HIPPOTIZER

BUILT ON EXPERIENCE, BUILT ON PASSION, BUILT ON EARTH

Green Hippo

V4

Contents

About Us

If you trace the evolution of realtime video manipulation back to its roots, there'll be one name that punctuates its history over and over again. Green Hippo Ltd. Since Green Hippo's inception at the end of the last century, the timeline of this still-growing genre is a weave of two distinct threads; The demands of users driving Green Hippo's to create class-leading solutions woven conversely with visual moments that simply would not have been possible for the very same users without the innovative features Green Hippo has thrust upon them. A weave that is as supportive of its users' needs as it is influential in their output. And therein lies the secret of Green Hippo's success to this day. Listen as much as you teach. Provide users with what they want alongside new features they didn't know they needed.

In the early 2000s, a strong bond with VJs and visual artists led to a foundation on which the way this ground-breaking approach to visuals would evolve for Green Hippo. Each team-member brought in to swell the ranks of staff had to bring something new to the company; preferably with hands on experience of the challenges the company must strive to overcome.

Adopting a truly international stance from day one has meant Green Hippo has progressively built a truly global product line; a product line found on high profile events in every corner of the globe; products that influence video display everywhere regardless of culture or habitat.

As competition has increased, Green Hippo has shunned the shallow and the glitzy remaining focussed on tools that add to production values on live events and keep production times to a minimum. A vast amount of real-world knowledge ensures that Green Hippo's products don't just shine in brochures and on tradeshows, they excel when integrated into real-world environments, adding efficiency and reliability to events large or small, from Disney and the Academy awards to the next up and coming rock band's first album tour.

Green Hippo only makes realtime video products. It is focused and dedicated to influencing the future of how real-time video is deployed now and in the future. Hippotizer Media servers are historically influential and the advent of Hippotizer Version 4 software in autumn of 2014 will see that continue in the field of Event Technology. Alongside this, the new AViary Video Tools range takes the vast knowledge and understanding garnered from 14 years in the world of live staging and introduces ground breaking approaches and techniques to the world of Professional AV and installation.

Green Hippo will always be associated with one of the key periods in the history of video. However, this was the laying of a cornerstone. The most important element for the building of something bigger and better on solid foundations. What is built from hereon in will be just as historic as the story so far.

> " It's a new level going forward that I don't think anyone in the media server market has seen in a long time "

HIPP▽TIZER V4

BUILT ON EXPERIENCE, BUILT ON PASSION, BUILT ON EARTH

Green Hippo has always been at the forefront of Media Server technology with the Hippotizer range. Award winning features such as UberPan, Cross-Fade on Layer, Presets and RegionMapper ensure Hippotizer remains the server of choice for events worldwide. Building on that success, Green Hippo is pleased to present Hippotizer Version 4.

Thanks to a new hardware platform, V4 offers a distinct leap in performance with increased outputs that support resolutions to 4K and beyond. Version 4 also bears the fruit of Green Hippo's dedication to software development; including FlexRes, built in 3D visualiser, SHAPE integration, all new output managment and a re-designed user inter-face. Every V4 system features front panel indication of system status, as well as remov-able hard drives as part of the STRATA Caddy System. Inside, Hippotizer V4 includes all Solid State Drives as standard and the latest graphics technology to deliver unmatched performance.

KEY FEATURES

SHAPE — A 3D mapping and projection toolset integrated into Hippotizer V4. Import 3D models to project onto even the most complex objects.

STRATA — Instantly transfer media and settings between Hippotizers with V4's removable drive system: STRATA. Move between systems, or even system types by simply inserting the caddy.

Visualiser: Pre-visualise multiple outputs in 3D using ZooKeeper's interface or view the output in real time.

Mixes: Run as many or as few layer mixers as needed in Hippotizer V4 for complete flexibility. Each mixer can feed one or more outputs so the system is customised for each show.
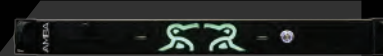
Output Manager: A new and intuitive interface making output set-up quick and easy. Build the Hippotizer you need with complete flexibility in output mapping and assignment.

New UI: A new user interface that is familiar to existing users while being completely customisable.

AMBA

- 1 DVI Dual link Output
- Integrated DVI or HD-SDI Capture*
- 1 Removable STRATA drive

KARST

- 3 Outputs: 2 x DVI or HD-SDI* and 1 Display Port
- Integrated DVI and/or HD-SDI Capture and Genlock*
- 2 Removable STRATA drives
- Supports 4K

BOREAL

- 4 Outputs: DVI or HD-SDI* with EDID Management
- Integrated DVI and/or HD-SDI Capture and Genlock*
- Optional Touchscreen*
- 4 Removable STRATA drives
- Supports 4K

TAIGA

- 6 Outputs on Display Port 1.2 or 6 DVI outputs
- Integrated DVI and/or HD-SDI Capture and Genlock*
- Optional Touchscreen*
- 4 Removable STRATA drives
- Supports greater than 8K

*Specify at time of purchase

TAIGA

The powerhouse of the range, Taiga redefines all that is possible from a single media server. Featuring 6 unlimited DisplayPort outputs, the Taiga can drive at least 3 x 4K displays at full frame rate. DisplayPort 1.2 enables the Taiga to drive many 4K displays and projectors with a single cable. Taiga uses the newest generation of server-class computer hardware to deliver unrivaled performance.


