

Technical infosheet

Description: ACD is a Graphic Black and White Rapid Acces Developer for Graphic Art applications, based on Hydrochinon and Phenidone developing agents in an alkaline environment specially designed for hard dot and RA film.

Applications: Used for Developing Recording-, Camera-, Contact films.

Used in combination with:

Replenisher: ACD

Fixers: G333c

Using conditions: **Dilution:** As a developer: 1 part ACD + 2 parts water
As a replenisher: 1 part ACD + 2 parts water

Developing time: 30s
Developing latitude 20 - 60s
Developing temperature: 35°C - 95°F

Replenishment: *based on at least one tank turnover per week !



| | ml/m ² | cc/sqin |
|-------------|-------------------|---------|
| 15% exposed | 100E | 0.06* |
| 50% exposed | 200E | 0.12* |
| 85% exposed | 350E | 0.2F* |

Storage conditions: always store ACD in an frost-free and dry environment. Freezing can cause precipitation

Shelf life: 36 months after manufacturing

Physical properties: Specific weight concentrate : 1.241
1+2 dilution: 1.092
pH concentrate : 10.85
1 +2dilution: 10.5

| Sales packaging: | ABC code | Packaging | Dilution |
|------------------|----------|-----------------------|------------------------|
| World ass. EFCLA | | 4 x 5 l jc | 5 l makes 15 litres |
| World ass. EKB7E | | 1 x 10 l (stack.jc) | 10 l makes 30 litres |
| World ass. EFPDB | | 2 x 200 l (container) | 200 l makes 600 litres |

Precautions: avoid contact with skin. After contact rinse thoroughly with water.
Read the MSDS (Material Safety Data Sheet)



Acorta

**Solid, versatile automatic cutting plotter
with auto recognition**

Acorta strengthens your wide-format offering by adding an additional in-house production step. The cutter's price, productivity and quality are unique and it fits in perfectly with Agfa Graphics' Jeti and Anapurna wide-format inkjet printers, as well as with the dedicated wide-format workflow software Asanti. This integrated solution approach guarantees higher productivity and therefore a higher return on investment.

Acorta

Acorta with auto recognition system. Simplicity at a glance.



Acorta cut-out model

Acorta is an automatic cutting and finishing plotter dedicated to respond to the requirements of the cardboard, digital printing and signage industries. It helps sign and display companies turn a wide variety of rigid and flexible sheet media into POP/POS materials, decoration, containers, banners etc. in a way that will make you truly stand out.

The Acorta uses an innovative auto recognition system to automatically recognize the printed images and reference points. The flexible finishing system reduces costs whilst offering maximum versatility for both short and complex production runs. The unparalleled cutting speeds of up to 102 m/min increase your productivity, with maximum automation of the production process and minimum operator intervention.



Acorta engine in action

KEY BENEFITS

- Integrated automatic recognition of printed images and reference points
- Working surface made up of 40 individual vacuum sectors activated automatically as necessary
- Solid cellular steel structure to assure correct cutting and milling without vibration or bending
- Multi-tool cutting head for cutting, creasing and milling materials up to 50 mm thick
- Multi-batch cutting possible to cut diverse substrates simultaneously
- Automatic tool pre-setting
- Video projection system to optimize material yield
- Cutting speed up to 102 m/min, acceleration 1.4 G
- Auto-height recognition of substrates



Acorta. For a higher productivity.

Automatic recognition. Visible innovation.

Thanks to the innovative detection system, you can simply position the sheet freely on the working area, without any restrictions. A camera recognizes the printed images and loads the relative cutting files and identifies the position of the reference points – completely automatically. A simple click is all it takes to start cutting.

Multi-tool cutting head. Versatility is key.

Every job requires a dedicated tool. The multi-tool head can fit different tools for different materials. It is possible to work different materials simultaneously thanks to the vast selection of flexible functions.

Speed. Cut your working times.

With cutting speeds of up to 102 m/min, the Acorta's performance is unique. In addition, it is easy to use and flexible with fewer delays during production, lower labor costs and faster completion of individual jobs. In short, it delivers greater profitability for your business.

Acorta. For the greatest accuracy.

Machine structure. Robust build.

Solid steel structure incorporating linear and curved elements. The notably robust structure facilitates the high-quality production and working speeds.

40 vacuum sectors. Maximum stability.

Solid cellular steel structure. Up to 40 concentrated vacuum sectors are automatically activated where necessary in order to ensure maximum stability of materials.

Rack work. Clean cut.

The rack work ensures an exact positioning of the knives and thus the highest possible accuracy when e.g. cutting corners.

THE PRODUCTION PROCESS IN 6 EASY STEPS

1. The Asanti workflow software drives the wide-format printer and the Acorta.
2. Freely position the sheet on the work surface without any restrictions.
3. The auto recognition system detects the sheet position, identifies the images, loads the cutting files, and projects the image onto the substrate.
4. The correct tool is automatically selected.
5. Acorta starts the finishing process.
6. Collect the finished product.



Acorta. For convenience of use.

Asanti workflow. Integration solution.

The Acorta cutter is fully powered by Agfa Graphics' wide-format workflow software solution Asanti, which operates as the beating heart of your wide-format printing production.

Video projection. Avoiding errors.

The powerful bright high-resolution video projection system clearly projects the printed image and cutting shapes onto the sheet. This makes an easy check possible and avoids making errors.



Tools. A versatile head.

Acorta comes with a complete range of tools with an automatic pre-setting system, easy to configure depending on the material to be worked. This versatility makes it possible to cut, mill and crease different materials and applications.

Default set

- Cutting head with fixed or oscillating knife
 - electric and/or pneumatic
- Electro-spindle milling module
- Creasing wheels, with diameters up to 100 mm
- Peeling module (kiss cutting)
- 45° knife (other cutting angles also available)
- Pen module
- Laser pointer

Options

Wide variety of tools available for specific cutting work:

- Different cutting angles
- Adapted mills, knives and creasing tools



Materials. Flexibility to support you.

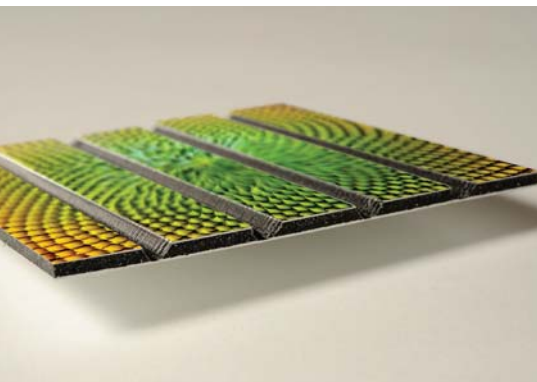
Acorta is able to cut a wide variety of materials, finishing each shape with extreme precision.

- Forex
 - Dibond
 - PVC
 - Plastics
 - Films
 - Re-board
 - Card and cardboard boxes
 - Corrugated cardboard
 - Foam, up to 50 mm in height
- ... and many more.

Applications. Material takes shape.

No limits to your productivity. Thanks to Acorta's extraordinary flexibility you can now meet even the most diverse requirements of your customers.

- Packaging
 - POS displays
 - Transparent containers
 - Advertising banners
 - Folders and binders
 - Boxes
 - Promotional trade fair stand panels
 - Promotional flags
 - Brochure holders
- ... and many more.





| TECHNICAL INFORMATION | Acorta HS 3120 | Acorta HS 2016 |
|---------------------------------|--|--|
| Working area (mm) | 3100 X 2000 | 2000 X 1600 |
| Suction sectors on working area | 40 | 20 |
| Machine dimensions (mm) | 4700 x 3250 | 2850 x 2850 |
| Machine height (mm) | 3400 | 3150 |
| Working area height (mm) | 900 | 900 |
| Weight (kg) | 3000 | 2000 |
| Electric power supply | N400V Y / 50Hz / 11KW N400V Y / 60Hz / 13KW | N400V Y / 50Hz / 11KW N400V Y / 60Hz / 13KW |
| Pneumatic power supply | 8 bar 600l/min | 8 bar 600l/min |



Advantage N

**A Greater Advantage
More Productive
More Reliable. More Affordable.**

Advantage N



An Advantage to Meet Every Need

We have taken the best features of our previous generation CtP systems—Polaris and Advantage—and added greater productivity, reliability and ease of use, and made it more affordable to give you an even greater advantage—Advantage N. Combining high-quality standards with violet imaging technology, the Advantage N addresses the needs of large, medium and small-volume printers with a choice of plate loading mechanisms and various plate throughput speeds.

All Advantage N units offer violet-laser imaging technology that can image both conventional and chemistry-free plates, giving you greater processing flexibility.

Advantage N is designed to meet the needs of every type of operation—from the smallest local newspaper printer to the most demanding high-volume printer. The Advantage N family of CtP engines offers the widest range of throughput speeds matching every production requirement, and accommodating plate sizes from 275 x 451 mm (10.82" x 17.75") to 1250 x 710 mm (45" x 27.95").

Key Benefits

- Violet-laser imaging provides fast and reliable platemaking, allowing you to meet tight deadlines. And, it offers the lowest cost of ownership.
- Short production cycles let you extend editorial and advertising deadlines.
- So you will be able to deliver the latest news and last-minute offers to your daily readers.
- Automation yields consistent quality with fewer remakes and less wasted material.
- Robust design and fewer moving parts result in minimal maintenance requirements and less downtime.

More Productive

Perfect Plate Transport and Handling

The combination of the Advantage N patented FlexWheel® and FlexPin® guarantee a perfect, fully automatic and format-independent 3-point registration. After registration, the high-precision drive system accurately transports the plates. And thanks to the integrated air bed, it transports them smoothly under the exposure head to avoid scratching. For added convenience and carefree operation, air cushions at both sides of the exposure head neutralize any possible external vibrations. So the Advantage N can be installed close to the printing press with no risk of compromising image quality. A patented Slip Sheet Removal System removes the interleave paper and drops it into a paper bin.



Advantage N-SA

Absolute Integration and Ease of Use

Using a Gigabit Ethernet connection, the Advantage N engines integrate into any business network environment as easily as a simple printer. The Advantage N browser-based User Interface (UI) can reside on any computer in the network and/or on the optional engine display (via VSN connection). Using the password-protected UI the operator can access the engine, media settings and control the production. The service engineer can download upgrades and perform service remotely. All I/O and motor controls are connected through the newest CAN Bus technology. An EXT industrial single board controller centralizes all controls on a single PC board allowing fast connection between the different modules, easy diagnostics, fewer spare parts, less cabling and higher reliability.

Unprecedented Advantage: Full Autonomy up to 1600 plates, up to 3 plate formats and speed up to 400 plates per hour.

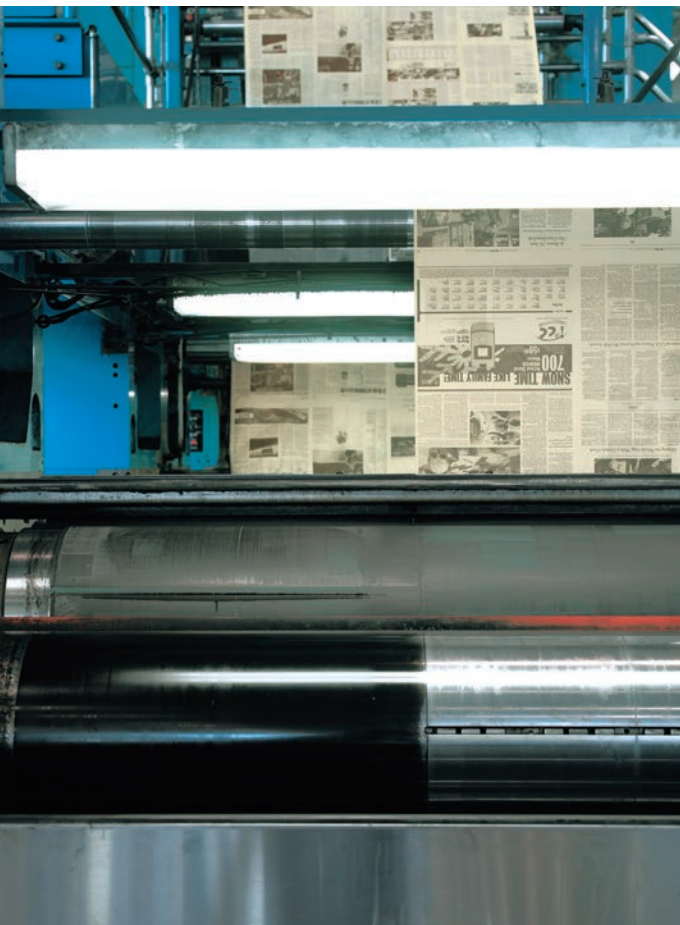
The Advantage N-DL and N-TR set new standards for newspaper production. With the ability to image up to 1600 plates continuously at a throughput speed of up to 400 pph, Agfa Graphics gives newspaper printers a complete new level of automation and productivity. The Advantage N-TR targets printers who use different plate formats and will benefit from the full flexibility with additional trolleys. High plate throughput allows to produce more plates in the same time or to meet your peak production in case of tight deadlines. Choosing a system with higher plate throughput eliminates the need for multiple systems saving floor space and money.



