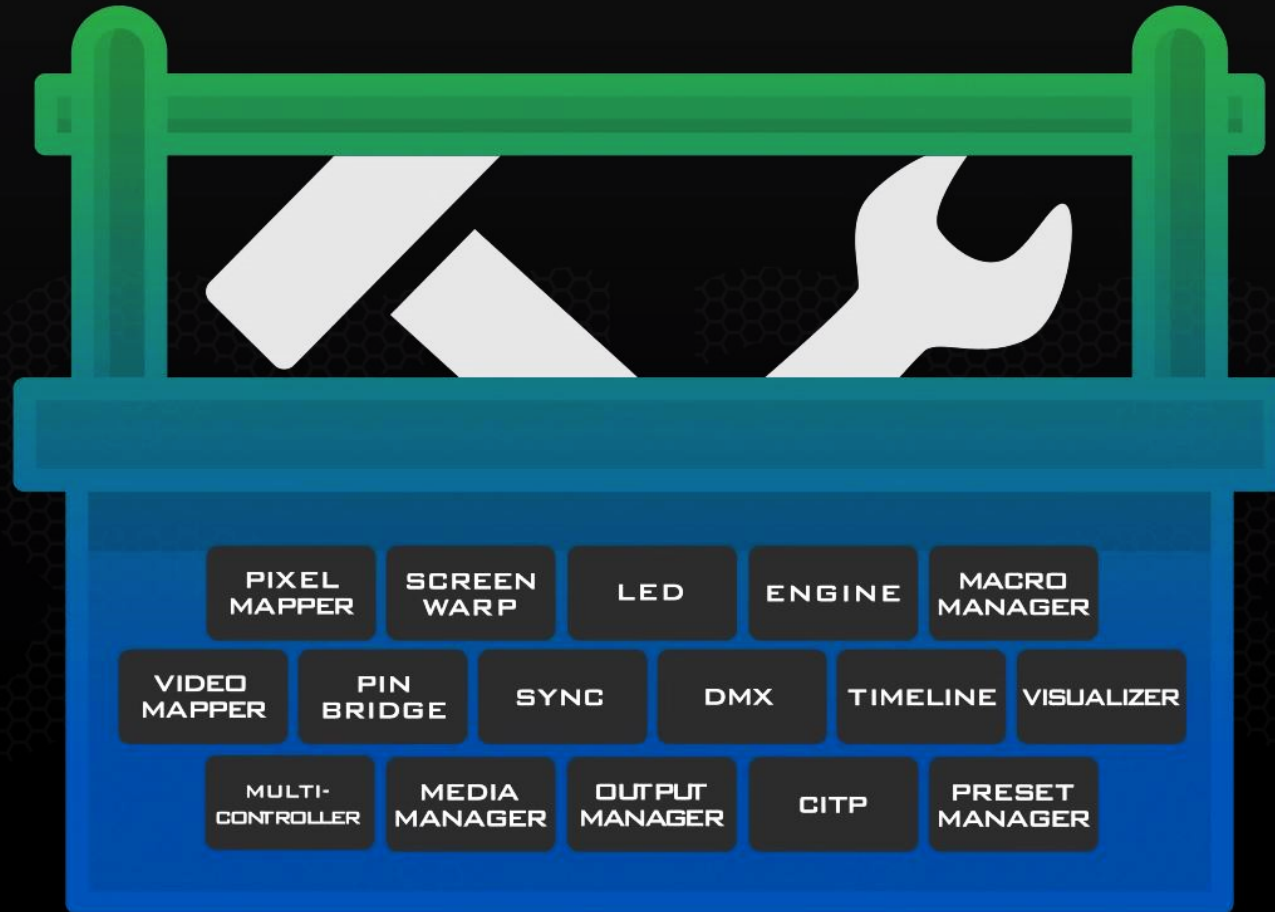
HippoNet



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Components in Hippotizer



Components in Hippotizer



PIXEL
MAPPER

SCREEN
WARP

LED

ENGINE

MACRO
MANAGER

VIDEO
MAPPER

PIN
BRIDGE

DMX

SYNC

TIMELINE

VISUALIZER

MULTI-
CONTROLLER

MEDIA
MANAGER

OUTPUT
MANAGER

CITP

PRESET
MANAGER



Components in Hippotizer



PIXEL
MAPPER

SCREEN
WARP

LED

ENGINE

MACRO
MANAGER

VIDEO
MAPPER

PIN
BRIDGE

DMX

SYNC

TIMELINE

VISUALIZER

MULTI-
CONTROLLER

MEDIA
MANAGER

OUTPUT
MANAGER

CITP

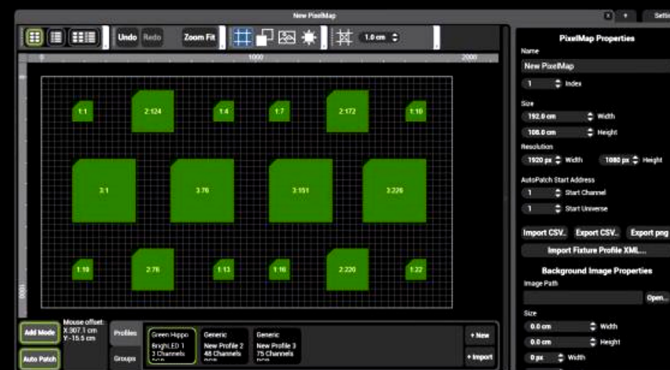
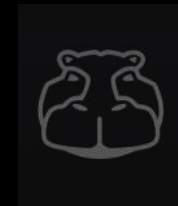
PRESET
MANAGER



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Components in Hippotizer



PIXEL
MAPPER

SCREEN
WARP

LED

ENGINE

MACRO
MANAGER

VIDEO
MAPPER

PIN
BRIDGE

DMX

SYNC

TIMELINE

VISUALIZER

MULTI-
CONTROLLER

MEDIA
MANAGER

OUTPUT
MANAGER

CITP

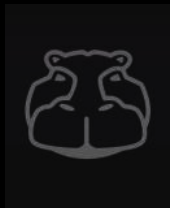
PRESET
MANAGER



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Components in Hippotizer



The screenshot displays the Hippotizer software interface, titled "ZooKeeper on AMBA-TESTING". It features several panels: "Control Sources" with a "New PosiStageNet Reader Control Source", "Control Targets", "External Input 1" and "External Input 2" sections, and a "Timeline" section with "Add Tracks" and "Cleanup" options. A large digital display shows "Current Time for Ext1" as "16:46:14.430". The interface includes various icons for navigation and control.

- PIXEL MAPPER
- SCREEN WARP
- LED
- ENGINE
- MACRO MANAGER
- VIDEO MAPPER
- PIN BRIDGE
- DMX
- SYNC
- TIMELINE
- VISUALIZER
- MULTI-CONTROLLER
- MEDIA MANAGER
- OUTPUT MANAGER
- CITP
- PRESET MANAGER



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Components in Hippotizer



The screenshot displays the Hippotizer software interface, titled "ZooKeeper on AMBA-TESTING". It features several panels: "Control Sources" with a "PostStageNet Reader Control Source", "Control Targets", "Timeline" with a track list and a visualizer, "External Input 1 Generator" and "External Input 2 Midi" with time displays showing "16:46:14.430", and "Sync Bus Link" settings. The interface is dark-themed with green accents.

