PixelPower
broadcast graphics solutions

LogoVision

GRAPHICS PLAYOUT AND BRANDING FOR TRANSMISSION

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Introducing LogoVision

LogoVision™ is a family of branding and graphics playout devices designed for 24/7 operation in a transmission environment. The internal 10-bit downstream keyer has software watchdog and power fail bypass to protect the on-air signal and redundant power supplies are standard on most models. LogoVision is easily deployed for single or multi-channel environments and supports both standard and high definition video formats.

Graphics Capabilities

Recognizing the need to match budget and graphics requirements for a range of channels, LogoVision is available in three different versions.

Automated promo using real-time 3D transformations of video clips

LogoVision

LogoVision supports a wide range of branding requirements for both standard and high definition channels including multi-layer static and animated logos, clocks, text crawls, multiple tickers, DVE moves such as squeezeback, EAS and many other graphics elements.

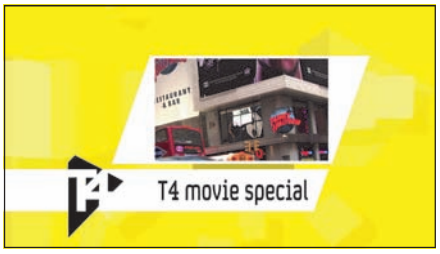
Audio processing is available for multi-channel sound with group mix, shuffling, automated duck and internal clip capabilities.

Automated credit squeeze

LogoVision CLIPS

LogoVision Clips adds two HD video clip players. Each clip player plays video and key streams and has its own 2D DVE. The clip players can be used for animated backgrounds, snipes, bumpers or even promo playback, freeing up ports on upstream video servers.

Pixel Power's dedicated clip subsystem and mild compression provide the highest quality of video playback. Occupying only 3RU of space, LogoVision Clips includes 2 hours of HD clip storage, expandable internally up to 8 hours.



Automated promo using clip players

LogoVision 3D

Premium channels demand the ultimate in branding graphics. LogoVision 3D adds real-time 3D and multi-channel 3D DVE capabilities, still within a compact 3RU chassis.

Dynamic text and live video from internal and/or external sources can be mapped onto sophisticated 3D models with key-frame animation.

Real-time 3D transformations of video clips

Graphics Workflow

LogoVision is a presentation device and has no built-in creation tools. Graphics are prepared using Pixel Prep software or Clarity hardware systems then transferred via network to the LogoVision playout device.

The choice between Pixel Prep software or Clarity hardware systems depends on budget. An appropriately configured Clarity system has the benefit of providing a real-time preview, including video clips, real-time 3D and live video sources.

Graphics content on LogoVision is managed remotely using the Pixel Power Management Console (PPMC) or Pixel Promo.

Automation Integration

LogoVision offers plug and play compatibility with all leading automation systems. Remote template filling and graphics recall are implemented using the established Pixel Power XML protocol over TCP/IP Ethernet or legacy serial Intelligent Interface protocol. For simpler applications GPIs can be used.

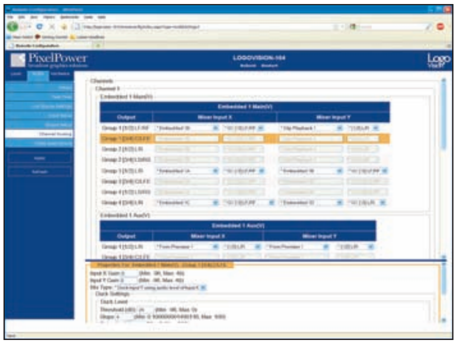
LogoVision is fully supported by Pixel Promo, Pixel Power's proven automated promo system which delivers substantial cost savings in scheduling and delivering interstitials.

Configuration and Control

LogoVision operates autonomously with no direct user interface. Configuration, management and operational control is provided via the front panel, the Pixel Power Management Console (PPMC) and serial and TCP/IP automation protocols.

The PPMC software facilitates:

- Connection to one or more local or remote LogoVision systems via LAN or WAN.
- Custom layouts showing templates, preview and air status, operational controls.
- Uploading of packaged graphics content to a LogoVision device.
- Manual playout control of graphics layers including adding/removing layers, triggering of custom animations and editing of template fields (text, static and animated logos and clips).
- Configuration of LogoVision system hardware and software settings.



LogoVision Options

Hardware Preview Output
Adds dedicated SDI video and key preview output and an additional analog monitoring output.

External Key/Fill Option
This option allows an external key and fill source to be combined with the internal graphics layers and keyed over the main video input.

This could be used to incorporate a facility wide set of common graphics used on multiple channels.