Advantage N-TR

| Engine Type | Throughput speed in pph (depending on resolution and plate size) |
|-----------------------|--|
| Advantage N-SA | Up to 75 |
| Advantage N-SL | 100 |
| Advantage N-DL/TR | 100 |
| Advantage N-DL/TR S | 150 |
| Advantage N-DL/TR XT | 220 |
| Advantage N-DL/TR XXT | 300 |
| Advantage N-TR HS | 350 |
| Advantage N-TR VHS | 400 |





More Reliable. More Affordable

Built-In Fail-Safe Systems

The highly intelligent Advantage N automatically checks the plate level and immediately informs the operator when the engine is about to run out of plates. It also searches for damaged plates and forgotten card board, and dumps them into an integrated dump area to avoid any possible damage to the CtP engine or the online processor. Agfa Graphics' patented Arkitex PowerWedge® replaces the analog calibration procedure with a simple digital one, eliminating the need to manually check the correct exposure level.



Advantage N-DL has the ability to image up to 1500 plates continuously at a throughput speed of up to 300 pph, depending on resolution and plate size.

Higher Quality and Greater Stability

The Advantage N has a new exposure head that has a very compact, extremely solid casting house to protect the optics and guarantee high stability. Widely accepted as the industry standard for newspaper plate production, the violet-laser diode provides a lifetime of use combined with the lowest cost of ownership.

Agfa's unique 670 nm reference laser beam in combination with a grating scale bar continually checks the laser position ensuring absolute exposure linearity. Pulse Width Modulation and Amplitude Modulation adjust the laser settings to image even the finest details and the most demanding fonts (e.g. Kanji), and ensure perfectly even tints across the entire image. Every Advantage N engine offers by default resolutions from 900 – to 2450 dpi and can image both ABS and Sublima screening. In combination with the zoomable spot size, this delivers photo-like print quality for all newspaper or semi-commercial applications. So there is no need to invest in additional quality upgrades.



All Advantage N engines offer an identical output quality; the only differences are the production speeds and degree of automation.

Whether you use the Advantage N-SA (semi automatic) engine or the top end Advantage N-TR VHS (full-automatic - 400 pph) makes no difference on the output quality. Advantage N is built around a modular concept. This means amongst others that the imaging part is identical for all engines: same laser, optics and High-Precision Drive System. This allows to combine different Advantage N engine types (i.e. for backup reasons) while still being sure that your output quality is identical.

Infrared camera

An optional infrared camera can be mounted inside the engine's plate transport and imager part. This allows you to monitor what is happening inside the engine during production. It can also be used in combination with Agfa Graphics' TeamViewer for remote servicing.



Arkitex Enhance Vantage: intelligent Enterprise Health Monitoring

By default every Advantage N engine (except Advantage N-SA) is pre-configured to be connected to the Agfa Vantage Enterprise Health Monitoring software. Vantage is a simple '1-screen tool' to monitor your complete CTP system: Advantage N + processor/COU + punch and bender + software. Arkitex Enhance Vantage gives you an early indication of potential issues. This allows you to fix a problem before it becomes critical.

TeamVieweer: Worldwide Remote Service and Support

TeamVieweer automatically sends an alert notification to the Agfa service team without requiring your intervention. This allows rapid service response times and after-hours support capabilities. Via TeamVieweer software updates can be uploaded timely and secure.

Complete Platemaking Solutions, All From One Single Supplier

Agfa is the only manufacturer that is capable to offer you a complete platemaking solution all out one hand: CtP, plates, processor, clean out unit, workflow and press room chemistry. By having the full R&D under 1 roof, Agfa's engineers can focus on a seamless integration and optimization of all the components of the production.



| Characteristics | Advantage N-SA (Semi-Automatic) | Advantage N-SL (Stack Loader) | Advantage N-DL (Direct Load) | Advantage N-TR (Trolley Load) |
|---|---|--|---|---|
| Max. plate size | 1143 x 710 mm (45 x 27.95") | | 914 x 710 mm (35.98 x 27.95") (DL/TR Standard) 1250 x 710 mm (49.21 x 27.95") inch(DL/TR Extended) | 914 x 710 mm (35.98 x 27.95") (DL/TR Standard) 1250 x 710 mm (49.21 x 27.95") inch(DL/TR Extended) |
| Min. plate size | 275 x 451 mm (10.82 x 17.75") | | | |
| Plate thickness | 0.20 - 0.40 mm / 8 - 16 mil | | | |
| Resolution | 900 - 2540 dpi | | | |
| On-line plate capacity | N/A | 120 | up to 1500 | up to 1600 |
| Plate types supported | Photopolymer (Conventional and chemistry-free) or silver halide (XXT is Photopolymer only) | | | |
| Plate formats supported | Up to 100 | | | |
| Plate formats supported on-line | N/A | 1 + manual bypass | 1 + 2 optional | 1 + 2 optional |
| Automatic slip sheet removal | N/A | Yes | | |
| Plates/hour | 75 (operator dependable) | 100 | up to 300 (*) | up to 400 (*) |
| On-line processor | Yes | | | |
| Safelight for plate loading | Yellow / TR trolley can be transported to the yellow light room | | | |
| Operating safelight | Yellow | Yellow (Daylight with optional daylight cover) | Daylight | |
| Upgrade options | | | | |
| Display on pivoting arm | Factory option + Field upgradable | | | |
| Mirrored registration | Factory option + Field upgradable | | | |
| Daylight cover | N/A | Factory option + Field upgradable | N/A | N/A |
| Infrared Camera | Factory option + Field upgradable | | | |
| Arkitek Enhance Vantage | Factory option + Field upgradable | Factory built-in | | |
| Productivity upgrades | N/A | N/A | +50 / +120 / +200 | +50 / +120 / +200 Advantage N-TR HS is by default 350 pph, but upgradeable to 400 pph (Advantage N-TR VHS) |
| Additional trolleys | N/A | N/A | N/A | Yes |
| Power supply | 10A 230V (50/60 Hz) | | | |
| Air supply | 5,5 - 6,8 bar | | | |
| Operating conditions | Operating temperature: 18 - 23°C (64,4 - 73,4°F) 40% - 60% Outside of this range may affect performance | | | |
| Footprint dimensions (Standard) Width: Length: Height: | 1165 mm (45,87") 2392 mm (94,17") 1475 mm (58,07") | | 1245 mm (49,02") 3536 mm (139,23") 1700 mm (66,93") | |
| Footprint dimensions (Extended) Width: Length: Height: | N/A | N/A | 1245 mm (49,02") 3950 mm (155,51") 1700 mm (66,93") | |

(*) depending on resolution and plate size



:AGORA UV INKS

The Next Generation of Performance in high speed UV printing compatible with the next generation printheads.

Designed for perfect compatibility with new high speed piezo print heads at speeds of up to 100 meters per minute, :Agora inks outperform all other UV inks in their category.

:Agora inks are highly recommended by many press manufacturers that work with these latest generation high-speed, high-resolution print heads.

:Agora UV inks cure instantly allowing them to print on the widest array of printing substrates — foils and laminates, coated paper, industrial film, PVC, PET, folding cartons, heavy stocks and more — with the most vivid color.

In comparison to other UV inks, :Agora delivers proven results: excellent jetting performance, the lowest ink consumption, the widest color gamut, outstanding dot integrity, the toughest durability, a high shelf life and the lowest environmental impact.



:Agora UV Ink for new high speed Print Heads.

Printing Flexibility

:Agora inks are UV curable, solvent-free inks that are applied in one pass. These highly sensitive inks cure instantly, which allows them to print on an unlimited number of substrates. These include foils and laminates, coated paper, industrial film, PET, PVC, PE, PP, BOPP, folding cartons, even very heavy stocks.

Perfect Dots

:Agora inks have an optimal jetting performance and jetting reliability. The result is perfect dot placement and high dot integrity. The dots that appear on the final product are exactly as they were applied, simulating the print quality of traditional printing methods.

Low Viscosity

Next generation high-resolution print heads require ultra low viscosity inks. Agfa developed dedicated monomers and photo-initiators to deliver ultra low viscous UV inks. Agfa's :Agora inks are the only UV inks available today which feature high reactivity and ultra low viscosity capable of printing low drop volumes with a high dot accuracy.

UV LED Curable

:Agora inks are curable by LED light at all available wavelengths and come with a 12-month shelf life from the date of manufacture. Because of the instant curing, they deliver amazing eye-catching color on a wide range of print substrates without any ink bleeding.

Lowest Ink Consumption

Agfa inks have a very high pigment load and a wide color gamut. Moreover, the :Agora ink set contains color-neutral black inks, no extra colors are needed to make deep, neutral blacks. And that means that :Agora inks have the lowest ink consumption of all inkjet inks.





Widest Color Gamut

Despite :Agora's low ink consumption, its color gamut is very wide. The pigments used in :Agora UV inks have been carefully selected for a good balance between color gamut and outdoor light fastness. They deliver rich, vivid colors that other printing processes simply cannot match.

Extremely Durable

:Agora inks feature excellent chemical and abrasion resistance. They are the toughest and most durable of inks, making them resistant to scuffs and scratches.

Environmental Advantages

Because :Agora is UV as well as LED curable, it contains no solvents and no VOCs. It is low-odor and it can be de-inked from coated paper without pretreatment.

Limitless Applications for industrial inkjet.

:Agora inks are suitable for a wide variety of applications.

- Label printing
- Monochrome coding and marking, direct to print
- Document and commercial printing: envelopes, magazines, promo leaflets, etc. Blister pharma packaging
- Card printing (credit cards, gift cards, ...)
- Flexible packaging and folding cartons
- Pressure sensitive label printing on different substrates
- Banners and outdoor displays
- Commercial & bookprinting



:Agora UV Ink for new high speed Print Heads.

FEATURES

- Compatible with most of the recently launched high speed single pass UV print heads (Kyocera, Xaar, TTEC, Konica Minolta, Ricoh Gen 4,...)
- Precise, high Integrity dots
- Ultra Low viscosity
- Instantly UV Curable for vivid colors and printing on a wide variety of substrates
- Highest pigment load = lowest ink consumption (3 - 6 gr/m²)
- Widest Color Gamut
- Extremely Durable
- Environmentally Friendly (no solvents, no Volatile Components inside)

APPLICATIONS

- Label printing
- In line marking and coding
- Pharma blister
- Transactional, envelope, form and ticket printing
- Card printing: credit cards, gift cards, etc.
- Flexible and folding carton packaging
- Commercial printing
- Decoration: CD, floor, furniture, etc.
- In-mould decoration
- UV book printing
- Sign & Display

COLOR GAMUT

- :Agora inks are available in CMYK, White, Red, Blue and several spot colors
- Fogra 39 ISO Coated standard

LIGHT FASTNESS

- The :Agora pigments were selected to have a good balance between color gamut and outdoor resistance especially for Sign & Display applications.

CURING

- 100 m/min with conventional UV curing systems
- 50 m/min with LED

SUBSTRATE FLEXIBILITY

(AN INDICATIVE LIST OF VALIDATED SUBSTRATES)

- Coated paper: G-Print (Arctic Paper)
- Folding carton: Invercoat Creato (Iggesund Paperboard)
- PET: Essense UV (Agfa Materials)
- HiFi PMX 749 (HiFi Industrial Film)
- PVC: Metamark MD5 (Metamark UK LTD)
- Oracal 1610 (Orafol Europe GmbH)
- PE: Fasson PE85 White (Avery Dennison)
- PP: Herma PP white tc (Herma GmbH)
- BOPP: Rayoart CGS 92 (Innovia Films)

SHELF LIFE

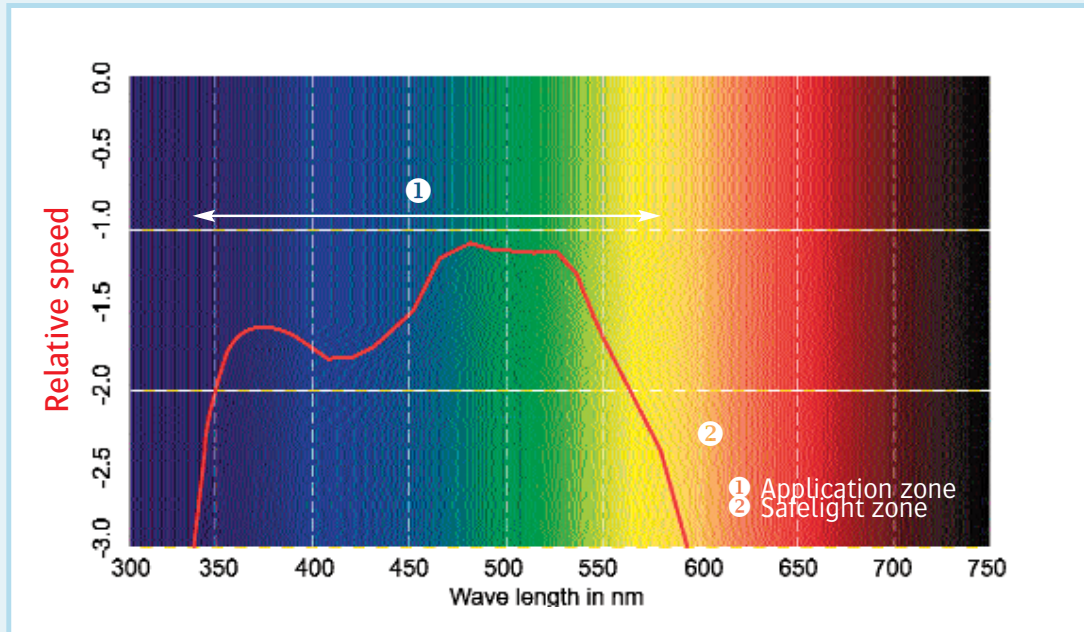
The shelf life of the :Agora inks is 12 months after manufacturing.