- 6x DisplayPort 1.2 outputs or 6x DVI Dual link outputs

- Genlock as standard

- 3TB of internal Solid State Drives (SSD) including 1TB of PCIe SSD

- Stereo XLR Audio in and out with isolation and earth lift

- 2x optional internal Capture Cards

- Optional internal SMPTE card

- 4x removable drive bays for upto 4TB of additional SSD storage using the STRATA Caddy System

- Optional Touch screen

- Status-indicating front LEDs

*Visit page 17 for Taiga technical specifications*
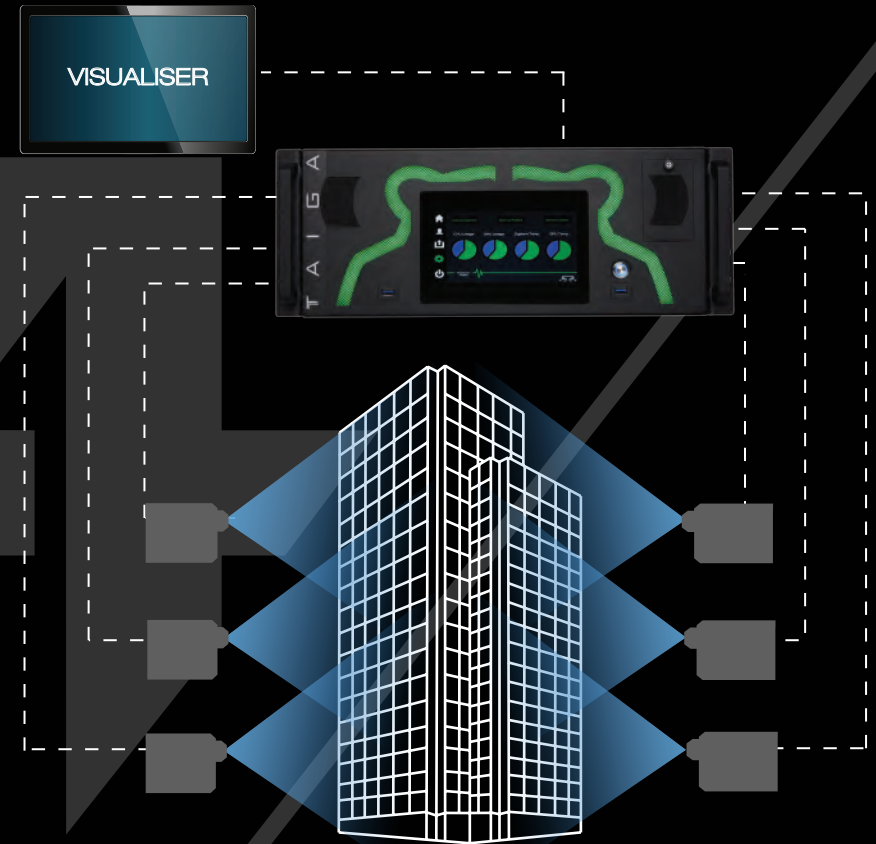
VISUALISER

- Run many outputs at once while visualising the entire canvas in real time

- Use SHAPE to map your content onto complex 3D structures from a 3D model

- Alternatively, use RegionMapper to quickly map 2D content onto a 3D surface without a 3D model

Green Hippo is constantly improving its product range, so specifications are subject to change.