3D Cell Animation Playout
This software option adds support for live texture mapping of text and logo objects onto pre-rendered 3D cell animations (RPF sequences). Most LogoVision objects, including logos, text, animated logos and clocks can be added to the surface of the 3D animation.

Pixel Control Toolbox
The Pixel Control Toolbox is a simple development environment for creating custom data entry and control programs designed to provide real-time IP based control of LogoVision systems.

The Pixel Control Toolbox makes it possible for someone with little or no programming experience to develop and deploy powerful, customised, point & click software control panels with a minimum of effort.

Audio Processing
The audio option allows audio processing of embedded or AES steams. It also permits group mix of local multiple channels of audio clip with one or more embedded groups. Flexible automatic ducking of incoming audio is also available.

Dolby® E / Dolby® Digital Processing
LogoVision passes through Dolby encoded audio as standard. The Dolby option includes two processing modules which can be selected at time of order from Dolby E encoder, Dolby Digital (AC3) encoder or Dolby E decoder. For example, installing a Dolby E encoder and decoder allows one stream of Dolby audio to be group mixed with a baseband audio source (for example, internal or external voiceover).

EAS Option
LogoVision interfaces with common EAS receivers via RS232 to provide high priority overlay of EAS messages, including weather warnings and amber alerts.

Temperature Probe
LogoVision supports direct display of current temperature and interfaces with the supplied probe via RS232. The option also supports VBScript extraction of temperature, which can be used for accessing temperature information at a remote location via FTP, Database, Web Service or HTML scraping.

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FEATURES AND OPTIONS

System Features	LogoVision	LogoVision Clips	LogoVision 3D
10-bit Downstream Keyer With Bypass	✓	✓	✓
Pixel Control Toolbox for custom UI control	O	O	O
Industry Standard Automation Protocols	✓	✓	✓
Redundant PSU	O	✓	✓
SDI Video and Key Preview Output	O	O	O
Audio Processing	O	✓	✓
Pixel Power Management Console (PPMC)	✓	✓	✓
Dual Channel 2D DVE	O	✓	✓
Dual Channel 3D DVE	×	×	✓
4:2:2:4 video clip players with DVE	×	2 (HD) or 4 (SD)	2 (HD) or 4 (SD)
Timecode Reader	O	O	O
Dolby E / Dolby Digital processing	O	O	O
EAS Option	O	O	O
External Key & Fill Option	O	O	O
Temperature Probe Option	O	O	O
Graphics Capabilities	**LogoVision**	**LogoVision Clips**	**LogoVision 3D**
Independent Layer Control	✓	✓	✓
Static Logos	✓	✓	✓
Animated Logos	✓ (1/4 screen area)	✓	✓
Digital Clocks, Counters and Stopwatches	✓	✓	✓
Multiple Tickers and Crawls	✓	✓	✓
Shape Tools	✓	✓	✓
Wipe, Type and Fade Effects	✓	✓	✓
Cool Moves Animation Effects (for text, images and cels)	×	✓	✓
Smart Moves Animation Effects (for text and images)	×	✓	✓
RPF Live Mapping 3D Cell Playout	O	O	✓
Real-Time 3D Engine	×	×	✓
Unicode Font Support	✓	✓	✓
Text Templates	✓	✓	✓
500 Fonts Pre-Installed	✓	✓	✓
Enhanced Shape Tools	×	✓	✓
Notes			
	✓ = Standard	O = Option	× = Not Available

TECHNICAL SPECIFICATIONS

Supported Standards
SD - 625, 525, 4:3 / 16:9 / custom aspect ratios
HD - 1080i50/59.94, 1080p24/25, 720p50/59.94

Video Inputs
A and B - SDI SMPTE 259M or 292M video
Optional key and fill - SDI SMPTE 259M or 292M video
Analog black and burst or tri-level sync reference

Video Outputs
Program Video and Key - SDI SMPTE 259M or 292M video
Optional Preview Video and Key - SDI SMPTE 259M or 292M video
2 Analog monitor outputs with RGB/YUV (HD/SD) and YC/Composite (SD)

Audio Inputs
Embedded up to 4 groups on each SDI input
4 balanced AES pairs

Audio Outputs
Embedded up to 4 groups on Program and Preview SDI outputs
4 balanced AES pairs

Bypass
Relay and watchdog bypass on A input and AES audio with tally out

Miscellaneous I/O
4 GPI
4 GPO
RS232 port
RS422 port
RJ45 Ethernet port
USB Ports

Storage	LogoVision	LogoVision Clips / 3D
System memory	1Gb	2Gb
System drive	8Gb flash, optional HDD	200Gb HDD
Video clip	N/A	144Gb (optional 288Gb, 576Gb)