Technical Info sheet

Product features

Description:

- * Alliance Camera CE is an orthochromatic film, specially developed for line art applications
- * Alliance CE is an universal type and can be developed in RA-and Lithchemistry



- * Emulsion coated on a 0.10 mm (0.004 inch) thick polyester base

Features

- ◀ High photographic speed
- ◀ Steep gradation and gradation toe
- ◀ Excellent dot-and line sharpness (specially when developed in lith)
- ◀ Wide exposure latitude
- ◀ Low minimum density and good UV-transmission
- ◀ Faithfull reproduction of the original
- ◀ High maximum density
- ◀ Anti-static layer for dust-free handling

Film handing

| | |
|---------------|----------------------|
| Camera | RPS 2024 |
| Line exposure | scale 1:1 - f22 |
| Exposure time | 9 s |
| | 12s in lith process. |

Processing

| | |
|-------------|-------|
| Chemistry : | G101c |
| Time : | 25sec |
| Temp : | 35°C |

Photograp. prop.

| | |
|-----------------|------|
| D.Max : | 4.85 |
| D.Min : | 0.03 |
| Gradation toe : | 2.50 |
| Gradation : | 9.5 |

Chemical set-up

User guidelines

Processing conditions :

Agfa developers

ACD/ASD

G101c

Recommended processing time

30 sec.

Processing latitude

25 - 40 sec.

Processing temperature

35°C or 95°F 26°C or 79°F




Tray 21°C/70°F*

Developer replenishment

ACD/ASD

G101C



 15% exp. :
 50% exp. :
 85% exp. :

100 ml/m²

200 ml/m²

350 ml/m²

Anti-Ox replenishment

1000 ml/24h

Agfa fixers

G333c/G333p

Fixing temperature




35°C or 95°F

G333c/G333p

Fixer replenishment



without fixer electrolysis

 15% exp. : 250 ml/m²
 50% exp. : 500 ml/m²
 85% exp. : 875 ml/m²

with fixer electrolysis

250 ml/m²

Safelight conditions: Red light. Recommended : EncapSulite R10 or 1A safelight filter

Storage: The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

Machine processing : All graphic processors

* In tray

Developing R.A. developers G101c or ACD/ASD (dilution 1+2) : 21°C continually agitated

Optimum processing time : 60s (latitude 45 - 85s)

Fixing G333C/P : 21°C - continually agitated - Min. fixing time : 2 min

Washing 5 min in running water - Shorter washing times reduce the lifetime of the developed film

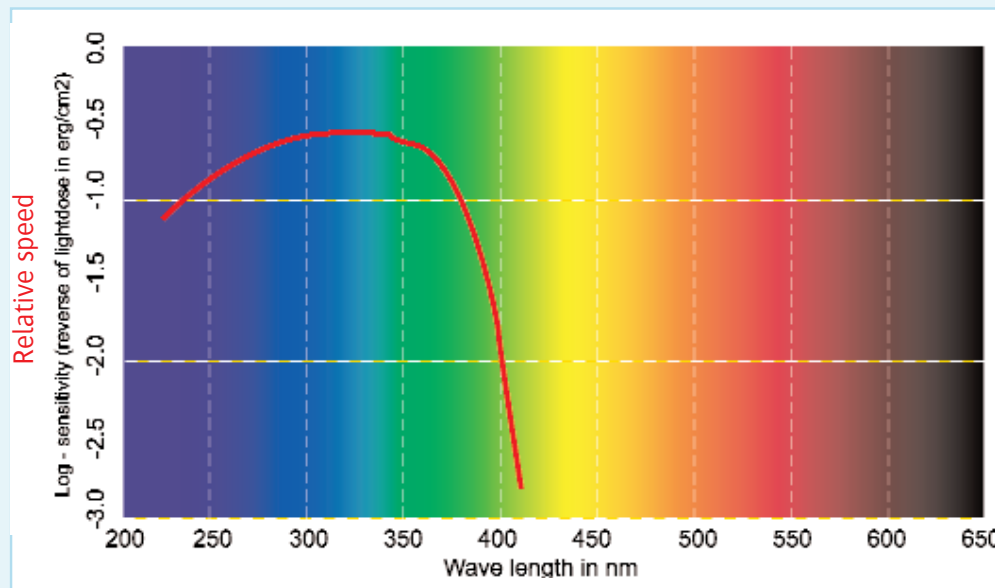
Technical Info sheet 1/2

Product features

Description :

Alliance DL is a UV-sensitive negative contact films for handling in UV-poor or subdued daylight. These "general purpose" films provide good dot for dot quality (emulsion/emulsion or out of contact) and are also special qualified for dry-/wet-etching.

This film can be developed in most Rapid Access and lith developing systems.



Features

- ◀ Excellent roomlight convenience
- ◀ High maximum density at dot for dot (E/E & E/B).
- ◀ Medium exposure latitude, ideal to make tone or colour corrections.
- ◀ Quick spreads & chokes
- ◀ Low minimum density and good UV transmission.
- ◀ Antistatic layer for dust-free handling.
- ◀ Excellent dimensional stability.
- ◀ minus : - sensitive to moisture : speed loss at high humidity.

Film handling

1000 Watt metal halide lamp with high UV-A light intensity like Agfa CDL-contact frame.
Indicative exposure time dot for dot :
10 sec at level 1.

Processing

Chemistry : ACD
Time : 30sec
Temp : 35°C



Photograp.prop

D.Max : 4.30
D.Min : 0.040
Gradation toe : 1.8
Gradation : 7.0

Processing. : Alliance Contact DL is appropriate for processing in machine or in tray

Chemical set-up 2/2

User guidelines

| | | | | | | | | | | |
|--|--|-----------|------------|-----------|----|------------|-----------|-----|------------|-----------|
| Processing conditions : | | | | | | | | | | |
| Agfa developers (All Rapid Access processors) | ACD/ASD G101C | | | | | | | | | |
| Recommended processing time | 30 sec. 30 sec. | | | | | | | | | |
| Processing latitude | 20 - 40 sec. | | | | | | | | | |
| Processing temperature | 35°C or 95°F | | | | | | | | | |
| Developer replenishment | ACD/ASD /G101C | | | | | | | | | |
| |  <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td style="padding-right: 5px;">☼</td><td>15% exp. :</td><td>100 ml/m2</td></tr> <tr><td style="padding-right: 5px;">☼☼</td><td>50% exp. :</td><td>150 ml/m2</td></tr> <tr><td style="padding-right: 5px;">☼☼☼</td><td>85% exp. :</td><td>350 ml/m2</td></tr> </table> | ☼ | 15% exp. : | 100 ml/m2 | ☼☼ | 50% exp. : | 150 ml/m2 | ☼☼☼ | 85% exp. : | 350 ml/m2 |
| ☼ | 15% exp. : | 100 ml/m2 | | | | | | | | |
| ☼☼ | 50% exp. : | 150 ml/m2 | | | | | | | | |
| ☼☼☼ | 85% exp. : | 350 ml/m2 | | | | | | | | |
| Anti-Ox replenishment | 1000 ml/24h | | | | | | | | | |
| Agfa fixers | G333c | | | | | | | | | |
| Fixing temperature | 35°C or 95°F G333c/G333p | | | | | | | | | |
| Fixer replenishment | without fixer electrolysis | | | | | | | | | |
| |  <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td style="padding-right: 5px;">☼</td><td>15% exp. :</td><td>250 ml/m2</td></tr> <tr><td style="padding-right: 5px;">☼☼</td><td>50% exp. :</td><td>500 ml/m2</td></tr> <tr><td style="padding-right: 5px;">☼☼☼</td><td>85% exp. :</td><td>875 ml/m2</td></tr> </table> | ☼ | 15% exp. : | 250 ml/m2 | ☼☼ | 50% exp. : | 500 ml/m2 | ☼☼☼ | 85% exp. : | 875 ml/m2 |
| ☼ | 15% exp. : | 250 ml/m2 | | | | | | | | |
| ☼☼ | 50% exp. : | 500 ml/m2 | | | | | | | | |
| ☼☼☼ | 85% exp. : | 875 ml/m2 | | | | | | | | |
| | with fixer electrolysis 250 ml/m2 | | | | | | | | | |

| | |
|-------------------|--|
| In tray | |
| Developing | Rapid Access developers (dilution 1+2), temperature 21°C, continually agitated. Optimum processing time : 60s. |
| Fixing | Rapid Access fixer (dilution 1+4), temperature 21°C, continually agitated. Minimum fixing time: 60s. |
| Washing | 5 min. in running water. Shorter washing times reduce the lifetime of the developed film. |

Safelight conditions : Alliance DL can be handled in UV-poor subdued daylight.
No need of UV-absorbing filters.

Storage : Cool and dry place at temperature below 20°C (68°F) and at relative humidity ranging between 30% and 60%.

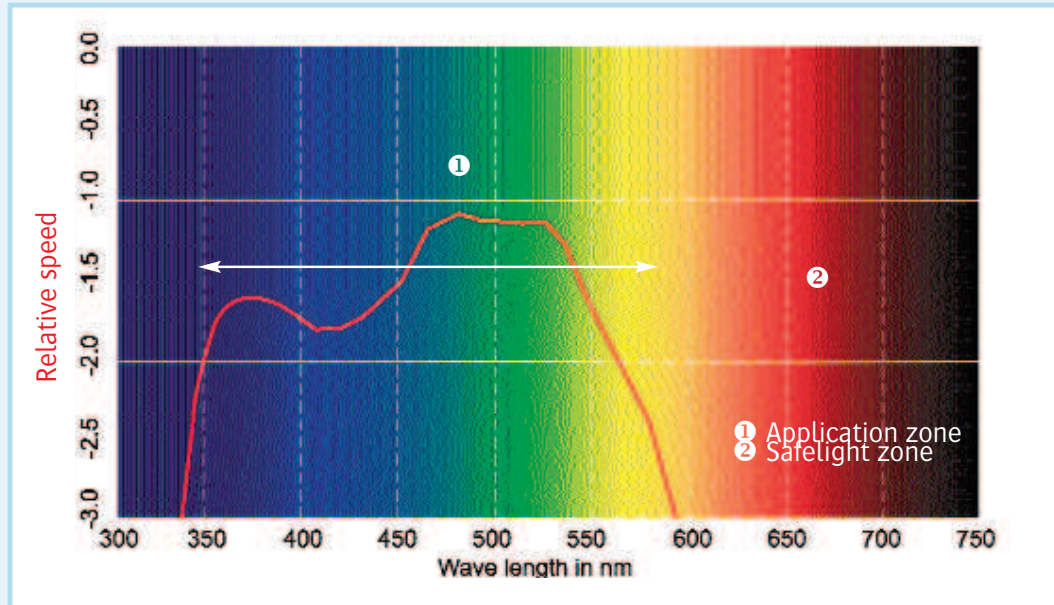
Reducing : According to Farmer formulae (e.g. GP506) and most cerium-sulfate based reducing agents (Senelith)

Technical Info sheet 1/2

Product features

Description:

- * DigiDot I-CQ is an orthochromatic high speed camera film
- * New open system generation hard dot premium quality films with extremely high sharpness
- * Emulsion coated on a 0.10 mm (0.004 inch) thick polyester base



Features

- ◀ High photographic speed
- ◀ Very steep gradation and gradation toe
- ◀ Exceptional dot-and line sharpness
- ◀ Wide exposure latitude and development latitude
- ◀ Low minimum density and good UV-transmission
- ◀ Faithfull reproduction of the original
- ◀ High maximum density
- ◀ Anti-static layer for dust-free handling
- ◀ Anti-stress layer to protect against scratches and other damage
- ◀ Special layer in the emulsion to prevent Newton rings
- ◀ Open system: perfect processing in compatible chemestries

Film handing

Camera: RPS 2024
 Line exposure: scale 1:1 - f22
 Exposure time: 8 s
 Exp. through back: 20s

Processing Photograp.prop

Chemistry : ACD D.Max : 4.60
 : G101c D.Max : 4.50
 Time : 30sec D.Min : 0.03
 Temp : 35°C Gradation toe : 6
 Gradation : 25

Technical Info sheet 2/2

User guidelines

Processing conditions :

Agfa developers

(All Rapid Access processors)

Recommended processing time

Processing latitude

Processing temperature

Developer replenishment

Anti-Ox replenishment

Agfa fixers

Fixing temperature

Fixer replenishment

ACD/ASD

G101c

30 sec.

25 - 40 sec.