BOREAL
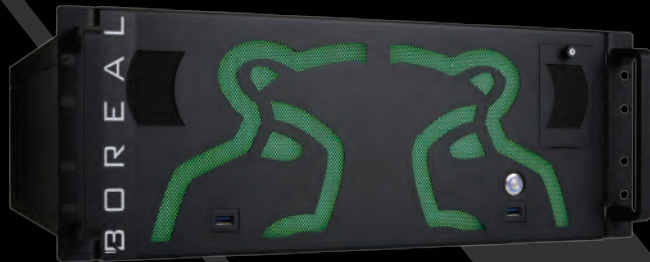
The new standard for touring media servers. With four DVI or HD-SDI outputs, Hippotizer Boreal is designed for the rigours of life on the road. All video outputs are EDID managed with dedicated hardware to ensure easy set up and operation in any environment. Each output includes a second parallel connection to enable local monitoring.
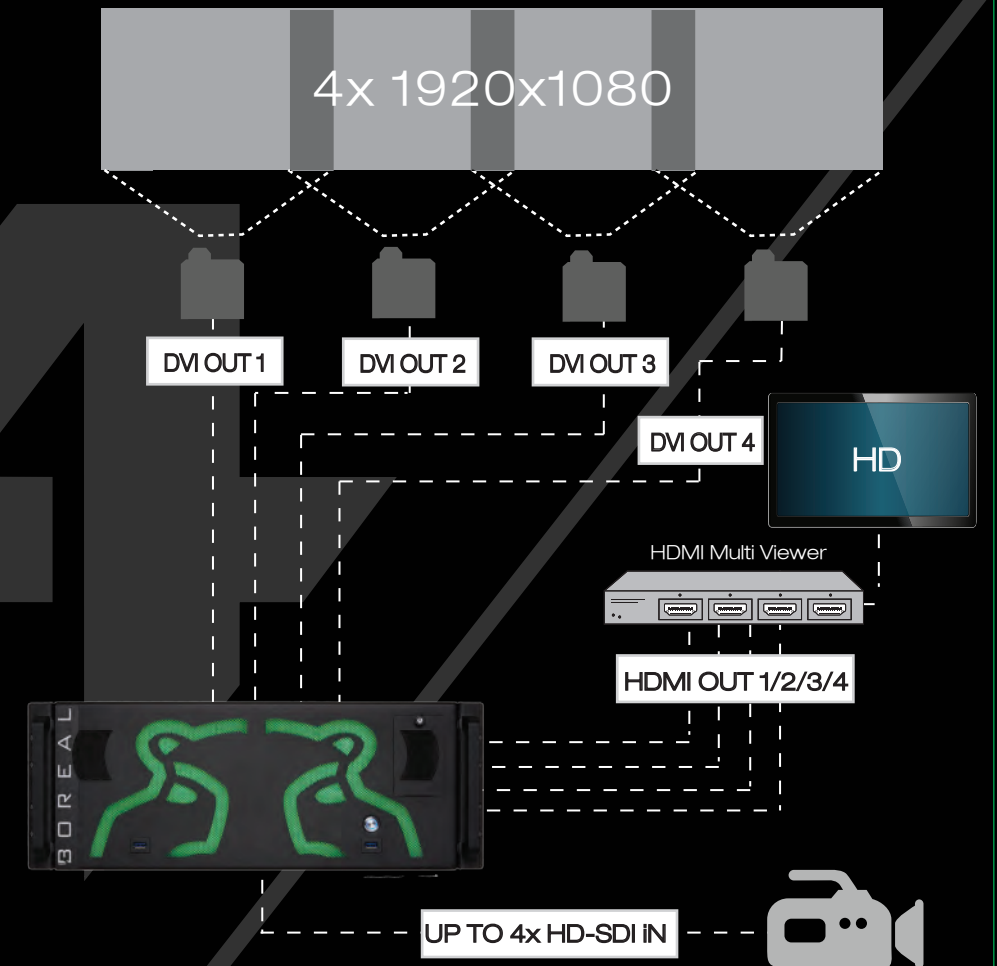

- 4x DVI or HD-SDI outputs (chosen at purchase)

- EDID management

- Stereo XLR Audio in and out with isolation and earth lift

- 2x optional internal Capture Cards

- Optional: 10Gb Ethernet for superfast media transfer

- Internal SMPTE card available

- Genlock optional

- 4x removable drive bays with STRATA Caddy System

- Optional Touch screen

- Status-indicating front LEDs

4x 1920x1080

DVI OUT 1   DVI OUT 2   DVI OUT 3

DVI OUT 4   HD

HDMI Multi Viewer

HDMI OUT 1/2/3/4

UP TO 4x HD-SDI iN

- Use parallel outputs (DVI or SDI) to preview multiple outputs

- One Boreal driving 4x HD projectors over DVI

- Low latency SDI or DVI Capture available

Green Hippo is constantly improving its product range, so specifications are subject to change.

KARST

KARST

Unparalleled power and flexibility built into a custom, tour-ready case. A host of customisable output and capture options ensure that the Hippotizer Karst can fit into a multitude of different roles. Featuring a total of 3 outputs, as well as two ZooKeeper monitor outputs, this highly specified server can drive the most demanding shows with ease. At only 2 rack units high, the Hippotizer Karst packs two HD-SDI outputs into a very small space while the third DisplayPort 1.2 connection offers the ability to drive 4K displays with a single cable.