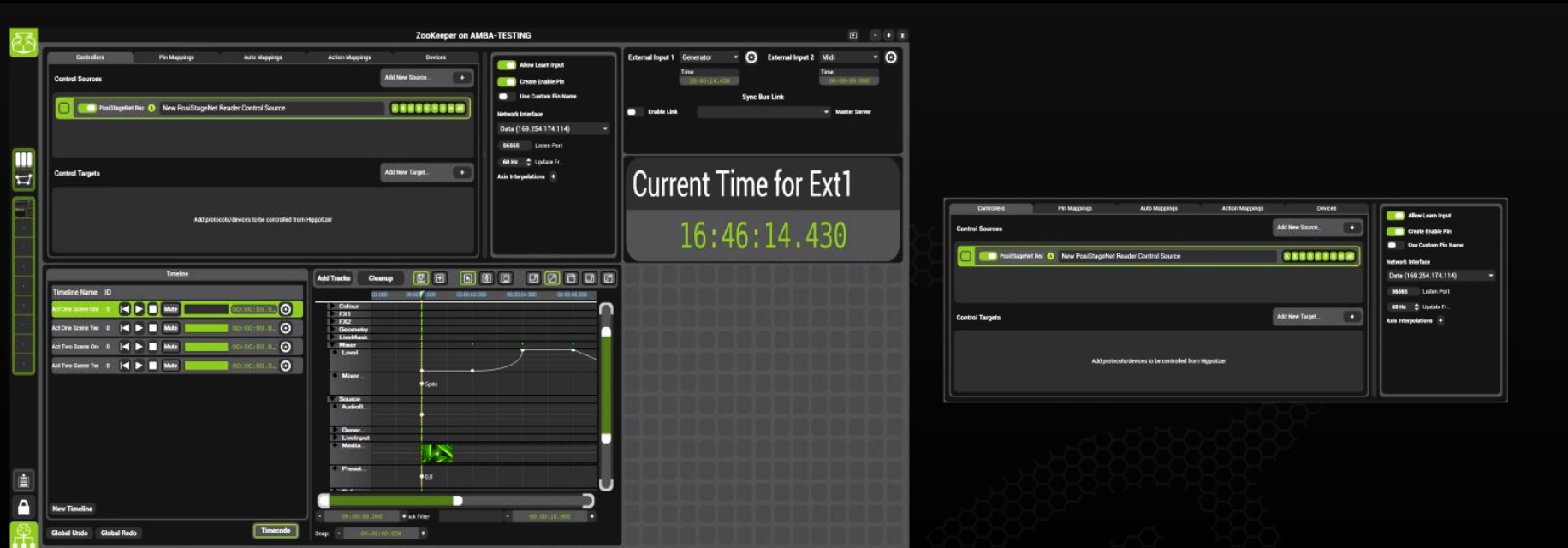
- PIXEL MAPPER
- SCREEN WARP
- LED
- ENGINE
- MACRO MANAGER
- VIDEO MAPPER
- PIN BRIDGE
- DMX
- SYNC
- TIMELINE
- VISUALIZER
- MULTI-CONTROLLER
- MEDIA MANAGER
- OUTPUT MANAGER
- CITP
- PRESET MANAGER



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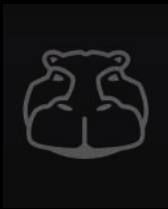
Components in Hippotizer



- PIXEL MAPPER
- SCREEN WARP
- LED
- ENGINE
- MACRO MANAGER
- VIDEO MAPPER
- PIN BRIDGE
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- SYNC
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- MULTI-CONTROLLER
- MEDIA MANAGER
- OUTPUT MANAGER
- CITP
- PRESET MANAGER



Components in Hippotizer



The screenshot displays the Hippotizer ZooKeeper interface. On the left is a sidebar with a file tree for 'HippoTrainer', including folders like 'ArtificiallyAwake', 'ChromaForm', 'DigiGobos', 'Green Hippo', and 'LightRhythmVisuals'. Below this are sections for 'AMBA-TESTER', 'DEV-BOREAL', and 'EngineHost'. The main area shows a grid of media thumbnails with names such as 'sparksfall_00', 'glitter_03_00', 'mirrorballs sv', etc. At the bottom, there is a track layout with numbered slots (0-25) and various icons representing different media or settings.



Components in Hippotizer



The screenshot displays the Hippotizer application interface. On the left is a sidebar with a file tree containing folders like 'HippoTrainer', 'AMBA-TESTER', 'DEV-BOREAL', and 'EngineHost'. The main window is titled 'HippoTrainer' and shows 'Strata Disk Space: 135 GB Free of 280 GB'. It features several tabs: 'Encoding', 'Sync', 'WatchFolder', and 'Strata'. The 'Sync' tab is active, showing 'Source MediaManager Synchronization Settings' with options for synchronizing media, adding new media, and deleting media. Below this are 'Target MediaManagers' including 'EngineHost - MediaManager', 'DEV-BOREAL - MediaManager', and 'AMBA-TESTER - MediaManager'. A 'Sync Now' button is visible. At the bottom, there is a media grid with 12 columns and 8 rows of thumbnails, with the first row containing thumbnails for 'adlight_1_000...', 'arches_00001', 'obform_00001', 'raindrops_00...', 'flashes_00000', and 'ring flare_000...'. Above the grid is a toolbar with various icons for media management.