35°C or 95°F

ACD/ASD/G101c



| | | |
|------------|-----------|--------------|
| 15% exp. : | 150 ml/m2 | 0.10cc/sqin. |
| 50% exp. : | 250 ml/m2 | 0.16cc/sqin. |
| 85% exp. : | 425 ml/m2 | 0.27cc/sqin |

2000ml/24h (shallow tank)

1000 ml/24h (deep tank)

G333c

35°C or 95°F

G333c/G333p

without fixer electrolysis



| | |
|------------|-----------|
| 15% exp. : | 875 ml/m2 |
| 50% exp. : | 500 ml/m2 |
| 85% exp. : | 250 ml/m2 |

with fixer electrolysis

250 ml/m2

In tray

Developing All developers ACD/ASD/G101c : 21°C - continually agitated

Optimum processing time : 2'30" (latitude 1'30" - 4'00")

Fixing G333C : 21°C - continually agitated - Min. fixing time : 2 min

Washing 5 min in running water - Shorter washing times reduce the lifetime of the developed film

Safelight conditions: Red light. Recommended : EncapSulite R10 or 1A safelight filter

Storage: The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

Machine processing : All graphic processors

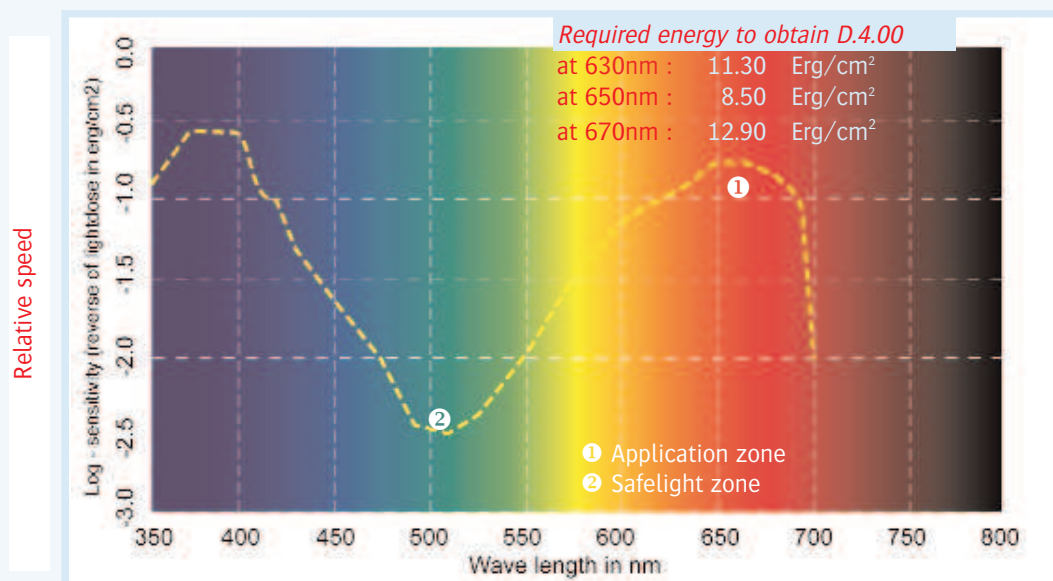
630 -670nm

Product features



Description:

- * DigiDot Far Red films I-FRM and I-FR7M
- * Spectral sensitivity: HeNe-laser and extended red laserdiode (630 - 670 nm)



- * Emulsion coated on a 0.10 and 0.18mm polyester base
- * The matte films are approved for exposure of photopolymer plates.

Features

- ◀ Perfect "hard dot" edge sharpness and very high practical density
- ◀ Open system: hard dot quality even in rapid access chemistry systems
- ◀ Wide System latitude: wide processing and exposure latitude
- ◀ Low dot shift in plate copy
- ◀ Good batch-to-batch consistency
- ◀ Convenience and ease of use because of available ECO equipment
- ◀ Low chemistry consumption
- ◀ Linear output for conventional screening & stochastic screening
- ◀ Recommended Film for **:Sublima for Flexo** screening
- ◀ Anti-static before and after processing

User guidelines



Processing conditions

Agfa developers

Recommended processing time
 Processing latitude
 Processing temperature

ACD/ASD - G101c

30 sec.
 30 sec - 60sec.
 35°C or 95°F

Developer replenishment



ACD/ASD - G101c

| | | | |
|--|------------|-----------------------|--------------|
| | 15% exp. : | 150 ml/m ² | 0.10 cc/sqin |
| | 50% exp. : | 250 ml/m ² | 0.16 cc/sqin |
| | 85% exp. : | 425 ml/m ² | 0.27 cc/sqin |

Anti-Ox replenishment

< 10 m² / 24 hours : 2000 ml / 24 h
 > 10 m² / 24 hours : 1000 ml / 24 h
 Machine width > 125cm : 3000 ml / 24 h

Agfa fixers

Fixing temperature

G333c

32°C or 90°F

Fixer replenishment



G333c

without fixer electrolysis

| | | | |
|--|------------|-----------------------|--------------|
| | 15% exp. : | 500 ml/m ² | 0.32 cc/sqin |
| | 50% exp. : | 300 ml/m ² | 0.19 cc/sqin |
| | 85% exp. : | 100 ml/m ² | 0.06 cc/sqin |

with fixer electrolysis

125 ml/m² 0.08 cc/sqin

Practical Set-up Density*:

In ACD >D5.00 (dotgain depending on optical quality of imagesetter)
 In G101c >D4.80 (dotgain depending on optical quality of imagesetter)

Chemical compatibility:

Processable in all Rappid Access chemestries & main Hard Dot chemestries such as RA2000, Fuji HQ QRD-1 and QRD-1P.

Dimensional stability:

Humidity. coef: (0.10mm base) Crh 0.016mm/m / % RH
 (0.18mm base) Crh 0.012mm/m / % RH
 Temp. coef: (0.10 and 0,18mm base) Cot 0.018mm/m /1°C (0.001mm/m /1°F)

Safelight conditions:

Dark green light

Recommended:

EncapSulite T20/ND.75 or equivalent

Storage:

The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

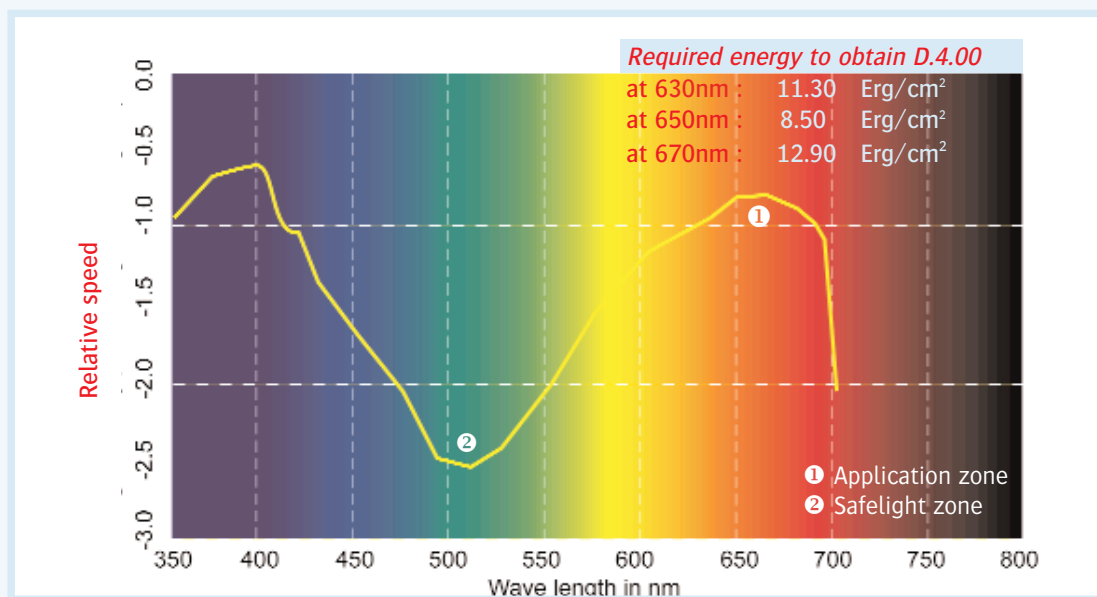
Product features

630-670nm



Description:

- * Alliance far red film
- * Spectral sensitivity: HeNe laser and red laserdiode (630-670nm)
- * Emulsion coated on a 0.10 mm antistatic polyester base.



Features

- ◀ Excellent image quality : very good sharpness and high practical density
- ◀ Very wide System latitude: Wide processing & exposure latitude
- ◀ Very good Day to day consistency
- ◀ Very good batch-to-batch consistency
- ◀ Convenience and ease of use because of available ECO equipment
- ◀ Ecological & Economical replenishment, very Low chemistry consumption.
- ◀ Linear output for conventional screening
- ◀ Approved for stochastic screening
- ◀ Anti-static before and after processing
- ◀ Open system : perfect processing in compatible chemistries

Practical Photographic Properties

| Engine | AccuSet | | Avantra | |
|-------------------|-------------|--|-------------|--|
| Property | HNS | | HNS | |
| Int. Setting | 170 | | 230 | |
| Practical density | D.4.00-4.20 | | D.4.10-4.30 | |
| 5% | 5% | | 5% | |
| 50% | 57% | | 53% | |
| 95% | 98% | | 96% | |

User guidelines



Processing conditions

Agfa developers

Recommended processing time

Processing latitude

Processing temperature

Developer replenishment



5% exp.

50% exp.

5% exp.

ACD/ASD

30 sec.

20 - 40 sec.

35°C or 95°F

G101c

30 sec.

20 - 40 sec.

35°C or 95°F

ACD/ASD

ml/m2 cc/sqin

G101c

ml/m2 cc/sqin

50 0,03

100 0,06

150 0,10

200 0,12

250 0,16

350 0,23

Anti-Ox replenishment

1000 ml/24h = 0,264 US_gallons/24h

Agfa fixers

Fixing temperature

Fixer replenishment

without fixer electrolysis



5% exp.

50% exp.

85% exp.

G333c

32°C or 90°F

G333c

500 ml/m2 0,32 cc/sqin

300 ml/m2 0,19 cc/sqin

100 ml/m2 0,06 cc/sqin

with fixer electrolysis

125 ml/m2 0,08 cc/sqin

Practical Set-up Density:

D.4.00 - D.4.20 (dot gain depending on optical quality of Imagesetter)

Chemical compatibility:

Processable in all Rapid Access chemistries and in main Hard Dot chemistries such as RA2000, Fuji HQ QRD-1 and QRD-1P.

Dimensional stability:

Humidity. coef: 0.10mm base **Crh** 0.016mm/m / % RH

Temp. coef: 0.10mm base **Cot** 0.018mm/m /1°C (0.001mm/m /1°F)

Safelight conditions:

Dark green

Recommended: EncapSulite T20/ND.75 or equivalent

Storage:

The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

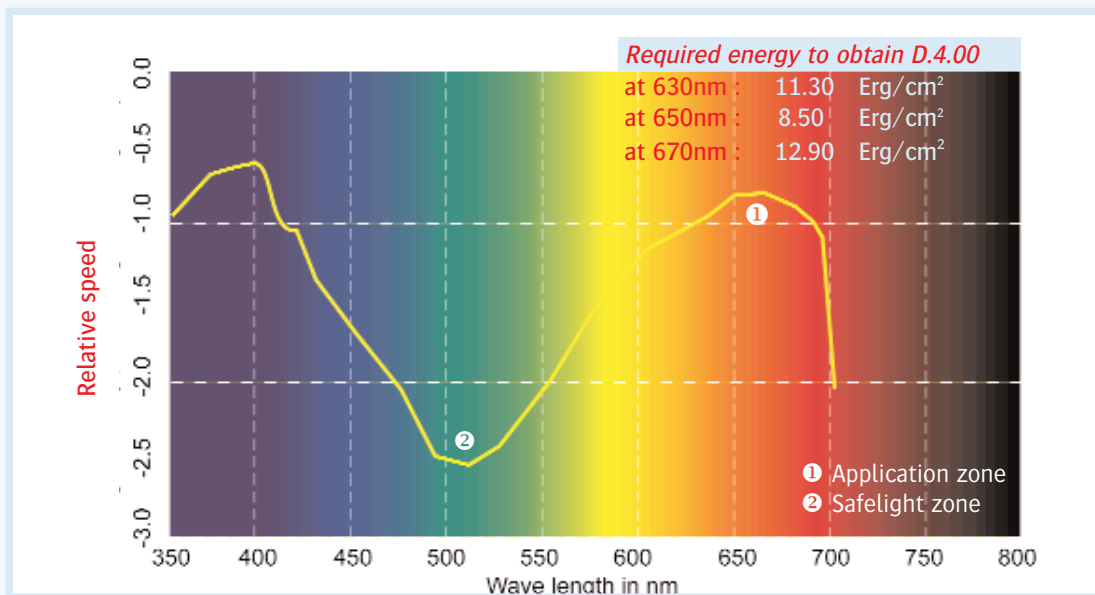
Product features

630-670nm



Description:

- * Alliance far red film
- * Spectral sensitivity: HeNe laser and red laserdiode (630-670nm)
- * Emulsion coated on a 0.10 mmantistatic polyester base.



