

Hippotizer Genlock HD

Technical Data Sheet

Updated Jan 2014 for Software Version 3.3

Main features

- Two Genlocked HD outputs
- Full HD playback
- Greater than 10MP encoding and playback with built-in FlexRes codec
- Wide range of input options including 3G HD-SDI, SD-SDI, DVI, VGA and Composite
- 8 layers of simultaneous HD playback without dropping frames
- Class leading video playback and real-time rendering
- 32 media layers per output (16 layers in XFade)
- PixelMapper with unrestricted number of output universes
- 4U rackmount case
- Touring case with professional connections
- 2 FX engines per layer - 100+ effects per FX engine
- Frame accurate synchronisation across multiple servers
- MediaManager with live media updating
- 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
- High performance 3D show visualisation integration via CITP and HMap2
- Map to the most complex LED setups using the award winning VideoMapper
- Create stunning multi-screen shows with UberPan controller driving up to 12 render nodes
- Use LiveMask to create complex masks in realtime to project onto scenery or buildings
- XFade - Seamlessly switch between clips



New with software version 3.3: Multiple layers of 4K playback

Hippotizer Genlock HD

Hippotizer has firmly established its position within TV and Broadcasting and can also be found on many of the most popular productions around the world. Two displays can be driven by a single Hippotizer output with a custom Genlock solution. This eliminates any problems synchronizing Hippotizer outputs to cameras, making Hippotizer HD Genlock a favourite choice for the Broadcast sector.

Genlocking is a technique where a video output of one source, or a specific reference signal from a signal generator, is used to synchronize multiple video sources together. When video systems are synchronized in this way, they are said to be generator-locked, or 'genlocked'.

Genlocking video signals eliminates the "tearing" effect between two displays which are side by side or in the same video system, and also stops image roll when viewed through television cameras.

Complemented by a range of optional hardware this allows Genlock HD to interface with almost any industry standard protocol or signal. Hippotizer Genlock HD is the ultimate solution for realtime video playback on any television / broadcast show. VideoMapper and UberPan components allow even the most complex screen layouts to be realised. Add HippoNet, Green Hippo's unique networking protocol, and Hippotizer Genlock makes light work of any task, especially in multi-server applications.

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Hippotizer Genlock HD

Physical

Dimensions: Unit 480 x 585 x 177mm (18.9 x 23.0 x 7.0 inches)
Unit + fitted handles 480 x 627 x 177mm (18.8 x 24.7 x 7.0 inches)

Boxed For Shipping: 540 x 710 x 305mm (21.3 x 28.0 x 12.0 inches)
(WxLxH)

Weight: Unit 15.82kg (34.9lbs)
Unit-Boxed with accessories 19kg (41.9lbs)

Case Type: 4 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: 108 - 240v 50-60Hz Auto Switching

Power Consumption: 3.5 amps

Media Drives: 2

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

Pro-Connectors / Breakout Panels: Yes

Inputs and Outputs

Outputs: Two DVI HD video outputs with configurable EDID management; Control outputs using RS232, Ethernet control, DMX over Ethernet and HippoNet, Control 120 Artnet or Kinet universes

Video Inputs: 1 x HD-SDI, 3G dual HD SDI, 1 x HD-SDI/HDMI/YUV/
(2 optional cards 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 and DMX512**

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)

Maximum Number of Media Layers: 32 (16 in XFade)

Maximum Media Size with FlexRes: > 10 MP

**Yes - requires optional interface

Media cont.

Media Management: Automatic Media upload from network shared folder 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, Media generators (rain, snow, clouds, starfields, countdown etc), Text Engine and Audio mix playback mode

Media Manipulation: Geometry control, Colour control (basic & advanced), 16 mix modes, 2 FX per layer, Transitions, Effects / Transitions editor

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

Genlock: Monitors and auto engages the synchronization status of multiple Genlock compatible Hippotizer units.

UberPan: Link in as slave, 12 slave (outputs) when used as Master, Virtual Media Manager, Media synchronisation, Media splitting, Canvas splitting, Support for 8 canvases & configurations

LiveMask: Draw a mask directly into any layer or the master output, Vector based splines or lines, Create and access up to 255 masks

PixelMapper: No software limitations on number of output universes, Fixture designer, Personalities for fixtures included, Drag & 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 with a touch of a button

VideoMapper: Tile Wizard, Intuitive drag & drop interface, Independent scale and rotation for each tile, support for output extenders, colour correction per tile, up to 255 VideoMaps with instant switching/fading/morphing

DMX2: DMX2 can be used in the same way as DMX512 in previous versions, New personality editor and fixture configuration allow for Hippotizer to be configured as a specific fixture with a lighting desk.

Other Components:

Scheduler
Automation tracking
Chat
HMap2 & CITP
PinBridge
PhatController
TelNet Control
ToolBox
OSC
Colour correction
BeatBridge
Synchro Component
HippoSnapper
TextManager

- Trigger timelines or events from a clock
- Follow scenic stage elements
- Communicate with other crew members
- Lighting console and visualiser integration
- Remap and group control pins
- Control external devices via RS232 or TCP/IP
- TCP/IP interface to HippoNet
- Remote wakeup and shutdown of units
- Open Sound Control interface
- Full Gamma curve control of the outputs
- Use Audio to trigger any control pin within Hippotizer
- Synchronise media players
- Grab layers or output and save as image
- Import full text files, quick text, any font and size

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