



Technical Data Sheet

Updated Jan 2014 for Software Version 3.3

Main features

- Full HD playback up to 5 MegaPixels with unrestricted output resolution
- Compatible with most industry standard output splitters
- Wide range of input options including 3G HD-SDI, DVI and HDMI
- Up to 5MP encoding and playback with built-in FlexRes codec



Hippotizer GrassHopper

If your project needs a single output of HD up to 5 MegaPixels in a robust but compact rackmount form then meet the Hippotizer GrassHopper, bringing a wealth of possibilities to any show whilst ensuring you don't compromise quality when meeting a budget.

GrassHopper shares all the software features of its close relative the Hippotizer HD. Its unrestricted output resolution allows you to drive a single HD display or lets you get the best from output extenders such as Datapath x4 Matrox multi-head adapters, or the EMSiVU4.

Use GrassHopper as a stand-alone player, deploy VideoMapper, RegionMapper for multiscreen displays or make it work hard as part of an UberPan rig to provide the flexibility, ease of use and array of configuration options you've come to expect from any member of the Hippotizer family.

- 2U rackmount case
- Class leading video playback and real-time rendering
- 12 Media layers (6 layers in XFade)
- PixelMapper with unrestricted number of output universes
- Optional patch panel for professional connections
- 2 FX engines per layer - 100+ effects per FX engine
- Frame accurate synchronisation across multiple servers
- MediaManager with live media updating and WatchFolders
- ScreenThief for Ethernet video capture
- Keystone and ScreenWarp for non-linear projection surfaces
- Soft-edge blending
- Timeline for stand-alone operation
- HippoNet
- External control via DMX / MIDI / TCP-IP / OSC / RS232 / MaNet
- High performance 3D show visualisation integration via CIP and HMap2
- Map to the most complex LED setups using RegionMapper and the award winning VideoMapper
- Create stunning multi-screen shows with UberPan controller driving up to 8 outputs
- New visual presets applicable across all layers
- XFade - Seamlessly switch between clips

www.hippotizer.com

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





Physical

Dimensions: Unit 438 x 410 x 89mm (17.2 x 16.1 x 3.5 inches)
Unit + fitted handles 480 x 450 x 89mm (18.9 x 17.7 x 3.5 inches)

Boxed For Shipping: 590 x 550 x 210mm (23.2 x 21.7 x 8.3 inches)
(WxLxH)

Weight: Unit 10.54kg (23.2lbs)
Unit-Boxed with accessories 12kg (26.5lbs)

Case Type: 2 U 19" Rackmount

Environmental Tolerances:

Operating Temp. Range: 5° - 35°C (40° - 95°F)
Humidity: 5% - 95% (non condensing)
Altitude: 0-8850ft (0 - 2700m)

Hardware

Voltage: 107 - 240v 50-60Hz Auto Switching

Power Consumption: 2.5 amps

Media Drives: 2

Total Media Storage Space: Over 25h HD / 75h SD content

Pro-Connectors / Breakout Panels: Optional

Inputs and Outputs

Outputs: Single unrestricted video output using VGA / RGBHV, DVI, Control 80 Artnet or Kinet universes, Control output using RS232, Ethernet control, DMX over Ethernet and HippoNet

Compatible Output Splitters: Matrox DualHead2Go and TripleHead2Go, EMSiVU4, Datapath x4

Max Output Resolution: 2 outputs @ 1920 x 1080
(using output extenders)
3 outputs @ 1280 x 1024
4 outputs @ 1024 x 768
4 outputs @ 1280 x 720

Video Inputs: 1 x HD-SDI, 2 x HD-SDI, 1 x HD-SDI/HDMI/YUV/
(single card can be fitted) S-Video/Composite, 1 x DVI/VGA, 2 x DVI/VGA,
1 x DVI/VGA + 4 x Composite, 8 x Composite,
ScreenThief Ethernet Capture

Audio, Control & Patching

Audio: Audio playback on separate layers, Volume and balance control, Multi-channel audio playback and Master volume control *

Control: RS232, Midi*, DMX over Ethernet and TCP/IP, OSC, DMX512* and MaNet

Patching: Comes complete with DMX & Midi personalities or create custom patch in the software, RS232, Midi 'Learn' patch, Diagnostics

Media

Supported Media Formats: Quicktime, MPEG1, MPEG2, AVI, DIVX, Windows Media, MPEG4, DV, PNG, JPEG, BMP, TIFF, TGA, Image sequences

Maximum Media Size and Playback Resolution: 1920 x 1080 (MPEG2)

Media cont.

Maximum Media Size with FlexRes: 5 MP

Maximum Number of Media Layers: 8 (6 in XFade)

Media Management: Automatic Media upload from network shared folders using WatchFolders, Remote media upload, Automatic media conversion, Drag & drop media upload and mapping, Live media update, Media thumbnails, 256 media groups, 256 clips per group, Network synch, Show backup

FlexRes: Green Hippo's own codec allowing greater than HD content, Full resolution support for alpha transparency, Greater colour subsampling up to 4:4:4

Media Playback: Inter-frame blending for super slow motion, Inpoint and Outpoint adjustments, Playmodes (loop forward, loop backwards, once forwards, once backwards, ping pong, random, pause, rewind on Level 0), Sync to Hippotizer, Sync to Timeline, Alpha channel support, Text Engine, Media generators (rain, snow, clouds, starfields, countdown etc), and Audio mix playback mode

Media Manipulation: Geometry control, Colour control (basic & advanced), 16 Mix Modes, 2 FX per layer, Effects / Transitions editor, Transitions and Free form mask

Show Programming: Unlimited Groups, Tracks and Timelines, Timeline copy and paste, Fadecurve editing, Timeline Logic, Cue Controller, Control non Hippotizer devices from Timeline, SMPTE and MTC synchronisation, Fast drag & drop playlist per layer

Show Pre-visualisation: HMap2 and CITP for streaming real-time output via local network.
Compatible visualisers: Light Converse, WYSIWYG, ESP Vision, Capture

Components

UberPan: Link in as slave, 12 slave (outputs) when used as Master, Virtual Media Manager, Media synchronisation, Media splitting, Canvas splitting, Support for 2 canvases and configurations

RegionMapper: Fast and intuitive quick add mode, Flexible source and destination mapping, Multiple regions, Warping support, Multiple output support, Multiple map support

PixelMapper: No software limitations on number of output universes, Fixture designer, Personalities for fixtures included, Drag and drop mapping interface, Flexible source mapping, Full Kinet Tier 2 and Artnet auto discovery

Preset Manager: Instantly recall saved layer or system states from ZooKeeper or DMX/Midi desk to control your entire show

XFade: Transition between content on same layer, Transition time, Fade only source, Automatically fade between clips and layer settings seamlessly

Timecode on layer: Assign Timecode to individual layers, SMPTE and MIDI, Shift Timecode for relays, Offset Timecode for individual timelines

Other Components:

VideoMapper

- Map LED tiles in any orientation with intuitive drag & drop interface

Scheduler

- Trigger Timelines or events from a clock

Automation tracking

- Follow scenic stage elements

LiveMask

- Draw masks directly into any layer

HMap & CITP

- Lighting console and visualiser integration

Pinbridge Plus

- Remap and group control pins -now with scripting

TelNet Control

- TCP/IP interface to HippoNet

OSC

- Open Sound Control interface

Colour Correction

- Full Gamma curve control of the outputs

BeatBridge

- Use Audio to trigger any control pin within Hippotizer

Text Engine

- Import and display full text files

Syncro Component

- Synchronise media players

*Yes - requires optional interface

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