Features

- ◀ Excellent image quality : very good sharpness and high practical density
- ◀ Very wide System latitude: Wide processing & exposure latitude
- ◀ Very good Day to day consistency
- ◀ Very good batch-to-batch consistency
- ◀ Convenience and ease of use because of available ECO equipment
- ◀ Ecological & Economical replenishment, very Low chemistry consumption.
- ◀ Linear output for conventional screening
- ◀ Approved for stochastic screening
- ◀ Anti-static before and after processing
- ◀ Open system : perfect processing in compatible chemistries

Practical Photographic Properties

| Engine | Screen Katana (2400dpi) | | Avantra (2400dpi) | |
|-------------------|-------------------------|--|-------------------|--|
| Property | HNU | | HNU | |
| Int. Setting | 180 | | 260 | |
| Practical density | D.3.80 - 4.00 | | D.3.90 - 4.10 | |
| 5% | 5% | | 5% | |
| 50% | 59% | | 55% | |
| 95% | 98% | | 96% | |

User guidelines



Processing conditions

Agfa developers

Recommended processing time
Processing latitude
Processing temperature

ACD/ASD

30 sec.
20 - 40 sec.
35°C or 95°F

G101c

30 sec.
20 - 40 sec.
35°C or 95°F

Developer replenishment

ACD/ASD

ml/m2 cc/sqin

G101c

ml/m2 cc/sqin



| | | | | |
|----------|-----|------|-----|------|
| 5% exp. | 50 | 0,03 | 100 | 0,06 |
| 50% exp. | 150 | 0,10 | 200 | 0,12 |
| 95% exp. | 250 | 0,16 | 350 | 0,23 |

Anti-Ox replenishment

1000 ml/24h = 0,264 US_gallons/24h

Agfa fixers

Fixing temperature

G333c

32°C or 90°F

Fixer replenishment
without fixer electrolysis

G333c



| | | |
|----------|-----------|--------------|
| 5% exp. | 500 ml/m2 | 0,32 cc/sqin |
| 50% exp. | 300 ml/m2 | 0,19 cc/sqin |
| 85% exp. | 100 ml/m2 | 0,06 cc/sqin |

with fixer electrolysis

125 ml/m2 0,08 cc/sqin

Practical Set-up Density:

D.3.80 - D.4.00 (dot gain depending on optical quality of Imagesetter)

Chemical compatibility:

Processable in all Rapid Access chemistries and in main Hard Dot chemistries such as RA2000, Fuji HQ QRD-1 and QRD-1P.

Dimensional stability:

Humidity. coef: 0.10mm base **Crh** 0.016mm/m / % RH

Temp. coef: 0.10mm base **Cot** 0.018mm/m /1°C (0.001mm/m /1°F)

Safelight conditions:

Dark green
Recommended: EncapSulite T20/ND.75 or equivalent

Storage:

The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

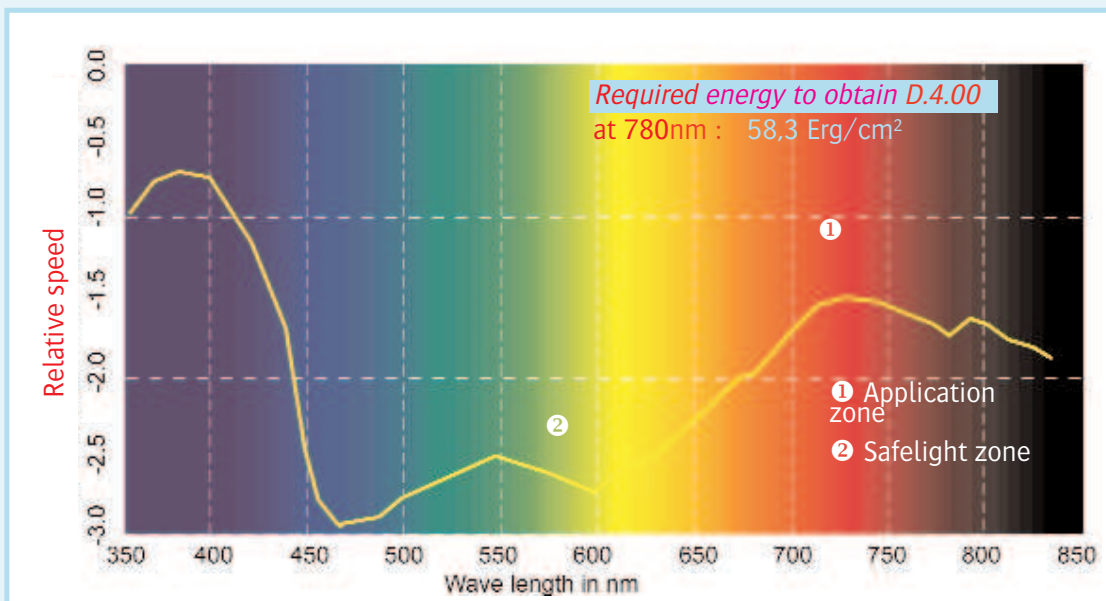


Product features



Description:

- * Alliance IR infrared film
- * Spectral sensitivity: Infrared (780nm)
Also suitable for 820nm plotters



- * Emulsion coated on a 0.10 mm
- * The matte films are approved for exposure of photopolymer plates.

Features

- ◀ Good image quality : good sharpness and practical density
- ◀ Very wide System latitude: Wide processing & exposure latitude
- ◀ Very good Day to day consistency
- ◀ Very good batch-to-batch consistency
- ◀ Convenience and ease of use because of available ECO equipment
- ◀ Ecological & Economical replenishment, very Low chemistry consumption.
- ◀ Linear output for conventional screening
- ◀ Anti-static before and after processing
- ◀ Open system : perfect processing in compatible chemistries

| Practical Photographic properties | | |
|-----------------------------------|-------------|--|
| Engine | Proset 9800 | |
| Property | IR | |
| Int. Setting | 95 | |
| Practical density | 4.00 | |
| 5% | 4 | |
| 50% | 59 | |
| 95% | 98 | |

User guidelines



Processing conditions

Agfa developers

Recommended processing time
 Processing latitude
 Processing temperature

| ACD/ASD | G101c |
|--------------|--------------|
| 30 sec. | 30 sec. |
| 25 - 40 sec. | 25 - 40 sec. |
| 35°C or 95°F | 35°C or 95°F |

Developer replenishment



| Exp. level | Icon |
|------------|------|
| 15% exp. | |
| 50% exp. | |
| 85% exp. | |

| ACD/ASD | | G101c | |
|-------------------|---------|-------------------|---------|
| ml/m ² | cc/sqin | ml/m ² | cc/sqin |
| 50 | 0.03 | 100 | 0.06 |
| 150 | 0.10 | 200 | 0.12 |
| 250 | 0.16 | 350 | 0.23 |

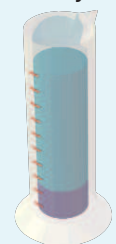
anti-Ox replenishment

1000 ml/24h = 0,264 US_galons/24h

Agfa fixers

Fixing temperature
 Fixer replenishment
 without fixer electrolysis

G333c
 32°C or 90°F
G333c



| Exp. level | Icon |
|------------|------|
| 15% exp. | |
| 50% exp. | |
| 85% exp. | |

| | |
|-----------------------|--------------|
| 500 ml/m | 0.32cc/sqin |
| 300 ml/m ² | 0,19 cc/sqin |
| 100 ml/m ² | 0,06 cc/sqin |
| 125 ml/m ² | 0,08 cc/sqin |

with fixer electrolysis

Practical Set-up Density:

D.4.00-D.4.20 (dotgain depending on optical quality of Imagesetter)

Chemical compatibility:

Processable in all Rapid Access chemistries and in main Hard Dot chemistries such as RA2000, Fuji HQ QRD-1 and QRD-1P.

Dimensional stability:

Humidity. coef:

Crh 0.016mm/m / % RH

Temp. coef:

Cot 0.018mm/m /1°C (0.001mm/m /1°F)

Safelight conditions: Dark green

Recommended: EncapSulite T20/ND.75 or equivalent

Storage:

The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

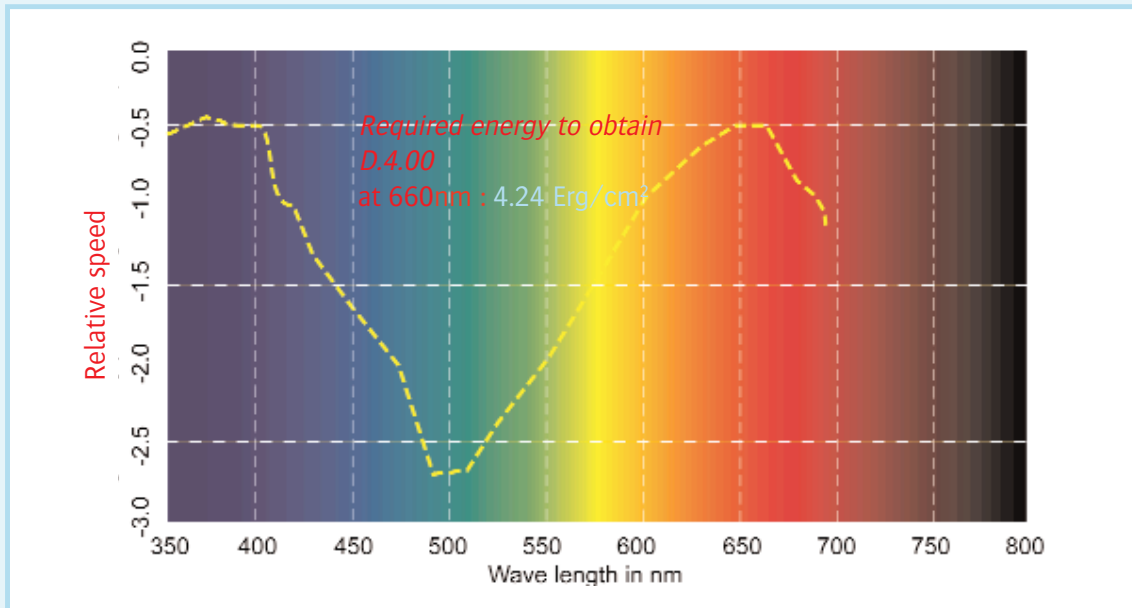
Product features

LED 660nm



Description:

- * Alliance LDD is a high speed film
- * Spectral sensitivity : LED-array lightsource 660nm



- * Emulsion coated on a 0.10 mm polyester base

Features

- ◀ Good image quality : perfect "hard dot" sharpness and very high practical density
- ◀ Very wide System latitude: Wide processing & exposure latitude
- ◀ Very good Day to day consistency
- ◀ Very good batch-to-batch consistency
- ◀ Ecological & Economical replenishment, very Low chemistry consumption.
- ◀ Linear output for conventional screening
- ◀ Approved for stochastic screening
- ◀ Anti-static before and after processing
- ◀ Open system : Good processing in compatible chemistries

| Practical Photographic properties | | |
|-----------------------------------|---------------------------------|-------------|
| Engine | Screen Tanto (2400dpi - 175lpi) | |
| Property | LD | LDD |
| Int. Setting | 48 | 48 |
| Practical density | D.4.20-4.40 | D.4.50-4.70 |
| 5% | 4 | 4 |
| 50% | 55-56% | 53% - 55% |
| 95% | 98 | 98% |

Chemical set-up







User guidelines



Processing conditions

Agfa developers

Recommended processing time
Processing latitude
Recommended temperature

| | | ACD | | G101c | |
|-------------------------|---|-----------------------|--------------|-----------------------|---------|
| | | 35 sec. | | 35 sec. | |
| | | 30 - 40 sec. | | 30 - 40 sec. | |
| | | 38°C or 100°F | | 38°C or 100°F | |
| | | ACD | | G101c | |
| | | ml/m ² | cc/sqin | ml/m ² | cc/sqin |
| 15%exp. |  | 50 | 0.03 | 100 | 0.06 |
| 50%exp. |  | 150 | 0.10 | 200 | 0.12 |
| 85%exp. |  | 250 | 0.16 | 350 | 0.23 |
| anti-Ox replenishment | | 1000 ml/24h | | = 0,264 US_galons/24h | |
| | | G333c | | | |
| | | 32°C or 90°F | | | |
| | | G333c | | | |
| 15% exp. |  | 500 ml/m | 0.32cc/sqin | | |
| 50% exp. |  | 300 ml/m ² | 0,19 cc/sqin | | |
| 85% exp. |  | 100 ml/m ² | 0,06 cc/sqin | | |
| with fixer electrolysis | | 125 ml/m ² | 0,08 cc/sqin | | |

Developer replenishment



anti-Ox replenishment

Agfa fixers

Fixing temperature
Fixer replenishment
without fixer electrolysis



with fixer electrolysis

Important remark:

It is obligatory to raise replenishment rates to achieve at least 1 developer tank turnover per week.

Practical Set-up Density:

>D.4.40 (dotgain depending on optical quality of Imagesetter)

Chemical compatibility:

Processable in all Rapid Access chemistries and in main Hard Dot. chemistries such as RA2000, Fuji HQ QRD-1 and QRD-1P.