LogoVision Physical
Dimensions: 2RU 440w x 88h x 460d (17.3”w x 3.5”h x 18”d)
Weight: 12Kg (27lbs)
Power: 200W 110/220V 60/50 Auto Switching, Optional Dual Redundant PSU

LogoVision Clips / 3D Physical
Dimensions: 3RU 440w x 134h x 560d (17.3”w x 5.2”h x 22”d)
Weight: 25 Kg (55lbs)
Power: 400W 110/220V 60/50 Auto Switching Dual Redundant

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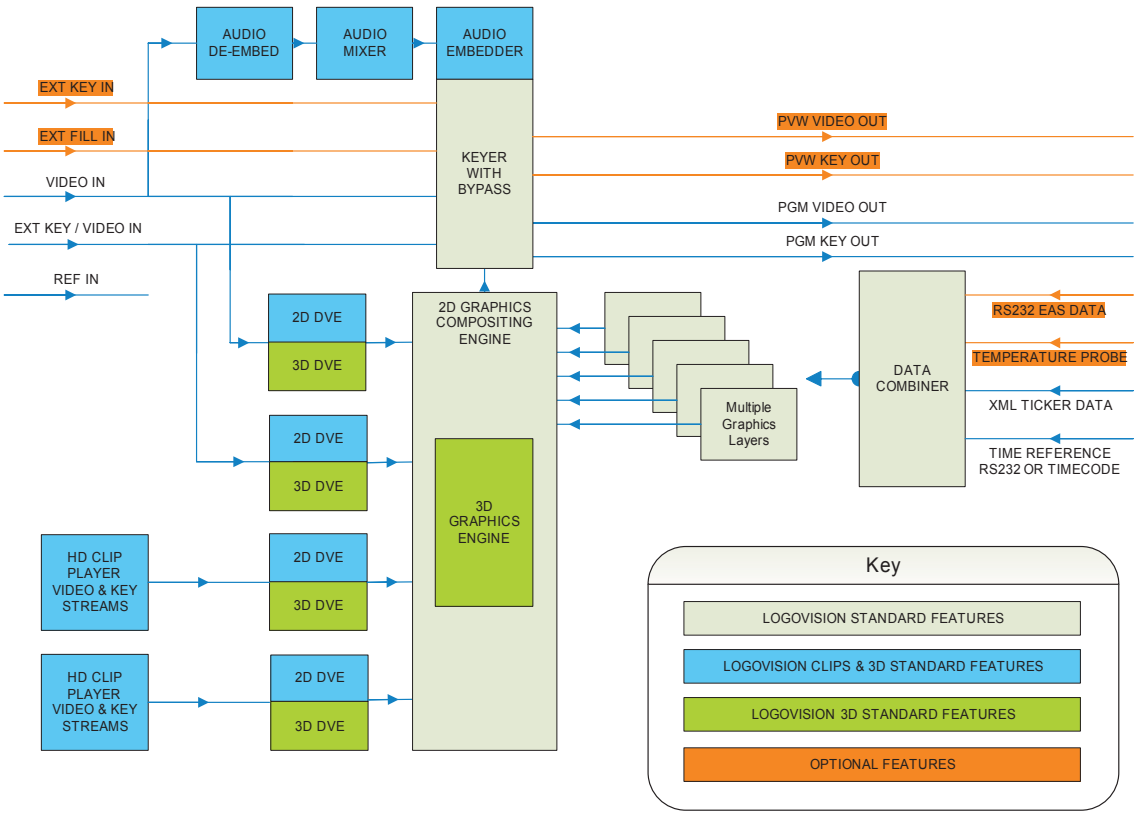
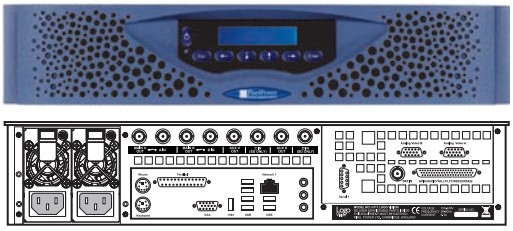
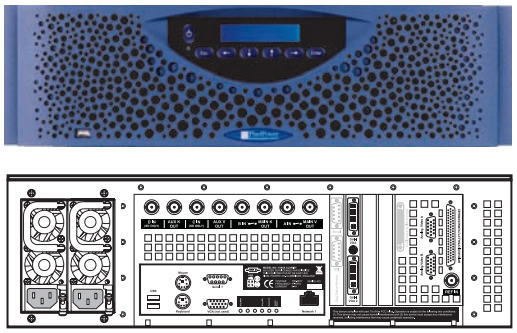
LogoVision Block Diagram





Logo Vision



Logo VisionCLIPS

Logo Vision3D

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