DVI OUT 1

DVI OUT 2

HD

OUTPUT 3: LIVE INPUT

HD-SDI IN

HD-SDI IN

ZOOKEEPER
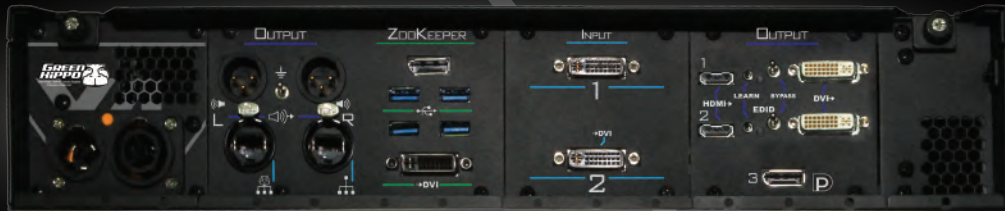
- 2x DVI or HD-SDI outputs

- EDID management

- 1x DisplayPort 1.2 output (Supports 4K)

- Stereo XLR Audio out with isolation and earth lift

- 1x optional internal Card (SMPTE/ Capture)

- Genlock optional

- 2x removable drive bays using the STRATA Caddy system

- Status-indicating front LEDs
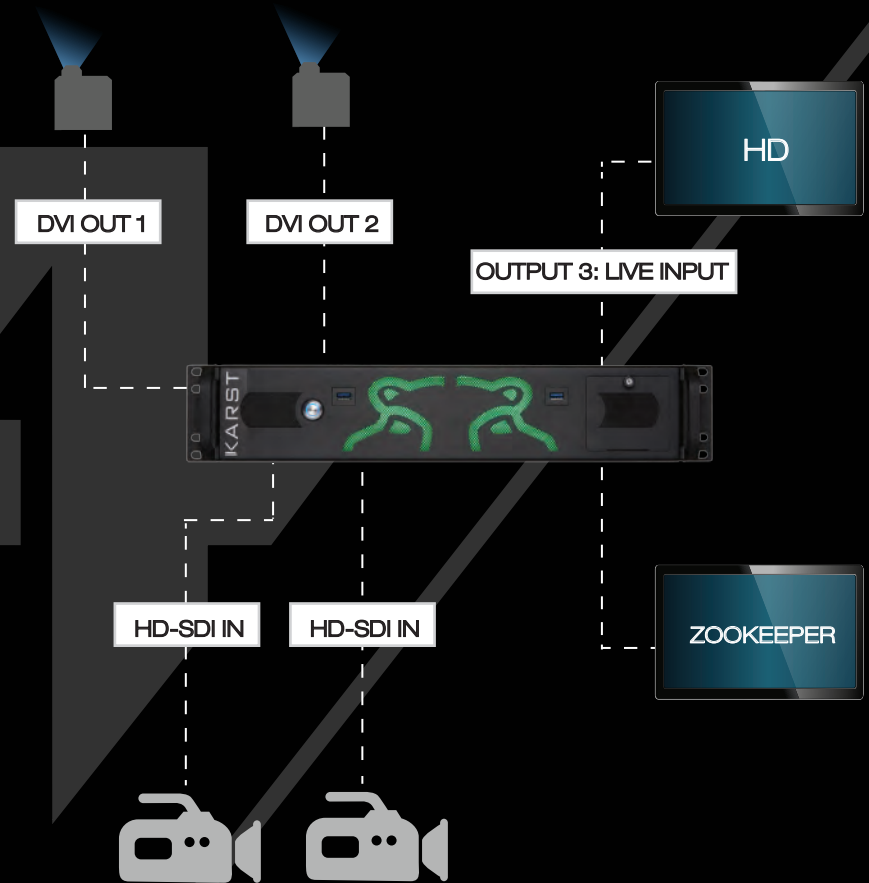
- Drive two outputs with EDID managed DVI

- Capture upto 2 HD-SDI feeds with low latency

- Preview both outputs on a single screen using 3rd output

Green Hippo is constantly improving its product range, so specifications are subject to change.

AMBA

A compact and powerful 1U media server with the capacity for an internal capture card and a removable drive; the Hippotizer Amba outperforms many larger systems. With a single unlimited resolution output, the Hippotizer Amba can be used with splitters or on greater than HD projects.

* Shown with optional dual HD-SDI capture card

- 1x DVI Dual link Output (Supports splitters)

- 1x optional internal Card (SMPTE/Capture)

