

ALCHEMIST FILE TURNKEY

Hardware-based Impeccable Framerate Conversion



Alchemist® File Turnkey solutions combine our world-class media processing software with carefully selected state-of-the-art hardware to give you the next generation of unrivaled motion-compensated image transformation in a ready-to-use package.

In today's rapidly evolving IT environment, there is an abundance of choice when it comes to hardware.

Selecting the ideal platform or building a custom machine from the ground up can be a time-consuming process, fraught with potential compatibility issues.

Outstanding performance and stability is crucial for maximizing your investment and realizing the potential of your GV File product. Why take the risk? Let us do the work for you!

Alchemist File Turnkey from Grass Valley® is the combined hardware and software package of an Emmy® award-winning image processing tool, built to deliver picture-perfect quality the first time, every time.

- File-based processing at real-time speed
- Ready for immediate use right out of the box
- Certified by Grass Valley engineering
- Hardware & software supported by Grass Valley

Why choose our turnkey solution?

We understand the needs of our software better than anyone else. We have thoroughly studied the demands of simultaneously decoding and encoding popular compressed broadcast formats on a variety of CPUs.

We have mastered which GPUs offer the optimum performance for high-end OpenCL media processing and how many PCI lanes are required to unleash the full potential of a multiGPU system.

We have ensured you have fast memory and enough of it to convert even 4K DCI/UHD and 8K UHD media!

All this combined with our extensive thermal analysis, high powered efficient PSU and a robust, versatile form factor provides solutions worthy of the Grass Valley brand.

Key Features

- Turnkey options:
 - Enterprise
 - Professional
 - Certified by Grass Valley engineering
- Supplied with guaranteed performance
- Hardware and software support from Grass Valley
- Fast and easy deployment in your facility
- First year maintenance included

Alchemist File is available as a turnkey solution

Alchemist File is the first GV File product available as a Turnkey Solution. Both the Professional and Enterprise hardware offer ample processing power for current and future GV File products.

All turnkey solutions include hardware and product license/s.

Which option is best for me?

We have created two fantastic packages for you to choose from. The decision depends largely on the required throughput of media. The Professional Turnkey is a single license solution allowing real-time processing of UHD/3G/HD/SD jobs, on a one job at a time basis.

The Enterprise Turnkey is a two license solution, allowing twice the throughput of the single license solution (two jobs simultaneously, or one job at twice real-time speed).

In addition, both offer the ability to install a high-speed host bus adapter offering fast connectivity to remote storage (SAN/NAS).

Form factor and OS?

Both solutions come in a versatile 4 RU chassis that can be deployed either upright or rack-mounted and both come with Windows Server 2022.

New to GV File?

A scalable, file-based software framework, GV File combines Grass Valley's image processing expertise with commodity IT equipment to offer next-generation media transformation products.

Its Service Orientated Architecture and floating licensing model provides the versatility to evolve and adapt with changing business requirements.

	Real-Time	Real-Time	Twice Real-Time speed
Alchemist File	Professional x1 License running 1 job at a time	Enterprise x2 License running 2 jobs simultaneously	Enterprise x2 License running 1 job at a time
625i50 DVCPRO to 525i59 IMX	Yes	Yes	Yes
1080p25 XDCAM to 1080p29 ProRes	Yes	Yes	Yes
1080i59 AVC-I to 1080i50 DNxHD	Yes	Yes	Yes
1080p50 ProRes to 1080p59 ProRes	Yes	Yes	Yes
4K UHDp25 XAVC to 4K UHDp29 ProRes	Yes	Yes	Yes

Professional or Enterprise Turnkey Solutions

Category	Professional	Enterprise
Licenses	1	2
No. of GPUs	1	2
Real-time Speed	Yes	Yes
Form Factor	4 RU (upright or rack-mounted)	4 RU (upright or rack-mounted)
CPU Family	Xeon	Xeon
No. of CPUs	2	2
PCI-E Bandwidth per GPU	x16 5.0	X16 5.0
Redundant PSU	Yes	Yes
PSU Efficiency	Titanium	Titanium
Spare PCI-E Slot	Yes	Yes
Memory	ECC	ECC
IPMI	Yes	Yes
Storage	2x 480 GB SSD	2x 480 GB SSD
USB 3.0	Yes	Yes
Operating System	Windows Server 2022	Windows Server 2022

Ordering

Alchemist File Turnkey Professional

GVAF-HW-X13-PRO

1x Alchemist File license + Professional hardware

Alchemist File Single GPU Option

GVAF-GPU-PRO-OPT

A Grass Valley-authorized GPU for upgrading a GVAF-HW-X13-PRO Turnkey to an Enterprise Turnkey solution. Software licenses and onsite commissioning must be ordered separately.

Alchemist File Turnkey Enterprise

GVAF-HW-X13-ENT

2x Alchemist File licenses + Enterprise hardware

Alchemist File Single License

GVAF-BM-SL-OPT

1x Alchemist File license

Mandatory Maintenance

Conver-Prime

Mandatory 1-year annual maintenance – includes hardware and software support and in-version software updates.

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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