Dimensional stability:

Humidity. coef:

Crh 0.016mm/m / % RH

Temp. coef:

Cot 0.018mm/m /1°C (0.001mm/m /1°F)

Safelight conditions: Dark green

Recommended: EncapSulite T20/ND.75 or equivalent

Storage:

The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

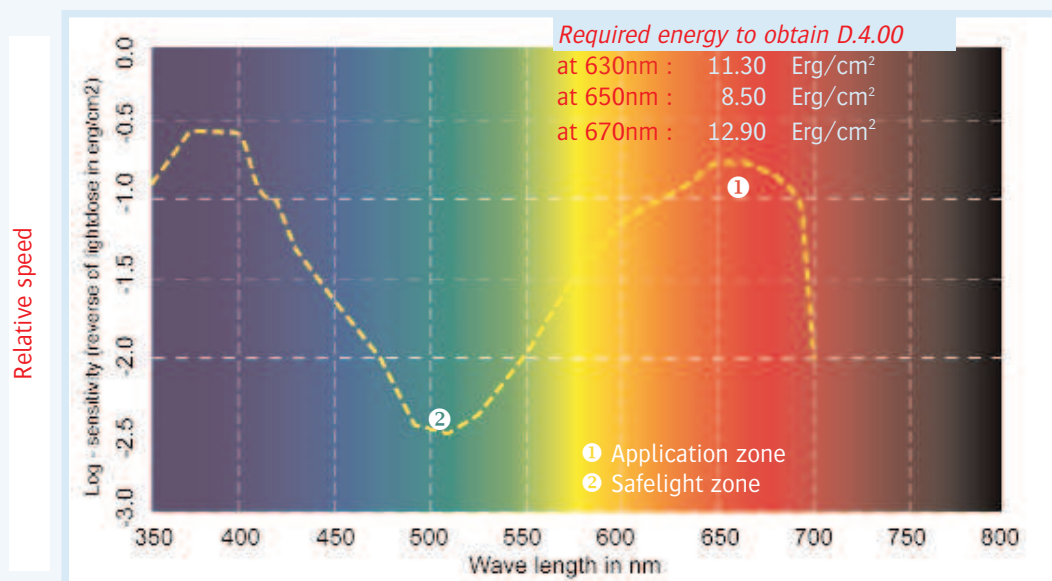
630 -670nm

Product features



Description:

- * Alliance far red film
- * Spectral sensitivity: HeNe-laser and extended red laserdiode (630 - 670 nm)



- * Emulsion coated on a 0.10mm polyester base
- * The matte films are approved for exposure of photopolymer plates.

Features

- ◀ Perfect edge sharpness and high practical density
- ◀ Wide System latitude: wide processing and exposure latitude
- ◀ Low dot shift in plate copy
- ◀ Good batch-to-batch consistency
- ◀ Convenience and ease of use because of available ECO equipment
- ◀ Low chemistry consumption
- ◀ Linear output for conventional screening & stochastic screening possible
- ◀ Recommended Film for **:Sublima for Flexo** screening
- ◀ Anti-static before and after processing

User guidelines



Processing conditions

Agfa developers

Recommended processing time
Processing latitude
Processing temperature

ACD/ASD - G101c

30 sec.
25 sec - 60sec.
35°C or 95°F

Developer replenishment



ACD/ASD - G101c

| | | | |
|--|------------|-----------|--------------|
| | 15% exp. : | 150 ml/m2 | 0.10 cc/sqin |
| | 50% exp. : | 250 ml/m2 | 0.16 cc/sqin |
| | 85% exp. : | 425 ml/m2 | 0.27 cc/sqin |

Anti-Ox replenishment

< 10 m2 / 24 hours : 2000 ml / 24 h
> 10 m2 / 24 hours : 1000 ml / 24 h
Machine width > 125cm : 3000 ml / 24 h

Agfa fixers

Fixing temperature

G333c

32°C or 90°F

Fixer replenishment



G333c

without fixer electrolysis

| | | | |
|--|------------|-----------|--------------|
| | 15% exp. : | 500 ml/m2 | 0.32 cc/sqin |
| | 50% exp. : | 300 ml/m2 | 0.19 cc/sqin |
| | 85% exp. : | 100 ml/m2 | 0.06 cc/sqin |

with fixer electrolysis

125 ml/m2 0.08 cc/sqin

Practical Set-up Density:

In ACD >D4.50 (dotgain depending on optical quality of imagesetter)
In G101c >D4.40 (dotgain depending on optical quality of imagesetter)

Chemical compatibility:

Processable in all Rappid Access chemestries & main Hard Dot chemestries such as RA2000, Fuji HQ QRD-1 and QRD-1P.

Dimensional stability:

Humidity. coef: (0.10mm base) Crh 0.016mm/m / % RH

Temp. coef: (0.10mm base) Cot 0.018mm/m /1°C (0.001mm/m /1°F)

Safelight conditions:

Dark green light

Recommended:

EncapSulite T20/ND.75 or equivalent

Storage:

The films are preferably stored in a cool dry place temperature below 20°C (68°F) and a relative humidity between 30% and 60%.

ALTAMIRA

OUR INK **KNOW-HOW** AT YOUR DISPOSAL

ALTAMIRA™ Design DP ink set

The ALTAMIRA™ Design range of high-performance inks is targeted at the decoration market (and can also be used for packaging and label printing).

The Design DP ink set is especially targeted at product decoration, direct printing on the plastic object, eliminating the need for an expensive label material.

The Design DP ink set is a UV-curable inkjet ink set suitable for high speed single pass printing (speeds of 50 m/min and higher).

The 4 color ink set (C M Y K) is designed for extreme good adhesion on many different types of substrates, especially polymeric substrates such as PP, PVC, PET and more. For many of these substrates, pre-treatment (corona, plasma or flame) will have a positive effect on adhesion.

Key benefits

- Excellent adhesion on a broad range of substrates
- Extreme high jetting performance and reliability
- Long ink shelf life
- High color gamut

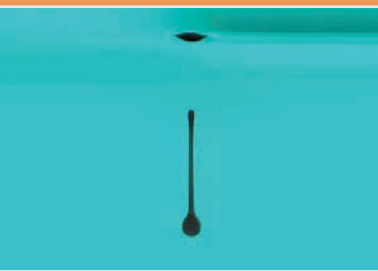
ALTAMIRA™ Design DP ink set

Functional Specifications

- single pass wet-on-wet printing (no pinning needed)
- very high cure speed for curing with Hg bulb (up to 50 – 70 m/min with one Hg bulb)
- high cure speed for curing with UV LED (up to 25 – 30 m/min for one 8 W LED 395 nm)
- high color gamut
- pre-treatment of the substrate mostly will have a positive effect on adhesion

Technical Specifications

| SPECIFICATION | Cyan | Magenta | Yellow | Black |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| Static surface tension (25°C) | 23.5 mN/m +/- 1.0 mN/m | 23.5 mN/m +/- 1.0 mN/m | 23.5 mN/m +/- 1.0 mN/m | 23.5 mN/m +/- 1.0 mN/m |
| Viscosity (at 45°C and 12 rpm) | 9.0 – 11.0 mPa.s | 9.0 – 11.0 mPa.s | 9.0 – 11.0 mPa.s | 9.0 – 11.0 mPa.s |
| Pigment particle size (average) | 120 nm +/- 10 nm | 120 nm +/- 10 nm | 170 nm +/- 10 nm | 130 nm +/- 10 nm |
| Shelf life (from production date) | 18 months | 18 months | 18 months | 18 months |



printed on synaps 

ALTAMIRA®

OUR INK **KNOW-HOW** AT YOUR DISPOSAL

ALTAMIRA™ Pack LM inks

The ALTAMIRA Pack range of high-performance inks is targeted at the label and packaging market.

The Pack LM inks are Low Migration inks, specifically developed for indirect food packaging printing and pharma packaging.

Typical applications are related to direct printing on the packaging without the use of a label substrate.

The Pack LM inks are Low Migration UV-curable inks which can deliver very low levels of migration and set-off when used in the appropriate way.

The LM inks are customized to a specific combination of substrate, image file and curing conditions, as well as the specific application.

Key benefits

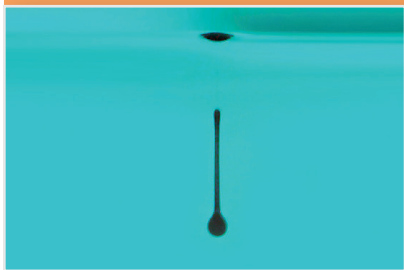
- Low Migration UV-curable inkjet inks
- Customized inks specific to the application
- Customized color inks
- LM inks for printing on specific substrates with perfect adhesion

www.agfa.com/altamira

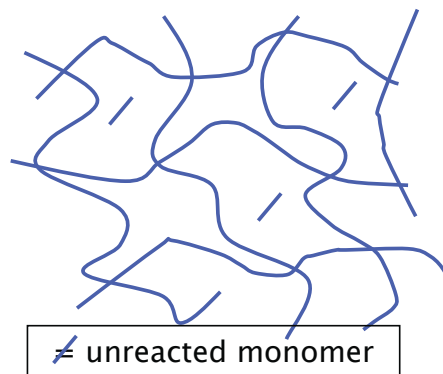
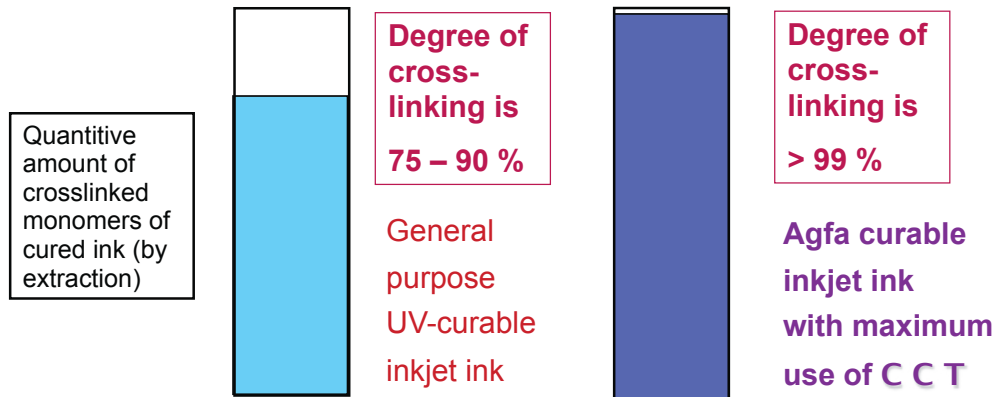
ALTAMIRA™ Pack LM ink: technology

Agfa CCT: Complete Crosslinking Technology

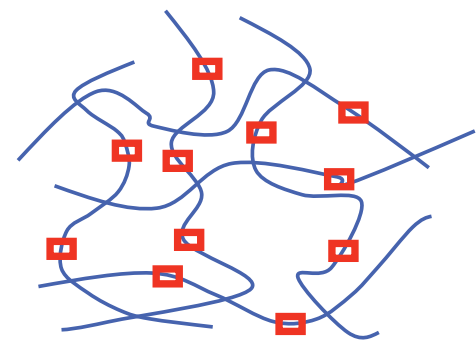
- controlled reactivity polymerizable compounds
- combined with optimal use of photo-initiation
- results in:
 - controlled polymerization kinetics
 - (almost) full crosslinking




printed on synaps 



General purpose UV-curable inkjet ink based on classic inkjet acrylate monomers



Agfa curable inkjet ink with maximum use of CCT based on monomer comprising network controlling unit ()

www.agfa.com/altamira

ALTAMIRA®

OUR INK **KNOW-HOW** AT YOUR DISPOSAL

ALTAMIRA™ Pack SUV ink set

The ALTAMIRA Pack range of high-performance inks is targeted at the label and packaging market.

The Pack SUV ink set is a UV-curable inkjet ink set suitable for single pass printing at speeds up to 50 m/min.

The 4 color ink set (C M Y K) is designed for very controlled ink spreading on the substrate, without need for pre-treatment; the range of substrates includes paper, coated paper, carton, plastics etc.

Key benefits

- Excellent image quality on a broad range of substrates
- Extreme high jetting performance and reliability
- Long ink shelf life
- High color gamut
- No visible printhead stitch

www.agfa.com/altamira

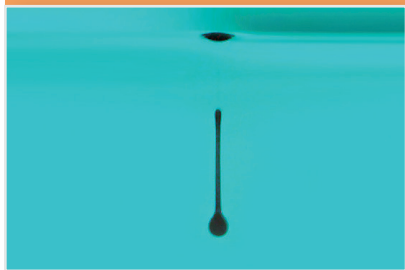
ALTAMIRA™ Pack SUV ink set

Functional Specifications

- single pass wet-on-wet printing (no pinning needed)
- very high cure speed for curing with hg bulb (up to 50 m/min)
- high cure speed for curing with UV LED (up to 25 m/min for 8 W LED 395 nm)
- high color gamut
- no need for pre-treatment of the substrate

