Next Generation of Quality- and Efficiency-Driven Thermal Plate Production Engines

:Avalon

:Avalon SF Thermal

:Avalon LF Thermal

:Avalon LF Violet

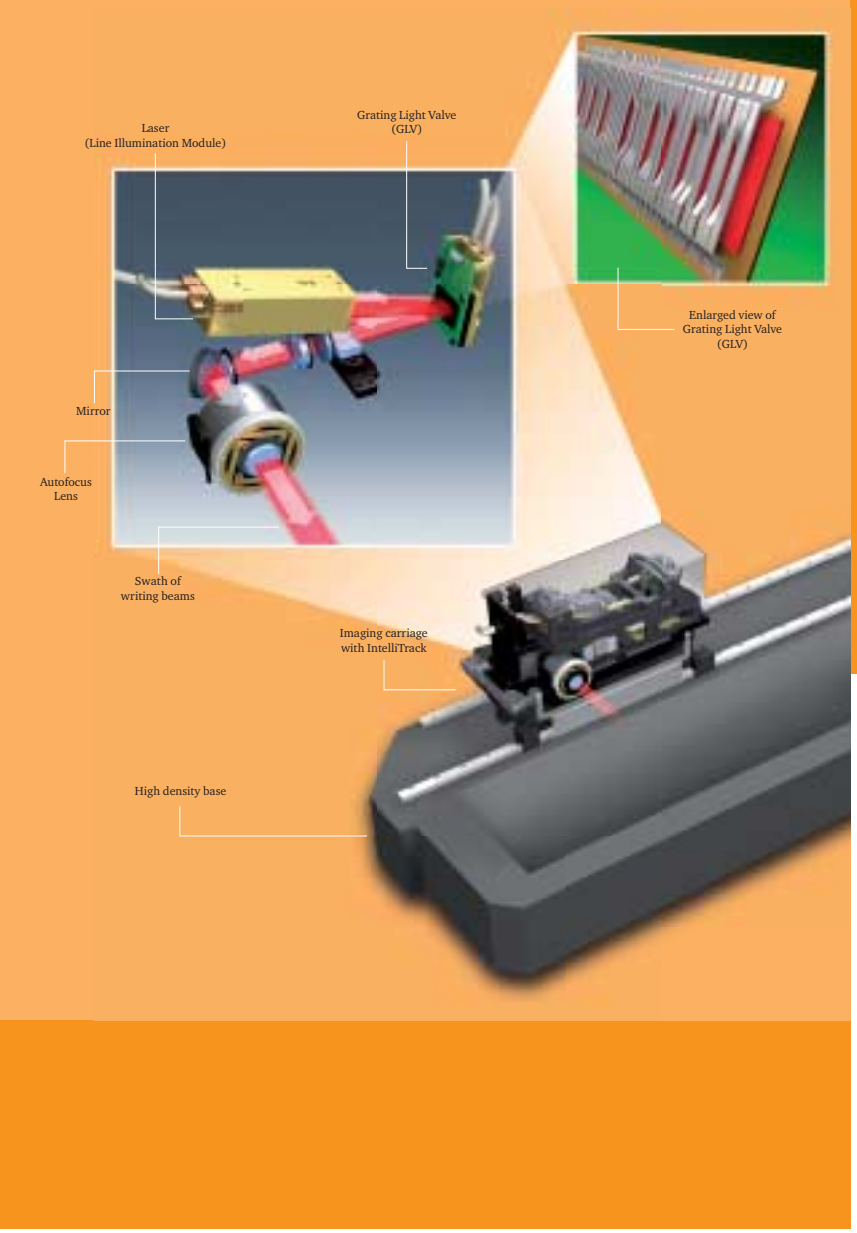
:Avalon VLF Thermal

:Avalon takes Your Operation into the Next Generation

Agfa's complete family of :Avalon platesetters brings you the format, resolutions, speed and automation you need.
Dramatic advances in imaging technology and experience in the demands of platesetting have allowed Agfa to deliver a new era of accuracy and efficiency with **:Avalon**. Agfa's HD Imaging Head, automatic calibration and an advanced operator control terminal are just a few of the new features that improve output quality, increase productivity, and ultimately, allow you to satisfy more customers more profitably.