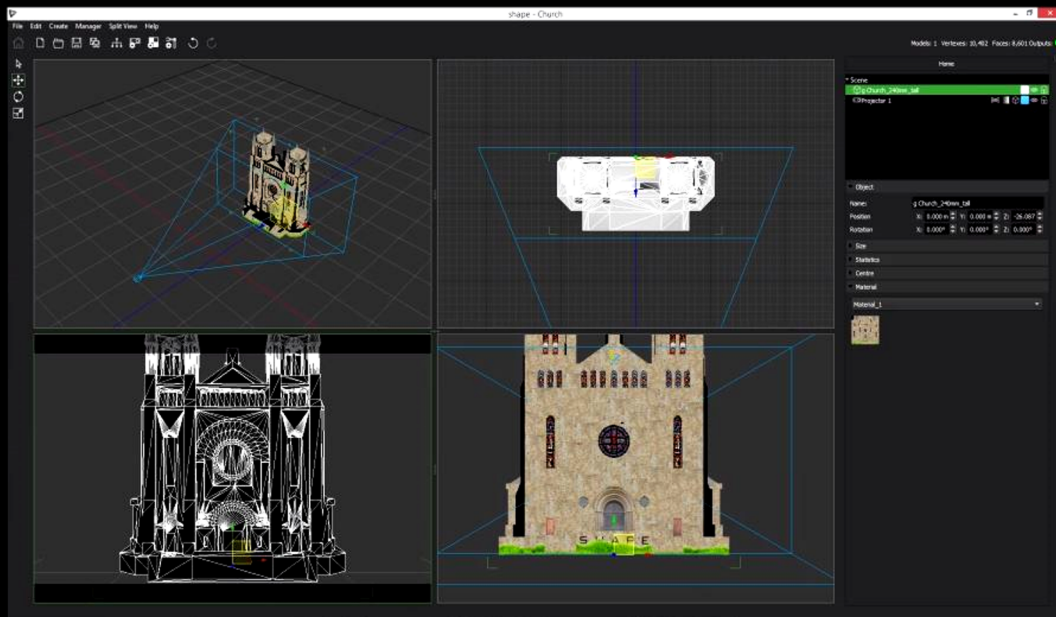
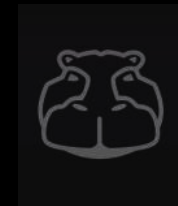
Components in Hippotizer



Hippotizer is based around a series of plugins called **components** each adding functionality. Managing components is an important part of setting up the Hippotizer system.

- [Beatbridge](#)
 - Triggers parameters of Hippotizer in time with an audio source.
- [CITP](#)
 - Enables the transfer of thumbnails and previews between Hippotizer and lighting desks or visualisation software.
- [DMX2](#)
 - Enables Hippotizer to be controlled from DMX Lightning desks over ArtNet, MA-Net or sACN.
- [Engine](#)
 - **Runs by default** renders the video output.
- [HippoSnapper](#)
 - Allows a still image to be taken of a mix or layer and saved to the media map.
- [LED & Fan Component](#)
 - **Runs by default:** operates the LED indicator lights on the front of Hippotizer systems and cooling fans.
- [MacroManager](#)
 - Enables scripts (or Macros) to be written to customise Hippotizer functionality.
- [MediaManager](#)
 - **Runs by default:** organizes and encodes media into Hippotizer.
- [MultiController](#)
 - Sends and receives data from external controllers such as MIDI and TCP devices.
- [Output Manager](#)
 - **Runs by default:** configures the number and resolution of mixes and places outputs on displays.
- [PinBridge](#)
 - PinBridge allows functions to be grouped together and controlled by a single pin.
- [PixelMapperV4](#)
 - Allows Hippotizer to control lights over ArtNet, KiNet or sACN.
- [Preset Manager](#)
 - **Runs by default** saves and recalls sets of pin values for Layers, Mixes and Viewports.
- [ScreenWarp Manager](#)
 - Creates warps and blends for use on viewport.
- [SHAPE](#)
 - SHAPE is the 3rd dimension of Hippotizer to enable projection mapping, object tracking and advanced projection tools.
- [Sync Manager](#)
 - Manages time synchronisation between systems including receiving timecode from external devices. (LTC and Midi Timecode)
- [Timeline](#)
 - Allows the playback of sequences of values for show recall from video-editor based timelines.
- [VideoMapper](#)
 - Transposes pixels from input to output textures for the mapping of complex output configurations. Frequently used for mapping video tiles.