Technical Specifications

| SPECIFICATION | Cyan | Magenta | Yellow | Black |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Static surface tension (25°C) | 22 mN/m +/- 1.0 mN/m | 22 mN/m +/- 1.0 mN/m | 22 mN/m +/- 1.0 mN/m | 22 mN/m +/- 1.0 mN/m |
| Viscosity (at 45°C and 12 rpm) | 9.5 – 10.5 mPa.s | 9.5 – 10.5 mPa.s | 9.5 – 10.5 mPa.s | 9.5 – 10.5 mPa.s |
| Pigment particle size (average) | 150 nm +/- 10 nm | 155 nm +/- 10 nm | 180 nm +/- 10 nm | 115 nm +/- 10 nm |
| Shelf life (from production date) | 18 months | 18 months | 18 months | 18 months |



printed on synaps 

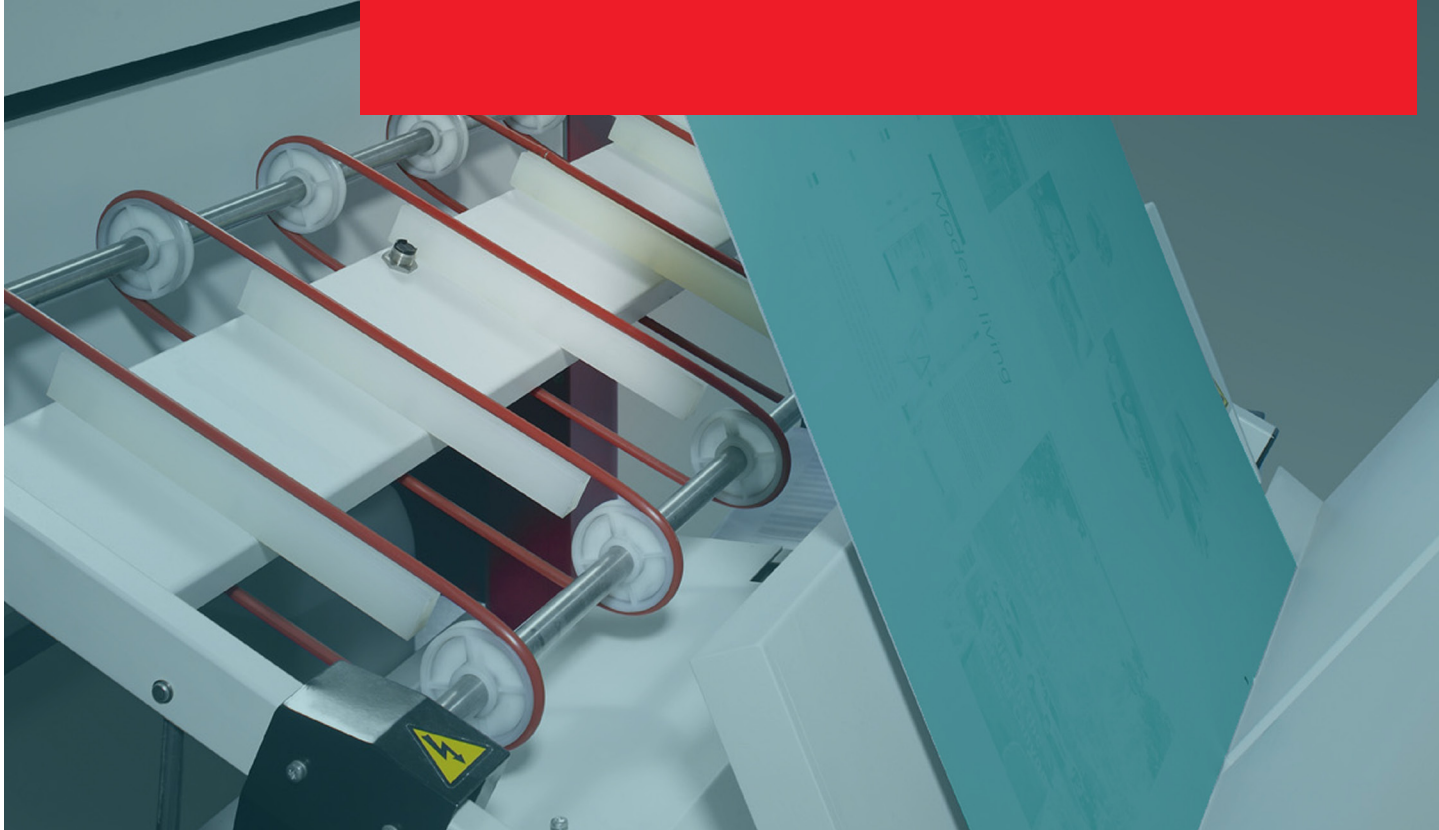
www.agfa.com/altamira

ALTAMIRA®

AGFA 

:Aluva P

Reliable, general purpose high speed positive plate for UV-setters



:Aluva P plates set a new standard for Computer-to-Conventional-Plate (CtCP) imaging and give the pressroom the steady stream of high-quality plates it needs to stay productive and profitable. They integrate seamlessly with UV computer-to-plate systems, and are suitable for a wide range of applications in sheet-fed and web printing.

Designed for UV-plate technology

:Aluva P builds on Agfa's experience and market leadership in analog and digital plate technology and combines advanced UV sensitive plate coating together with proven high quality grained and anodized aluminum substrate. The result is the first UV sensitive plate specifically made for CtCP applications.

Outstanding press performance

The use of Agfa's Flat Substrate Technology guarantees the widest latitude on press without compromising performance. This ensures fast start-up, low dampening levels, stable ink/water balance and excellent lithographic performance on press, including fast re-starts after press stop-downs. The plate can achieve run lengths of 150 000 and more impressions. Optional post-baking enables press runs of more than 1 000 000 impressions. For UV-ink capability post baking is required and mandatory.

High quality imaging

:Aluva P is a positive working plate with very high image contrast. Exposed on Lüscher's proven XPose! UV setters, the plate is capable of 200 lpi (80 lpcm) and 25 μ FM imaging and is appropriate for a wide range of high quality printing applications including stochastic screening.

Compatible with existing plate processing systems

Positive plate technology is in widespread use throughout the world and there is a wide range of compatible processors available from different manufacturers. For best printing results and longest chemistry bath life, use Agfa's DP250 developer with :Aluva P.

:Aluva P



Plate specifications :Aluva P

Features

| | |
|-----------------------|--|
| Plate type | Positive-working high-speed laser plate |
| Coating | Resin / diazo layer |
| Gauges | 0.15, 0.30, 0.40 mm |
| Surface | Electrochemically grained and anodized using Agfa's Flat Substrate Technology |
| Sizes | Commercial web and sheet fed |
| Spectral Sensitivity | UV, 400 - 440 nm |
| Exposure energy | 50 mJ/cm ² |
| Resolution* | 2 - 98% at 200 lpi (AM) 2400 dpi plate setter / 25 micron (FM) 2400 dpi plate setter |
| Processor | All standard positive plate processors (e.g.: Elantrix HX, Elantrix SX) |
| Developer | DP250 |
| Top-up processing | possible |
| Top-up rate DP250 | 80 – 120 ml/m ² |
| Replenishment rate | 50 – 70 ml/m ² |
| Anti-ox Replenishment | 90 ml/h |
| Developer temperature | 23 - 27°C |
| Developer dwell time | 20 - 28 sec |
| Developer bath life | 3.600 m ² |
| Safelight | Yellow safelight (UV free) |
| Working conditions | Operating temperature 21-25 °C (room climate), Relative humidity 40-60 % |
| Storage conditions | Shelf life 24 months if kept at 5-30°C and relative humidity 30 -70%. |
| Run length** | Up to 150,000 and more unbaked / The plate can be baked for increased run length / 1,000,000 and more after baking / 150,000 and more with UV-inks / The plate needs to be baked for UV-ink capability |

* dependent on platesetter

**dependent on press conditions

Optimised plate care and pressroom products

Features

| | |
|-------------------------|--|
| Plate Cleaner | Normakleen RC 910 |
| Machine Finisher | RC 795, UNIFIN |
| Baking Gum | RC 510, .RC 520, Thermotect |
| Deletion fluid | KP23, KP273 |
| Deletion pen | KP010, KP011, KP012 |
| Fountain Solution | Prima FS303SF, Prima FS404AS, Anturafount AFS1 |
| Roller and Blanket wash | Xtrawash Plus 40 or 60 |

:Amigo TS

Offset Plates: High Performance Thermal Plate Technology

The next step in consistent, stable and reliable ThermoFuse™ technology, now offering higher speed, improved contrast and increased daylight stability for a demanding pressroom.

Fast, efficient and rich in contrast

Agfa's new :Amigo TS uses ThermoFuse™ technology to deliver robust, high resolution plate performance. :Amigo TS is able to deliver the highest quality press results with remarkable chemical resistance and extraordinary processing latitude thanks to the use of physical, rather than chemical, plate processing. This means simple platemaking with consistently high quality, plate after plate without the variables seen with other, non-ThermoFuse technologies. :Amigo TS is daylight working for maximum convenience and can be processed in all standard plate processors. :Amigo TS delivers the ultimate in reliability, convenience and quality to the most demanding pressroom.

:Amigo TS - simplifying platemaking

Platemaking has never been this simple and straightforward. :Amigo TS is tolerant to a wider range of exposure and processing variables than a standard chemically developed plate. That means more consistent plates with less effort. Even processor cleaning is easy with minimal levels of maintenance and upkeep required.

:Amigo TS - physical imaging

By using Agfa's innovative and proven ThermoFuse™ Technology, which features purely physical image formation, many exposure variables are eliminated. :Amigo TS's coating is made up of millions of individual thermoplastic pearls. It is negative working, so the 830 nm laser diodes expose the image. In the exposed image areas, these thermoplastic pearls are heated, so melt and fuse together, as well as bonding firmly to the substrate.

:Amigo TS – simple processing

In the unexposed areas, the pearls are very easily removed by washing the surface with a mild Clean Out Solution. Since the method of removing the non-image area is physical, rather than chemical, there is the widest possible processing latitude. Small variations in temperature, pH, activity or replenishment settings have little or no impact on the final press-ready plate. This ensures that platemaking is simple, predictable and reliable -plate after plate. The bath life is extremely long at more than 50m² per litre and :Amigo TS can be processed in any existing CtP or analogue plate processor.

:Amigo TS -superior press performance

The inherent simplicity of platemaking with :Amigo TS ensures that the pressroom is supplied with a steady stream of the highest quality plates. The proven technology used in :Amigo TS's coating offers excellent chemical resistance, making :Amigo TS suitable for a wide range of sheetfed and web offset printing applications. Post baking will increase the run length significantly. The specially developed 'Flat Substrate Technology' ensures optimised ink/water balance, clean out and run length performance.

:Amigo TS - for high quality printing

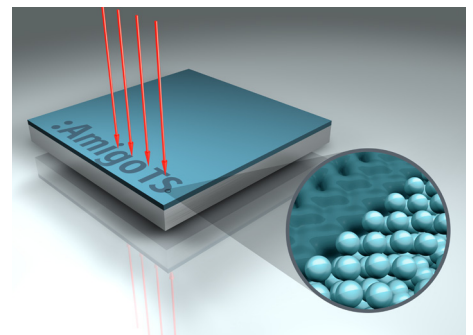
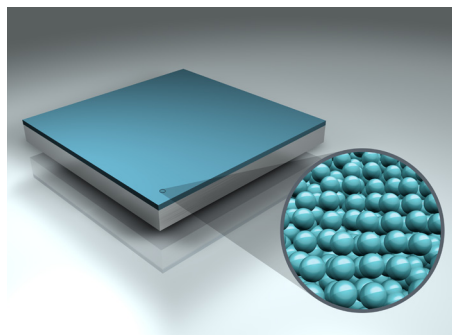
Plate to plate, week to week, the highly stable ThermoFuse™ technology means that images are highly predictable and not prone to change. This stability is important for reprints - you can be confident that the image will match time after time. The plate stability comes from the elimination of exposure and processing variables that are seen with chemically developed plates. This together with the excellent chemical resistance of the plate gives you all the ingredients for high quality printing.

:Amigo TS - Environmental benefits

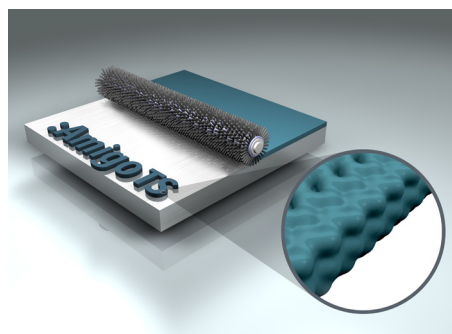
The :Amigo TS Clean Out Solution is used to remove the non-image areas at a top-up rate of 30 to 50mls/m². This is a significant reduction over other CtP technologies and reduces waste generation and disposal costs.

Topping up of the Amigo TS Clean Out Solution is mostly to compensate for evaporation of the solution rather than actual usage to clean out the plate itself. Because a clean out solution is used there is also no need to compensate for pH or conductivity as is the case with conventional thermal processors.

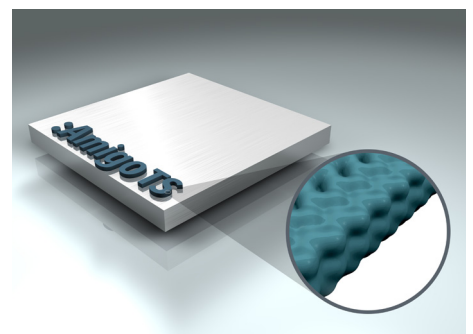
The :Amigo TS Clean Out Solution gives a long bath life and lower chemistry consumption, meaning less processor cleaning and maintenance - saving time and money. The remarkable cleanliness of the :Amigo TS system means exceptionally clean processors even at the end of a long chemistry cycle.



Infra-red energy from 830nm laser diodes exposes the image area. During this process the thermoplastic pearls absorb the heat energy and melt, forming an insoluble resin that is firmly bonded to the aluminium substrate. Unexposed areas remain unhardened and are easily removed with the Clean Out Solution. This physical imaging process is referred to as ThermoFuse™ technology.



The mild, wide-latitude :Amigo TS Clean Out Solution easily removes the soluble unexposed areas. Only the IR-exposed regions are resistant to the Clean Out Solution. It is the physical imaging that makes :Amigo TS development-free and gives the plate the exceptionally wide tolerances towards exposure and processing variations.