- Supports 4K with DP 1.2

- 1x removable drive bay as part of the STRATA Caddy system

- Status-indicating front LEDs
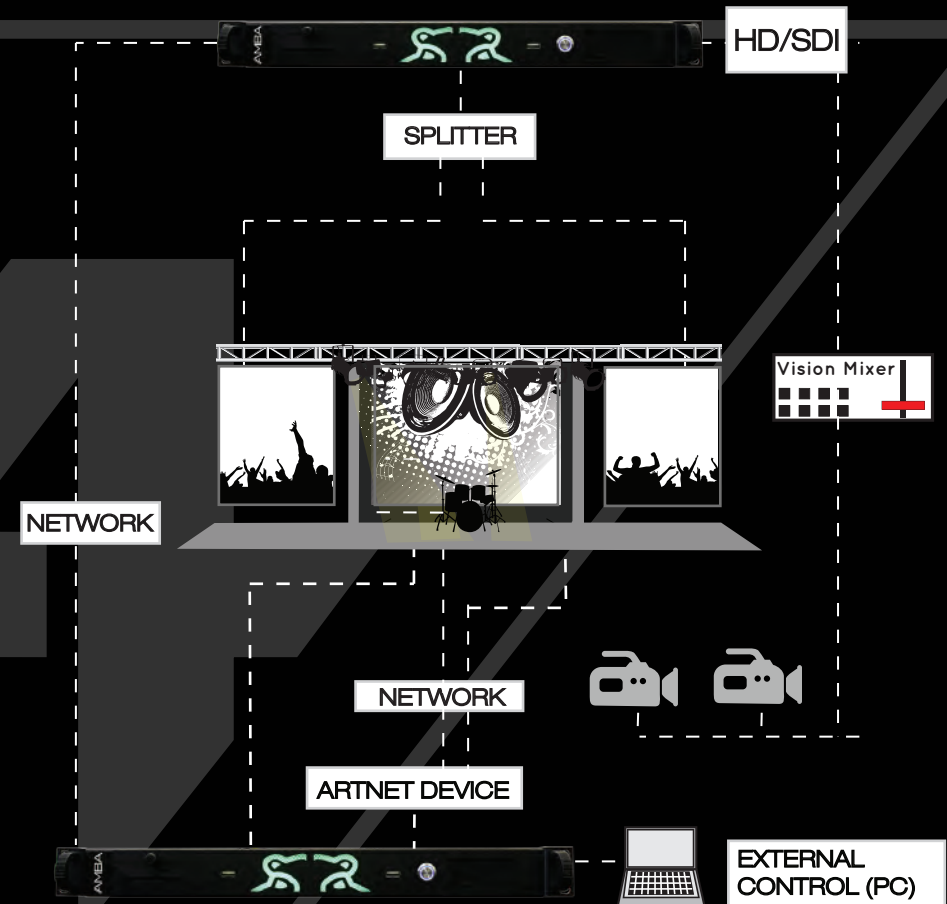
- Use HippoNet to easily synchronise many systems across a large site

- Run only network cable between servers

- Use RegionMapper and a remote ZooKeeper to map simple objects

Green Hippo is constantly improving its product range, so specifications are subject to change.
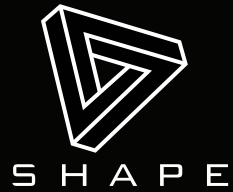
SHAPE

Projection mapping has become a very popular method of displaying video on 3D surfaces, such as buildings and sculptures. This can produce truly stunning visual displays yet it poses some major technical challenges.

SHAPE is a new software component within Hippotizer V4 that makes 3D mapping easier and faster for content creators and projectionists alike.

Import a 3D model into the software including the UV map. The model can then be viewed, edited and configured using the free SHAPE manager software.

Using Green Hippo's powerful networking functionality, SHAPE employs the outputs of any Hippotizer V4 machines to render as many video streams as are needed. Hippotizer handles media management and playback control, leaving the projectionist to focus on the 3D line-up.

SHAPE includes a powerful automatic projector line-up tool which allows simple line-up of content by selecting key points on a model in real time. Once lined-up, SHAPE also provides blending, warping and masking tools to ensure perfect projection.

Once the projectors are correct, the SHAPE controllers can be disconnected: Hippotizer V4 handles playback with a suite of tools and effects to create beautifully mapped high-resolution content on the most challenging of surfaces.

Auto-align feature being used to lineup the building for Radio One's Big Weekend 2014.
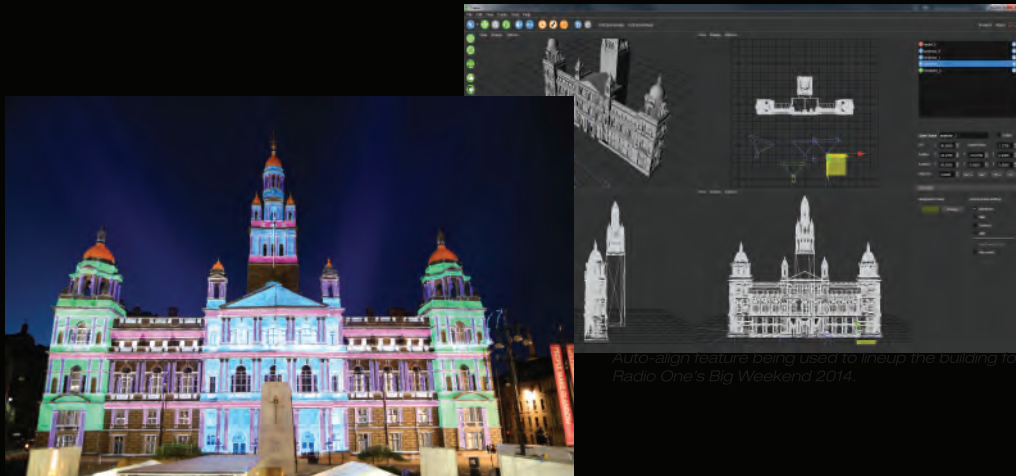
True 3D mapping system that understands Depth and can map around 3D Shapes