Shape in Hippotizer



PIXEL
MAPPER

SCREEN
WARP

LED

ENGINE

MACRO
MANAGER

VIDEO
MAPPER

PIN
BRIDGE

DMX

SYNC

TIMELINE

VISUALIZER

MULTI-
CONTROLLER

MEDIA
MANAGER

OUTPUT
MANAGER

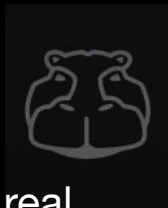
CITP

PRESET
MANAGER



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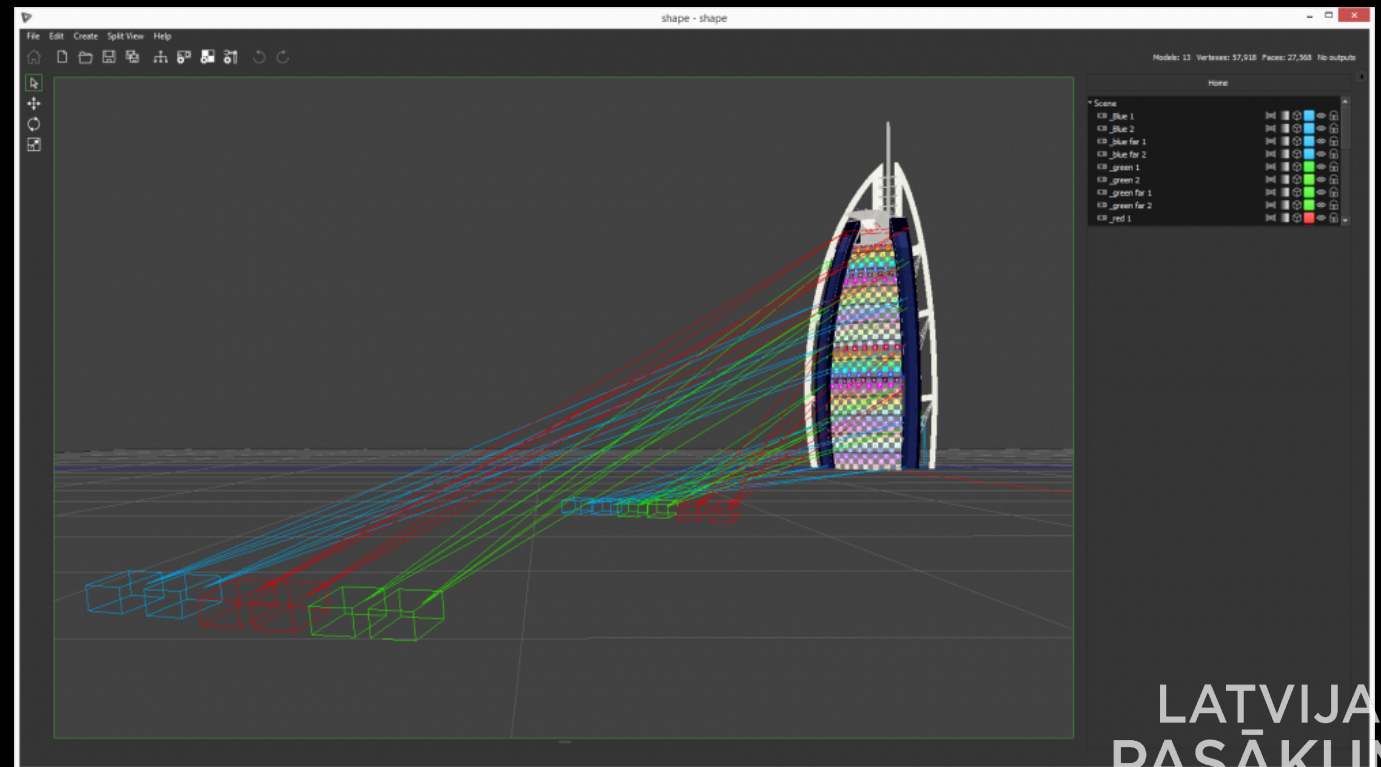
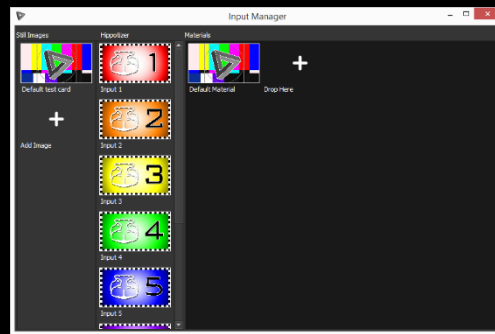
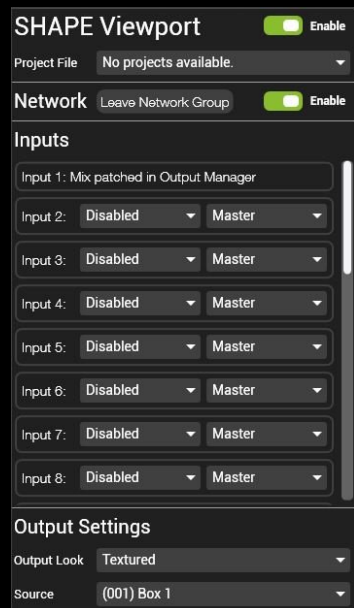
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What is shape?

