

image scientists

**DigitalVision.**  
a Blisstek Company world

**#IAMLOKI**  
**IMAGE PROCESSING**

# AUTOMATED, CONFIGURABLE, AND FLEXIBLE WORKFLOWS, FOR THE WORLD'S MOST POWERFUL IMAGE PROCESSING TOOLSET.

## INTRODUCING LOKI

Loki is the ultimate solution for file based image processing tasks, combining over 25 years of research and development into a cost-effective, versatile and scalable software solution.

Loki provides the world's best suite of image processing algorithms that can be easily configured to produce broadcast, post production and archive workflow solutions such as standards conversion, format conversion, noise reduction, digital camera image repair, restoration and more. With over 20 advanced

Digital Vision's award winning DVO image processing toolset has set the standard around the world for excellence in image quality. Loki now unleashes this unique and unparalleled toolset into fully configurable and automated workflows to allow you to attain the highest image quality for your media whatever your need or market sector.

Conceived from the outset as a fully scalable architecture, Loki is the perfect solution for standalone systems as well as larger enterprise installations.



### Integrates into your existing infrastructure and fits into your preferred workflow with ease

Loki's versatility offers multiple configurable watchfolders as well as an API to provide 3rd party control.

### Scalability

Expandable from one to many nodes to increase throughput and performance without compromise. Loki is upgradeable without limit to meet your technical challenges and grow with your business requirements.

### Wide range of supported file formats

Whatever your sector Loki provides file I/O compatibility familiar to your existing workflows.

### Industry Leading Standards Conversion

Developed over 25 years, Digital Vision's motion compensated technology provides the finest image quality when converting to and from any frame rate.

### Superior Up Conversion

The highest quality algorithm available for any resolution including 4K and above!

### Clarity Noise/Grain Reduction

Not all noise reduction systems are equal. Loki will unlock Digital Vision's legendary noise and grain reduction system.

### Wide range of processing tools as standard

- GoPro Lens distort correction
- Colour Space Conversions and transforms
- Apply LUT's
- Legalising
- Test Pattern Generator
- Blanking
- Cropping
- Scaling
- Interlacing tools
- Retiming



## FEATURES AT A GLANCE

### Watchfolders

Set up drop folders for automated processing to one or more outputs.

### Configurable Presets

Create presets for use in different workflows. Presets are created and shared across all nodes across the network.

### Preview effects

See a video preview of the resulting images before committing to the export.

### Audio pass-through and export

Whether pass-through or retime, import and export a range of audio formats including WAV, MXF audio, and Quicktime Audio.

### Burn in capability

Comprehensive options for text, timecode, and logo burn in.

### Job scheduling

Loki's advanced control allows for scheduled start times and prioritisation of jobs to maximise usage efficiency of network bandwidth, processor power and storage capacity.

### Pre-export file analysis

Metadata and analytics to assist processing decisions prior to export.

### Email alerting

Detailed email reporting to multiple addresses upon job completion.

### FTP upload

Automatic upload of completed exports to FTP.

### Network node capability

Loki seamlessly and easily scales over the power of multiple nodes to increase throughput and speed of exports.

### Usage reporting

Export job details in CSV and TXT file formats to assist in technical analysis and billing.

### Support of RAW camera formats

Loki accepts an extensive range of camera RAW formats and take advantage of the optional and unique de-bayer enhancement tools.

## NEED MORE SPEED? ADD MORE NODES...

Loki can easily integrate into existing multiple render node infrastructures and distribute and manage multiple jobs without the need for operator intervention.

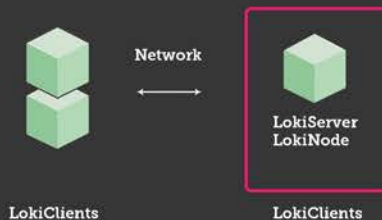
## INTELLIGENT CLIENT - SERVER- NODE ARCHITECTURE

Deployment of Loki is incredibly easy whether installing on a single system or over an enterprise network setup. Thanks to its SOA (Service Orientated Architecture), jobs can be created and monitored on any system on the network, providing multiple users access to the tools they need, anywhere and at any time in the facility.