Automatic projector line-up: simply point the projector at the object and mark as few as four points.

Grid based projection warping system

Intuitive interface for fast delivery of complex projects

Free control software enabling anyone to learn SHAPE

Real time control allows on-the-fly changes

Can be used on complex and simple models

Supports embedded UV maps

Imports .obj 3D model files

Per output warping, to compensate for lens distortion and inaccuracies in the 3D model

Per output free form blending with unlimited mask and blend shapes

Network-based architecture to configure and line-up multiple Hippotizer media servers over a standard Ethernet network

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SHAPE's framework has been in development by Green Hippo for some time now. Whilst version 1.0 is without doubt a powerful tool in itself, our developers have planned ahead with this ground-breaking new software. SHAPE will always work seamlessly with Green Hippo products but its structure is such that it will evolve over time into an invaluable standalone production tool for industry professionals involved in every stage of projecting 3D images. We anticipate its development will be instrumental in unifying the process for this exciting genre. Watch this (3D) space!

SHAPE Features

Built in 3D model optimisation tools

Model and scene editing without external software

Comprehensive set of freeform masking tools for projectors or images

Projector blending system for multiple projector setups

Grid based projector warping system for each projector

Plug-ins available for popular media authoring tools to allow real-time visualisation directly from canvas

Fast automated multi-user projector line-up system

Multi user session based networking system

Can be used standalone or tightly integrated within the Green Hippo Hippotizer V4 or AViary range of servers

Supports import of scenic elements with full material support

Supports scenic lighting to for added realism

Built in set of common objects

1. Designer aquires basic 3D model from scan or technical drawing and imports into SHAPE

2. Content creators use SHAPE to modify model, update UV's or add projective texturing

3. Content creators visualise their content in 3D, in real-time whilst they are editing it

4. Technician takes project file and adds projectors into the scene

5. Engineer loads project into multiple servers and sets up outputs

6. Multiple engineers line up projectors on site simultaneously

7. Operator runs show from 1 machine

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Why Hippotizer V4?

Green Hippo

One server for every project!

V4 has the ability to use many more mixes and layers which can be assigned to one or many outputs using Output Manager, previous incarnations such as Hippotizer HD would always run two mixes into two outputs (Dual Mode). Use one mix to playback 4K content into 4 HD-SDI outputs today, and 4 Mixes into 4 outputs tomorrow. View all mixes on one screen for preview, or overlapping mixes for blending for even more flexibility.

The Hippotizer Workflow!

With Hippotizer's Media Manager, all media can be imported using drag and drop. WatchFolders automate new media detection, encoding and distribution. Our Codec: FlexRes, enables visually lossless playback with direct export from most content creation software. Add the STRATA caddy system, for instant media transfer on fast, durable, Solid State Drives and Hippotizer V4 really is taking the work out of workflow.

The same trusted server with more power and flexibility!

Thanks to a new generation of computer hardware, Green Hippo now offers higher performance systems with more outputs than ever before. With a network of distributors offering support and training worldwide, all backed by a dedicated support team at Green Hippo, we stand behind our product completely.

3D when you need it!

Hippotizer V4 offers a comprehensive suite of features to make working in 3D simple. For complex set-ups, SHAPE can import a 3D model and modify it, even from multiple stations with a revolutionary workflow to assist. Line-up, blend and warp projected images in real time. Our UberPan component can automatically split and distribute media to the servers. For projects without a 3D model, RegionMapper allows you to draw the model directly onto the projector output. In addition. With the built in Visualiser in Hippotizer V4, the show can be programed before ever going to site.

You want the image where?

LED walls, tiled displays and complex projection set-ups are common. VideoMapper makes complex LED walls simple thanks to pixel accurate input and output mapping, Features such as warping, blending and masking create perfectly smooth screens with ease. ZooKeeper control centre allows the projectionist to work from a laptop in front of the display instead of backstage. Perfect video in an imperfect world.

Get there, fast!

Crossfade on Layer, LiveMask and Presets mean even the most complex shows can be programmed directly from ZooKeeper, or with an external controller over DMX, Midi or OSC. Hippotizer is realtime; optimise control with presets or timelines. You decide.