SHAPE is a software application to assist with projector setups and 3D mapping of video onto complex objects in real time. SHAPE enables the user to import a model and apply video from a Hippotizer V4 machine to the model. SHAPE allows you to edit model meshes and is able to assist with aligning, blending, masking and warping the projector(s).

SHAPE is comprised of two parts: the SHAPE application that is free to download from Green Hippo, and the Hippotizer V4 system running on a Green Hippo media server. SHAPE communicates via the network to Hippotizer V4 machines to allow real time manipulation. Once the model is configured, all settings are saved to the Hippotizer which then handles all content play back; the SHAPE application is then no longer required.



HIPPOTIZER
VERSION V4.5



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Features Added in 4.5.0

- Added Object to Output to SHAPE
- Added camera targets to SHAPE
- Added Compositions to SHAPE
- Added Mix Modes for Texture Mappers to SHAPE
- Increased the number of Inputs of SHAPE Viewport from 8 to 24.
- Added Beatbridge Component
- Added NDI Source Management
- Added Free Form Fixtures to Pixelmapper
- Added Copy / Paste Functionality to Pixelmapper
- Added Notch Mix to Output Manager
- Added Audio Device Selection to Mix controls
- Added Media Ingest functions to Macromanager Mediamanager API
- Added Generic Automation source to Macromanager
- Added Support for Stream Deck XL
- Added Support for Dual HDMI 2.0 Capture Card
- Added ability to do math operation in number boxes throughout Zookeeper.



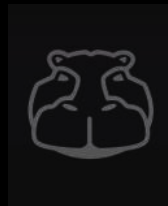
BeatBridge



The BeatBridge component triggers parameters of Hippotizer in time with an audio source.