Stay Ahead. With **:Avalon.**

AGFA



***HD Imaging Head**: Precision control of the laser beam produces exceptional tonal accuracy corner to corner, plate to plate.*

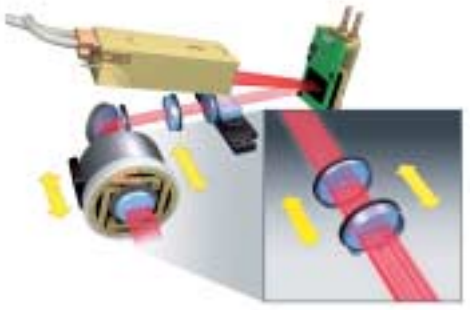
HD Imaging Head ... Proven Imaging System Gets Better

Agfa applies its unique complement of experience in imaging technology and platesetter design to deliver a new generation of imaging accuracy. :Avalon's precision imaging head produces exceptional tonal accuracy and uniformity from corner to corner, plate to plate and job to job, both with Thermal and Violet plate technology.

- **HD Imaging Head** uses a new generation Grating Light Valve™, the GLV II. GLV comprises an array of micro-reflectors. These micro-reflectors can bend to reflect the laser beams with extreme precision, delivering a multiple beam array to the plate surface. The GLV II brings even tighter tolerance with better control of the laser beams.
  The :Avalon Violet uses a variation on Agfa's HD imager found in the :Avalon Thermal engines with a proprietary imaging technique to provide the high image contrast needed for high-speed violet plates

- Writing to drum-speed ratio is very low thanks to the 512 laser beams produced by the HD Imaging Head. The low drum rotational speed simplifies operation and ensures long-term reliability.

512 laser beams enable an exceptionally fast writing speed at a relatively low drum rotational speed.



Dynamic autofocus compensates for variations that might affect Thermal plate imaging, such as plate type, thickness, drum tolerance, dust or debris.

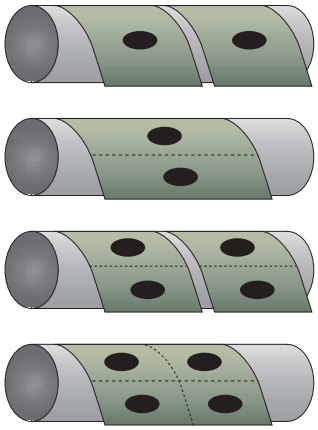
- **Dynamic Autofocus** is a continuous monitoring function that automatically compensates for any variation that might affect Thermal plate imaging such as plate type, thickness, drum tolerance, dust or debris. While imaging, the Autofocus continuously scans for irregularities and responds instantly to maintain consistent, artefact-free imaging on any plate.
  The :Avalon's slower drum speed facilitates autofocus by providing a stable platform for controlling laser performance and ensuring imaging accuracy across every millimetre of the plate.
  Violet imaging does not require Dynamic Autofocus thanks to its longer depth of focus versus Thermal lasers.
- **Constant Power Imaging (CPI)** operates the laser at the ideal energy level for absolute stability and consistent image quality.
- **Automatic Calibration** maintains laser uniformity by detecting the slightest variation and automatically recalibrating. Auto calibration works in tandem with GLV precision modulation to deliver exceptional consistency and artefact-free imaging.
- **Robust Mechanical Construction** of imaging head makes set-up easier and ensures reliable operation with minimal service intervention.
- **Precision External Drum** provides a stable surface for plate mounting, ensuring that the focus, geometry and placement of the image are all optimised for the highest possible image quality.
- **Remote Diagnostics** with IntellSyst facilitate swift machine assessment by Agfa technicians, maximising system uptime!

:Avalon

:Avalon... Designed for Convenience and Production Flexibility

Available in **SF (Small Format), LF (Large Format) and VLF (Very Large Format)** configurations, :Avalon can be customised to precisely fit your production requirements. And every size :Avalon offers features that improve your plate-making experience and accommodate your changing needs.

- **Operator Control Terminal (OCT)** lets you monitor and change plate exposure settings. In addition detailed plate-making data including plate size, plate consumption, etc. provides a convenient method for keeping track of machine productivity.
- **Extended Plate Database** with parameters such as exposure, size, drum speed, focus setting, polarity, etc. This allows :Avalon to process, consecutively, different plate types, such as chemistry-free or conventional thermal, using a single engine without having to recalibrate or intervene in any way.



Dual-plate imaging

Plate pairing

Dual pairing

Quad imaging

Thermal plate productivity with :Avalon VLF Thermal can be increased by applying the above advanced features.