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15,000 PAGE VIEWS
IN THE FIRST 4 DAYS OF LAUNCH

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TAIGA

Specifications	Taiga DP - 6	Taiga DVI
Video Outputs	6	6
Output Connector	Display Port 1.2	DVI - DL
4K Support	Yes - Up to 6 x 4K outputs	Yes - up to 6 x 4K outputs
Supports Output Splitters	Yes	Yes
ZooKeeper Outputs	2x DVI-D	2x DVI-D
USB Connectors	6x USB3	6x USB3
STRATA Bays	4	4
Audio In	Stereo XLR in	Stereo XLR in
Audio Out	Stereo XLR out	Stereo XLR out
Video Capture	DVI / HD-SDI*	DVI / HD-SDI*
Networking - 10Gb	1 x Cat5 EtherCON	1 x Cat5 EtherCON
Networking - 1Gb	1 x Cat5 EtherCON	1 x Cat5 EtherCON
Size (L/W/H)	630x450x180mm	630x450x180mm
Size with Rack ears(L/W/H)	670x480x180mm	670x480x180mm
Size - Rack Units (U)	4U	4U
Weight (approx.)	35kg	35kg
Power Input	Neutrik PowerCOM True 1**	Neutrik PowerCOM True1**
Voltage	100-250v 50/60Hz Auto-Sensing	100-250v 50/60Hz Auto-Sensing
Power Consumption	1100 VA	1100 VA
Mounting	Front and Back Rack-ears included	Front and Back Rack-ears included
Rack Drawer Compatible	Yes*	Yes*
Max. Mixes	Unlimited	Unlimited
EDID Management	No	No
Genlock	Yes	Yes
Internal Drive Storage Space	1.4Tb PCIe SSD	1.4 Tb PCIe SSD
System Drive	SSD	SSD
Touch Screen	Optional*	Optional*
Software updates from purchase date	3 Years	3 Years

* Specify at time of purchase   *** If redundant PSU is specified, power input is on 2 x IEC.

BOREAL

Specifications	Boreal SDI-4	Boreal DVI-4	Boreal DVI-4 Genlock
Video Outputs	4	4	4
Output Connector	Dual HD-SDI (3G/HD/SD)	DVI and HDMI or DVI-DL* / ***	DVI and HDMI or DVI-DL * / ***
4K Support	Yes	Yes	Yes
Supports Output Splitters	No	On DVI-DL version only	On DVI-DL version only
ZooKeeper Outputs	2x DVI-D	2x DVI-D	2x DVI-D
USB Connectors	6x USB3	6x USB3	6x USB3
STRATA Bays	4	4	4
Audio In	Stereo XLR in	Stereo XLR in	Stereo XLR in
Audio Out	Stereo XLR out	Stereo XLR out	Stereo XLR out
Video Capture	DVI / HD-SDI*	DVI / HD-SDI*	DVI / HD-SDI*
Networking	2x Gigabit EtherCON	2x Gigabit EtherCON	2x Gigabit EtherCON
Size (L/W/H)	630x450x180mm	630x450x180mm	630x450x180mm
Size with Rack ears (L/W/H)	670x480x180mm	670x480x180mm	670x480x180mm
Size - Rack Units (U)	4U	4U	4U
Weight (approx.)	30kg	30kg	30kg
Power Input	Neutrik PowerCOM True1**	Neutrik PowerCOM True1**	Neutrik PowerCOM True1**
Voltage	100-250v 50/60Hz Auto-Sensing	100-250v 50/60Hz Auto-Sensing	100-250v 50/60Hz Auto-Sensing
Power Consumption	900 VA	900 VA	900 VA
Mounting	Front and Back Rack-ears included	Front and Back Rack-ears included	Front and Back Rack-ears included
Rack Drawer Compatible	Yes*	Yes*	Yes*
Max. Mixes	12	12	12
EDID Management	Yes	Yes ***	Yes ***
Genlock	Yes	No	Yes
Internal Drive Storage Space	1TB Solid State	1TB Solid State	1TB Solid State
System Drive	SSD	SSD	SSD
Touch Screen	Optional*	Optional*	Optional*
Software updates from purchase date	3 Years	3 Years	3 Years

* Specify at time of purchase   **If redundant PSU is specified, power input is on 2 x IEC   *** No EDID Manager on DVI-DL version.