Free Form Fixtures



Fixture Profile Properties

Name
New Profile

Manufacturer
Generic

Layout **Freeform**

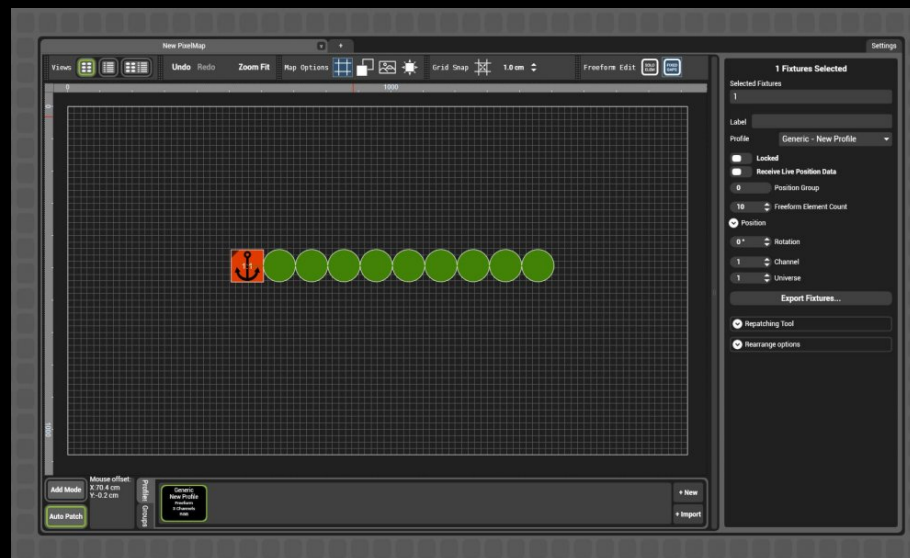
Element Size
10.00 Diameter

Element Spacing
10.00 Cm

Encoding 8-bit

Colour Space RGB

Export...



Free Form Fixtures allow for LED tape and other non-linear fixtures to be Pixel mapped.



Notch Mix



The Notch Mix is a mix type dedicated to Notch playback

A Notch Mix offers several benefits over the Notch implementation present on every layer:

8 Video inputs instead of 2 on layer

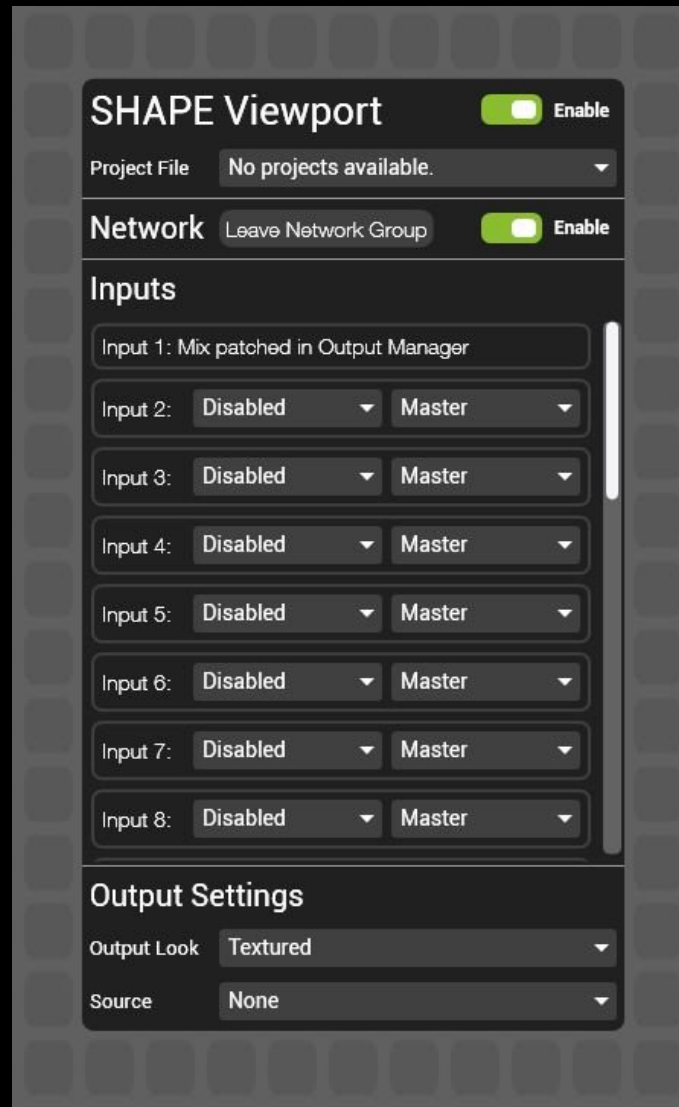
Notch on layer is limited to 2 texture inputs; the first is the layer itself while the second is set from a relay. Notch Mix has up to 8 texture inputs, each set from a relay so any mix or layer can be a source.