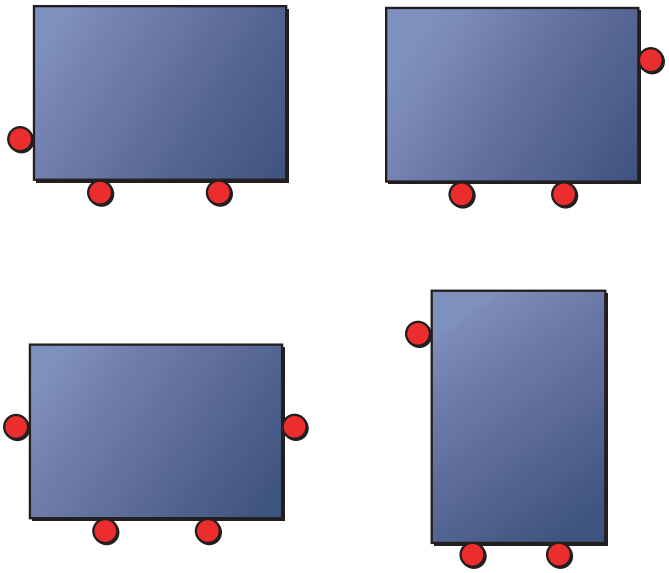
- **Over-and-Under Design** makes plate loading independent from unloading, allowing a second plate to be staged while the first is being imaged or unloaded. This gives operators flexibility as to when to load plates. Plus, they don't have to spend any time unloading. That means that the operator is not tied to the machine cycle. And because the plate is buffered inside the system, :Avalon maintains a compact footprint-an additional advantage when space is limited.
- **Flexible Design** simplifies plate making. It easily accommodates an online processor on either side of the platesetter to provide greater convenience as well as automation.

Advanced Features with :Apogee PrintDrive or :ApogeeX include:

- Web Growth Compensation compensates for paper stretch, ensuring the utmost print quality
- Digital Film Manager lets you manage plate remakes, load balancing and remote proofing
- Raster Preview lets you check the accuracy of the imposed plate before imaging
- Open Connect integrates Agfa engines in non-Agfa workflows
- InkDrive provides CIP3 support for automatic ink settings

:Avalon technologies combine to deliver impeccable quality, plate after plate

Agfa considered every design element that affects quality when engineering :Avalon. Agfa's HD Imaging Head with Auto Calibration, Dynamic Autofocus and Slow Drum Speed deliver consistent tonal accuracy and artefact-free imaging plate after plate. Machine matching, three-point Registration and IntelliTrack combined ensure geometric accuracy.



Three-point registration offers maximum accuracy and flexibility in working with different plate sizes.

- **HD Imaging Head** provides a multiple-beam array that is tightly controlled to produce laser beams at a consistent energy level and keep them sharply focused regardless of plate variations. Micro-reflectors evenly modulate and pinpoint the beams to write with repeatable precision.
- **Slow Drum Speed provides a stable platform** for laser control and autofocus functions.
- **Dynamic Autofocus** is a continuous monitoring function that automatically compensates for any variation that might affect imaging.
- **Auto Calibration** ensures imaging quality that is consistent from edge to edge and plate to plate.
- **Machine Matching** is an optional feature that lets you image plates on multiple platesetters. With Machine Matching you can increase flexibility by splitting separations between platesetters. Now you can remake a plate randomly on any available :Avalon LF or VLF system.
- **Three-point registration** system provides precise registration. The plate feeds onto the drum until it makes contact with two registration stop pins that are located along the axis of the drum according to your specifications. Mount multiple sets of registration pins to accommodate your entire selection of plate sizes. The on-board laser then accurately finds the edge of the plate. This ensures accurate placement of the image on the plate.

- Digital QuickStrip (DQS) lets you make last-minute imposition changes on the fly
- DoubleBurn lets you create multiple versions of a file without re-rendering
- Plate Pairing images two flats on one plate (80" and 83")
- Dual Plate allows two plates to be imaged at once (80" and 83")
- :Alterno color conversion tool allows you to recreate spot and special colours using CMYK and only one or two additional pre-defined colours.

:Avalon Automation increases productivity to match your volume requirements

:Avalon SF, LF and VLF offer a variety of automated features designed to make the plate-production process more efficient.

:Avalon SF Thermal
Covers plate sizes for 4-up and 6-up

:Avalon LF Thermal
:Avalon LF Violet
Cover plate sizes for 8-up presses

:Avalon VLF Thermal
Covers plate sizes bigger than 8-up and as big as 2110mm x 1600mm

- **PreStaging** for manual loading allows one touch continuous loading with automatic unloading to an on-line processor.

- **Unique Internal Punching** function punches the plate before it is loaded onto the drum. Because the punches actuate while another plate is being imaged, there is minimal loss of plate throughput. Optical notch edge detection precisely positions the images in relationship to the notches for absolute registration accuracy. :Avalon LF accommodates up to four sets of punches—standard and custom.