KARST

Specifications	Karst SDI-2	Karst DVI-2	Karst DVI-2 Genlock
Video Outputs	3	3	3
Output Connector	2 x HD-SDI, 1 x DP 1.2 **	2 x DVI-DL, 1 x DP 1.2 **	2 x DVI-SL, 1 x DP 1.2 **
4K Support	Yes	Yes	Yes
Supports Output Splitters	Yes	Yes	Yes - On DisplayPort only
ZooKeeper Outputs	2 (1 x DVI, 1 x DP)	2 (1 x DVI, 1 x DP)	2 (1 x DVI, 1 x DP)
USB Connectors	6x USB3	6x USB3	6x USB3
STRATA Bays	2	2	2
Audio Out	Stereo XLR out	Stereo XLR out	Stereo XLR out
Video Capture	DVI / HD-SDI*	DVI / HD-SDI*	DVI / HD-SDI*
Networking	2x Gigabit EtherCON	2x Gigabit EtherCON	2x Gigabit EtherCON
Size (L/W/H)	600x450x80mm	600x450x80mm	600x450x80mm
Size - Rack Units (U)	2U	2U	2U
Weight (approx.)	18kg	18kg	18kg
Power Input	Neutrik PowerCOM True1	Neutrik PowerCOM True1	Neutrik PowerCOM True1
Voltage	100-250v 50/60Hz Auto-Sensing	100-250v 50/60Hz Auto-Sensing	100-250v 50/60Hz Auto-Sensing
Power Consumption	600 VA	600 VA	600 VA
Mounting	Front and Back Rack-ears included	Front and Back Rack-ears included	Front and Back Rack-ears included
Rack Drawer Compatible	Yes*	Yes*	Yes*
Max. Mixes	8	8	8
EDID Management	Yes	Yes	Yes
Genlock	Yes	No	Yes
Internal Drive Storage Space	500Gb Solid State	500Gb Solid State	500Gb Solid State
System Drive	SSD	SSD	SSD
Software updates from purchase date	3 Years	3 Years	3 Years

* Specify at time of purchase   ** DP 1.2 does not support conversion to DVI.

AMBA

Specifications	Amba
Video Outputs	1
Output Connector	DVI - DL / DP 1.2
4K Support	Yes
Supports Output Splitters	Yes
ZooKeeper Outputs	1-DVI
USB Connectors	6x USB3
STRATA Bays	1
Audio In	Stereo Jack
Audio Out	Stereo Jack
Video Capture	DVI / HD-SDI*
Networking	2x Gigabit RJ45
Size (L/W/H)	600x450x80mm
Size - Rack Units (U)	1U
Weight (approx.)	12kg
Power Input	IEC
Voltage	100-250v 50/60Hz Auto-Sensing
Power Consumption	400 VA
Mounting	Front Ears included
Rack Drawer Compatible	Yes*
Max. Mixes	4
EDID Management	Yes
Genlock	No
Internal Drive Storage Space	450Gb Solid State
System Drive	SSD
Software updates from purchase date	3 Years

* Specify at time of purchase

SUPPORT

Green Hippo's products are renowned for their reliability and durability. Shows are expected to push boundaries now and are often required to venture into unchartered territories. At times like these, solid, proactive technical support is a must. That's why you'll fine a long-serving team of dedicated technical support staff at our London HQ with knowledgebase articles on the Hippotizer website for additional help.

35 Distributors worldwide

We have a dedicated technical support team at our London HQ and it is a requirement of our distribution network to be trained and knowledgeable for first line support in local languages and time zones.

126 HippoExperts (and counting...)

All HippoExperts have graduated HippoSchool and have been expertly using Hippotizer media servers out in the field for many years. So if you need creative input or a show programmer who knows their way around a media server visit our website to see our worldwide HippoExpert network.

HIPPO▽SCHOOL

Green Hippo's Hippotizer training sessions 'HippoSchool' have been running for over 6 ½ years. Not only has the company maintained monthly training workshops at the Wood Green HQ for that time, HippoSchool has also toured extensively in support of Hippotizer's distribution network. HippoSchool has visited 38 countries worldwide across 5 continents, training over 2000 students, freelancers & professionals from ages 14 up to 70.

With the release of Hippotizer V4, the HippoSchool syllabus is experiencing its second major overhaul to bring it in line with all the new functionality to be found in our new systems. With so many graduates of HippoSchool V3 the aim is for people to have access to the training as easily and as cost effectively as possible.

For all future HippoSchool dates please visit: www.hippotizer.com/training

"Very impressed. I felt very comfortable in the interface even though it's all new. Becoming familiar really isn't a steep learning curve. Visualiser is phenomenal." *Anthony Vasquez, TMB*

"Super powerful. The way the visualiser works at full frame rate is fantastic..." *Jamie Baker, Creative Video Design*

"Amazing! The new features are amazing. Managing outputs is just wow! An EDID system with an on/off switch is very clever indeed!" *Stephane Caria, CSI*

CONTACT INFORMATION

General   info@green-hippo.com
Sales   sales@green-hippo.com

+44 (0) 203 301 4561

Green Hippo Ltd
Unit 307 Parma House
Clarendon Road
London N22 6UL

Visit www.hippotizer.com to see our worldwide distribution network

WWW.GREEN-HIPPO.COM