User definable parameter counts.

The number of parameters (text and value) are set from a text file and can be modified for the Notch Mix. Notch on layer is limited to 10 value and 2 text parameters.



SHAPE 3D Viewport



The 3D Viewport controls outputs from Hippotizer's 3D world; SHAPE



2D Viewport



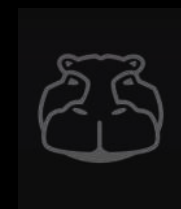
The screenshot displays the ZooKeeper software interface, titled "ZooKeeper on SKYNETMUNK". The interface is divided into several sections:

- Left Panel:** A vertical sidebar containing a "Collapse All" button and a list of viewports: SKYNETMUNK (Shape1), AMBA-0160 (Viewport1), DEVTB-WIN10 (Viewport1), and GHDT17 (Viewport1). A "Viewport Selector" is overlaid on the AMBA-0160 viewport.
- Top Section:** Features "Effects Engines" (two sets of sliders for "no Effect"), "Colour Controls" (a color picker), and "Warp Mix" (Warp Mix, Linear Blending, Radial Blending) settings.
- Middle Section:** Includes "Geometry / Keystone / Videomapper" (with a "Live Mask" overlay), "Warping and Blending" (Left, Right, Top, Bottom settings), and "PixelMapper" (No Map Selected, Visualization, Settings, NDI Send).
- Bottom Section:** A "Viewport Presets" grid with 28 slots (Bank 0 to Bank 9, and 1 to 27). Slot 1 is labeled "Preset 1".

Pixelmapper, NDI and a 2nd Effect engine has been added to 2D Viewports.



NDI Settings



Added NDI Source Management

ZooKeeper on SKYNETMUNK

SKYNETMUNK

Host Info and Components | Network Settings | Statistics and Diagnostics | Video Capture | NDI Settings

Collapse All

SKYNETMUNK

DESKTOP-V28DS9N

Master NDI Source List

DMX	Source Name	Source URL	Clear
0	None		Clear
1	Empty Slot		Clear
2	Empty Slot		Clear
3	Empty Slot		Clear
4	Empty Slot		Clear
5	Empty Slot		Clear
6	Empty Slot		Clear
7	Empty Slot		Clear
8	Empty Slot		Clear
9	Empty Slot		Clear
10	Empty Slot		Clear
11	Empty Slot		Clear
12	Empty Slot		Clear
13	Empty Slot		Clear
14	Empty Slot		Clear

Auto Sources [Clear List](#)

Discovered NDI Sources

Source Name	Source URL
SKYNETMUNK (Mix1)	169.254.201.122:5961
DESKTOP-V28DS9N (Mix1)	192.168.15.99:5961



MIX Controls



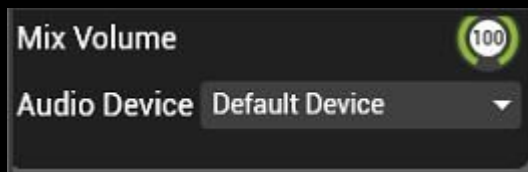
Added additional Effects engine to the mix controls



MIX Master Volume



Each Mix has an independent volume and Audio output device



Multicontroller



Added Support for Streamdeck XL to Multicontroller



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Upcoming Events



[HippoSchool Basic 1, 2 & Basic 3D -London, UK](#)

1st October 2019 @ 10:00 am - 3rd October 2019 @ 5:00 pm *at Green Hippo (Head office)* HippoSchool is designed specifically to show you how to operate, configure and get the most of your Hippotizer Media Server.

- [Introduction to Hippotizer webinar – 7am ET/ 12pm BST/ 8pm CST](#)
- 9th October 2019 @ 12:00 pm *at* Get started with Hippotizer PLAY and Hippotizer Media Servers.
- [Introduction to Hippotizer webinar – 10am GMT/ 6pm CST](#)
- 30th October 2019 @ 10:00 am - 11:30 am *at* Get started with Hippotizer PLAY and Hippotizer Media Servers.

<https://www.green-hippo.com/support/training/>



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PALDIES!

Thank you!

Andrejs Mefodovskis

PRO 1 STAGE SIA



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