- **Single Cassette Automation** enables JLA (job level automation). This means that with :Avalon you can accommodate varying press and volume requirements. Use a single slide-in cassette for automatic loading. Use additional cassettes to load more or different-size plates.

	SF Thermal	LF Thermal	LF Violet	VLF Thermal
Single cassette	JLA	JLA	JLA	—
Multi cassette	PlateManager	PlateManager	PlateManager	PlateManager

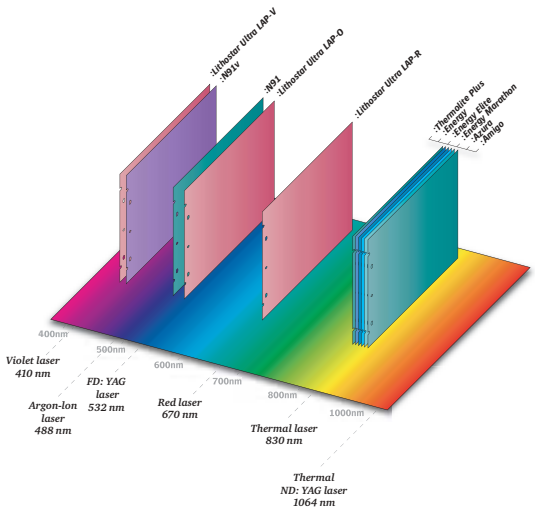
- **Multiple Cassette Automation** comes with the :Avalon PlateManager. Four cassettes allow you to keep a a number of plates online. These removable cassettes provide easy handling when you need multiple plate sizes.

Multiple Cassette Automation

Auto punching function speeds up the plate production process (LF and SF only).

:Avalon PlateManager (SF, LF and VLF) automates plate handling for maximum productivity

- **Innovative removable cassettes** are staged in a four-cassette configuration so you can keep multiple plate types online at all times. Or keep different plate sizes in multiple cassettes offline and load them as needed.
- **Intelligent automation** removes slip sheets and deposits them in a convenient slip-sheet basket. Cassettes can be loaded in any order. The system can sense when a cassette is empty and automatically switch to another cassette of the same plate type.
- **Uninterrupted operation** means you will never have to interrupt platesetting. The :Avalon VLF PlateManager loads or re-loads cassettes without stopping the platesetter. The operator can monitor plate loading at a glance from the graphical Operator Control Panel.
- **Flexible Configuration** capability lets you put the PlateManager on the left or right side of the VLF platesetter.
- **Fast Remakes** are easy—break into the middle of a job, insert the plate you need manually, or dispense it automatically from the system.
- **Manual load bypass** enables uninterrupted plate making. Should :Avalon PlateManager need to go offline or if you need to load an unusual plate size, you can feed plates manually.
- **An optional trolley** lets you transport cassettes to and from the system if desired. It's an ideal solution if you want to load plates offline in a different area, or if you are using more than four cassettes.



Innovative Plate Technology
Developed for the Work You Print

Agfa´s Digital plate assortment

We offer you a wide range of high-performance plates that match today's diverse CtP environments.

- It has both high-quality visible-light plates and thermal plates.
- The visible-light plates are based on silver or photopolymer technology.
- The Thermal plate assortment consist of conventional processing plates and the ThermoFuse Chemistry-free plates.
- This wide assortment allows you to select the technology which best fits your plate production requirements in respect of format, productivity, convenience, run length, and working environment.

:Avalon

:Avalon Support

Services designed to help you get ahead and stay ahead.

Our state-of-the-art technical and expert services extend beyond Agfa products to provide a total workflow solution-so you can operate efficiently and profitably.

- **IntelliSyst Remote Diagnostics** enables remote monitoring of critical system parameters such as the power, temperature, or available disc space and transmits the information to Agfa technicians over a secure Internet line.
- **Custom Connectivity** provides systems integration from a simple LAN to a multiple-site interactive network.
- **Continuous Improvement** programmes continually monitor and upgrade software and hardware.
- **Seamless Technical Support** diagnoses and repairs systems onsite or online, so you won't ever have to worry about missing a deadline.
- **Audits and Consultation** allow you to eliminate bottlenecks and gain workflow efficiencies.
- **Expert Training** will train your staff to understand processes so you can get more out of the equipment and more out of your people.
- **Knowledge Warehouse** provides online knowledge for troubleshooting problems quickly and effectively.
- **Shared Maintenance** program helps your technicians solve complex and specialised problems.

Agfa offers a comprehensive suite of online technical support

If you would like to receive more information about certain products, systems or tailor-made solutions, please go to **http://www.agfa.com/graphics/contact**

www.agfa.com

NGLTU GB 00200609

AGFA