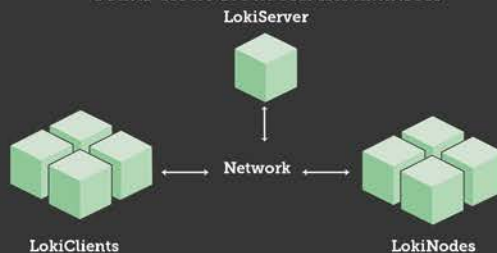
### Standalone Installation



### Minimal Network Installation



### Multi-node Network installation



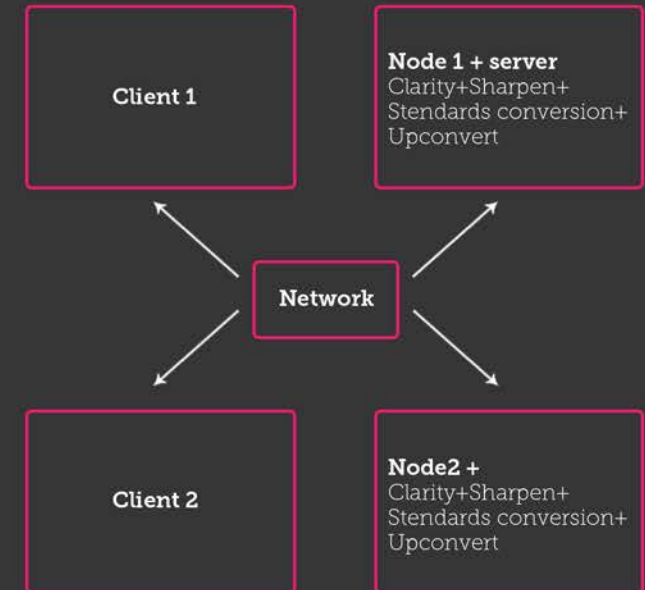
## CUSTOMISE YOUR WORKFLOW WITH THE LOKI DVO PLUG-INS

Decide on the number of clients and render nodes needed and then simply choose your tools from the extensive range of DVO plug-ins below to complete your Loki workflow.

LOKI PLUG-IN	LOKI PLUG-IN DESCRIPTION
DVO Warp	Removes warping associated with line scanners
DVO Steady II	Removes film weave, camera shake, and automatic splice jump removal
DVO Dry Clean	Superb automated large artefact removal
DVO De-interlace	High quality de-interlacer
DVO Clarity	Next generation digital noise and film grain management with automatic analysis and noise/grain reduction
DVO Three Two	Automated cadence and broken cadence detection and removal
DVO Sharpen	Sharpen the picture, not the noise
DVO Scratch Target	Semi-automatic vertical scratch removal with a fill-in result superior to traditional methods
DVO Regrain RGB	Add realistic, highly customisable grain to images
DVO Print Align	Automatically aligns RGB separation prints
DVO Pixel	Automated dead pixel detection and repair
DVO Noise	Removes unwanted noise on video materials
DVO Line Sync	Detect and correct video line displacement
DVO Grain GT	The next generation of motion-compensated film grain management and video noise reduction
DVO Flicker	Automatic flicker removal
DVO Drop-out	Highly accurate removal of video dropout
DVO Cross Colour	Removes chroma or dot crawl from video
DVO Alias	Removes aliasing or line flickering in interlaced pictures
DVO Brickwall	Sharp frequency cut-off to eliminate artefacts
DVO Aperture	Pictures appear sharper using a high-quality spatial filter
DVO Chroma	Removes fringes of colour caused by lens problems
DVO Up Convert	Both DVO Upscale and DVO Zoom

## EXAMPLE:

### The Ultimate Image Quality conversion workflow



Powered by DVO, the Industry standard image processing tools for film, video and digital media from Digital Vision.

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