After clean-out only the image areas remain. The plate is gummy and ready for press. The use of Agfa's Flat Substrate™ Technology, which uses high quality graining and anodising, ensures a high quality, durable performance on press.

:Amigo TS

Suitable for a wide variety of applications

:Amigo TS is a multi-purpose plate that has proved suited to many different types of press work. :Amigo TS works on any suitable 830 nm thermal plate setter and tolerates fluctuations in laser energy with practically no affect on image quality. Plate processing is simple and clean, :Amigo TS can tolerate processing variations with the same wide latitude as it can tolerate exposure variations.

Versatile, robust performance

Using the highest quality grained and anodised substrate, :Amigo TS delivers the press performance and versatility that you would expect from Agfa. Fast make-ready and stable ink/water balance ensure that your press will deliver the best quality and fast results.

Plate Specifications

| | |
|--------------------|---|
| Sensitivity | 180mJ/cm2 |
| Resolution | 1-99% with :Sublima 240, 200 lpi and 25µm FM 2-98% with ABS, 200 lpi |
| Pre-Heat | No |
| Handling | Daylight |
| Non-Image Removal | Amigo TS Clean Out Solution |
| Replenishment rate | 30-50mls/m2 |
| Availability | All standard sizes and gauges |
| Run length | Up to 200,000* unbaked |
| Processors | All standard analogue or thermal processors |
| Substrate | High quality grained and anodised aluminium |

*depending on press and imaging conditions.

Agfa Graphics' Optimed Pressroom Chemicals

| | |
|--|--|
| Plate cleaner | ANTURA CtP Plate Cleaner |
| Washout gum | ANTURA CleanGum |
| Deletion pen or gel | KP010, KP011 or KP012 |
| Normal short-term storage (max 7 days) | RC795A |
| Baking gum | RC510 |
| Desensitizer | PlateEtch Plus |
| Scratch Remover | Reviva Plate |
| Fountain solutions | :Amigo TS is compatible with all Agfa fountain solutions. |
| Roller and blanket washes | :Amigo TS is compatible with all Agfa roller and blanket washes. |

**A chemical passport indicating the most appropriate chemistry is available for all AGFA plates.
Not all plates are available in every region. Contact your local Agfa representative for more information.**



:Anapurna M2500i roll-to-roll

:Anapurna M2500i

High-speed hybrid UV-curable inkjet system with a printing width of 2.5m for indoor and outdoor applications.

Anapurna M2500i

Stand out and let Anapurna M2500i differentiate your decoration and communication jobs.

The 6-color Anapurna M2500i hybrid wide-format printer is a perfect fit for sign shops, digital printers, photo labs and mid-size graphic screen printers printing outdoor and indoor top quality wide-format jobs, on a wide range of rigid and roll-to-roll media. With the new design also come improved print quality and speed. A more accurate dot positioning, an enhanced curing system and higher performing print heads make the Anapurna M2500i into a heavy-duty, turnkey and complete UV inkjet system. The white ink function creates new possibilities for printing on transparent material for backlit applications or for printing white as a spot color. With the automatic board feeder, productivity is increased even more.

Store communications - self adhesive vinyl



In-store communications - backlit

In-store communications - forex

In-store communications - bache

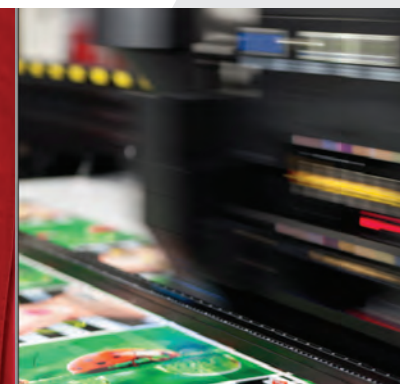
2.5m width for a wider range of applications

The Anapurna M2500i adds more versatility to your business as its width of 2.5m expands your range of applications. It produces top quality prints on uncoated rigid media, such as corrugated boards, rigid plastics, exhibition panels, stage graphics and advertising panels, as well as roll media such as film, vinyl and paper, canvas and banners of up to 4.5 cm thick. It can also be used to print niche products such as wood, dvd's or personalized objects.

Reliable workhorse

Featuring a robust and industrial engineered concept, fit for sustained higher workloads, and incorporating the latest generation of fast-firing print heads (the Konica Minolta KM1024i), the Anapurna M2500i offers a high throughput while also achieving a high level of print quality. Measured at optimum print shuttle speed, the system produces up to 35 m²/h in six colors production quality*. At that speed you will be able to maintain a high print production on all your substrates, satisfying your most demanding customers. Multiple boards or borderless printing increases productivity even more.

**See the back cover for an overview of the speeds in the different printing modes/quality levels.*





Outdoor communications - bache



Conveniently located ink trolley

Top quality on a wide range of roll and rigid media

Thanks to a re-engineered belt drive and shuttle beam, the Anapurna M2500i brings a highly accurate dot positioning and thus excellent image quality, which is further enhanced by the 3-pass mode with gradient functionality. The eight 12 picolitre KM1024i heads guarantee printing of good solids, fine text reproduction of up to 4 pt, good tonal rendering and low ink consumption.

Best-in-class Agfa-made inks in the mix

Anapurna UV-curable inks deliver fast drying, a wide color gamut, high color vibrancy and versatile material compatibility for the most demanding wide-format indoor and outdoor applications. Offering very good adhesion on difficult substrates, these inks – both white and color – bring high image longevity and outdoor resistance, making them the best choice for a wide range of applications. As they allow instant curing, prints are ready to handle immediately.

On top of that, thanks to their high-pigment load, the ink consumption per square meter is low. This so-called 'thin ink layer' technology saves costs and results in nicer looking prints.

In-store communications - foamboard

Gadget printing - dvd

Rely on white

The Anapurna M2500i is ready to work with Agfa Graphics' fourth generation white inks, which are highly opaque. This means you obtain a qualitative white output with low ink consumption on colored or dark substrates as well as on transparent material for backlit or backlit/frontlit applications. Alternatively, you can use white simply as a spot color. Also, the Anapurna M2500i has the possibility to run pre- or post-white concurrently in one production run, greatly expanding application possibilities.

Powered by Asanti workflow

Just like all wide-format printers from Agfa Graphics, the Anapurna M2500i is part of an integrated solution, including Agfa Graphics' Asanti wide-format workflow software, which streamlines production processes, increases productivity and maintains consistency across the board. Asanti removes the hit-and-miss elements of print production so that you can integrate all of your pre-press elements and the result is a fully accountable end-to-end quality management solution. Say goodbye to errors and costly remakes.



Asanti workflow software

Designed for the greatest possible deployment and convenience

Flawless media handling

Media loading is very straightforward with automated features such as the media registration bar and head height adjustment. The Anapurna M2500i's automatic vacuum system delivers an equal vacuum during the printing process, whether printing roll or rigid materials. This ensures flawless media transport, giving accurate print results at all times. The ring-blower driving the vacuum system is built in in the printer, reducing the noise to a minimum for even more user convenience. In addition, the Anapurna M2500i incorporates a set of shuttle safety sensors to prevent print heads from touching and damaging the substrate.

Last but not least, the ionization bars see to it that there are no electro-static loads on the substrate, ensuring optimum ink droplet control and thus the highest print quality.

Multiple board or borderless printing

Multiple board printing is possible to maximize your productivity even more. The borderless printing feature makes post-finishing superfluous.

In-store communications - paper



Indoor communications - polyester



Store communications - self adhesive vinyl



POP printing - wood & bache

Automatic board feeder

The printer can have an automatic board feeder added in order to increase productivity substantially. This optional automated board feeding table provides an automated solution for volume printing of small board sizes (up to five boards can be printed in parallel).

Ink monitoring

During production the ink levels are monitored by the automatic ink refill system. The ink (re)filling system can be accessed easily, enabling a spotless refill of your ink containers.

The white ink is managed by a fully separate system (circulation, under-pressure regulation and cleaning circuit). The tank containing it is equipped with a stirring mechanism to keep the ink properly mixed at all times.

Convenient operator interface

All settings are conveniently arranged in a powerful straightforward graphic user interface on a swivel-arm mounted touch screen. Printed files are being spooled, viewed and stored by an internal bitmap server with a HD of 1 TB for ripped images for fast spooling and secure transfer of big amounts of data.





•Anapurna M2500i

POSITIONING

- Perfect fit for digital printers, photo shops and mid-size graphic screen printers
- Heavy-duty, turnkey and complete industrial UV inkjet system
- Productivity: quality level dependent:
 - Express mode: up to 115m²/h
 - Production mode: up to 35m²/h
 - Standard quality mode: up to 28m²/h
 - High quality mode: up to 20m²/h
 - High definition: up to 16m²/h
- Excellent solids and signs in 8-pass printing
- Multiple (= parallel) board printing
- Borderless printing

DESIGN CONCEPT

- Robust engineering - professional hybrid UV wide-format printer
- Includes all necessary components like the vacuum ring-blower, shuttle safety sensors, media transport and roll-up systems for guaranteed peak production

APPLICATIONS

- Banners, posters, exhibition graphics, POP, mock-ups, backlit, frontlit, self-adhesives (labels)
- Niche application: DVD printing, wood, art reproductions, personalized object printing
- Party gadgets (beer coasters...)
- Architectural and interior decoration, ceramics printing

ENGINE FEATURES

- Reinforced beam
- Automated media positioning bar mounted on table for the registration of rigids
- Divided vacuum table, 4 zones
- 1.5 kW ring-blower for strong vacuum situated in the engine for less noise
- Accurate media transport/feed
- Powerful fast-scan motor
- Automatic control of vacuum strength (inverter based)
- Ionization bar mounted on each side of carriage to remove electrostatic load on media
- Shuttle safety sensors on each side of the carriage
- Extended basic frame, to support ring-blower
- Black colored re-enforced media transport belt
- Network and USB3 (2) connection
- On-board controller with touch screen

TEXT QUALITY

- Positive: 4 point
- Negative: 6 point

SYSTEM INTEGRATION RIP

- Integrated production solution with Asanti, other RIPs on request
- Ready to use Anapurna M2050i media/ink profiles available (Asanti)

MEDIA/SUBSTRATE FLEXIBILITY

Minimum printable substrate size

- Rigid /sheet media (printing single board): A2 landscape (60 x 42cm / 1.97 x 1.4ft)
- Flexible roll media: 60cm wide (1.97ft)

Flexible media

(roll-to-roll, roll-to-sheet and sheet printing)

All printable flexible media, except 'mesh' without liner

Maximum width:

- Media size: 250cm (8.2 ft)
- Printable size: 250cm (8.2ft) / 247cm (8.1 ft) with borderless printing
- Minimum thickness: 0.2mm

Media roll specifications:

- Max roll weight: 50kg
- Max roll diameter: 36cm (14.17")
- Support for 3" core

Rigid Substrate

Maximum width

- Media size: 250cm (8.2 ft)
- Printable size: 250cm (8.2 ft) / 247cm (8.1 ft) with borderless printing

Maximum length

- Supported by 1 rigid roller table: 140cm (4.59ft)
- Supported by 1 rigid roller table + media extension table (default): 320cm (10.5ft)

Thickness

- Minimum thickness: 1mm
- Maximum thickness: 45mm (1.77")
- Maximum weight: 10kg/m² on printing table
- Multiple board loading possible when using "registration blocks"

INKS

7 Anapurna M G2 UV-curable inks (CMYKCLm and white)

HEADS

- 6 Konica-Minolta KM1024i-heads: 1024 nozzles/head with a droplet volume of 12pl (colors)
- 2 Konica-Minolta KM1024i-heads: 30pl (white in line)

ENGINE DIMENSIONS

475 (W) x 169 (H) x 173 (D) cm

WEIGHT

2200 kg

ELECTRICITY

- 380 V 3-phase star connection with Neutral wire (3x 32A') 50/60Hz
- 230V 3-phase delta connection without Neutral wire (3x 30A') 50/60 Hz



Outdoor communication - vinyl

:Anapurna M3200i RTR (+white)

The Anapurna M3200i RTR is a high-speed 3.2 meter-wide roll-to-roll UV-inkjet printer. It prints top-quality indoor and outdoor banners and billboards in a six, a four, or a four color plus white configuration, at speeds up to 123 m²/hr.

•Anapurna M3200i RTR (+white)



Outdoor communications - PVC banner

Your day-to-day roll-to-roll jobs? Hand them over to your rock-solid Anapurna M3200i RTR. This dedicated roll-to-roll UV-curable printer, which comes in a six color version, a four color version, and a four color plus white version, handles a broad scope of flexible media for indoor and outdoor applications. It is the ideal solution for sign & display makers, printing shops or commercial printers that want to produce high-quality signage in four or six colors.

The four color plus white version stands out by its ability to print white in different modes, improving the opacity of the printed material as well as increasing color contrast and readability. It thus transforms self-adhesive vinyl, PVC banners or backlit film into vibrant, multi-dimensional graphics that grab attention.

The Anapurna M3200i RTR can also handle dual-roll printing. This means you stand to double your productivity when printing on smaller media – whether it is paper, vinyl or polyester.



High productivity thanks to the latest generation of print heads

Incorporating the latest generation of fast-firing KM 1024i print heads, the Anapurna M3200i RTR offers a high throughput while also achieving a high level of print quality. You will be able to maintain a high production on all substrates, satisfying your most demanding customers.

Wide range of media

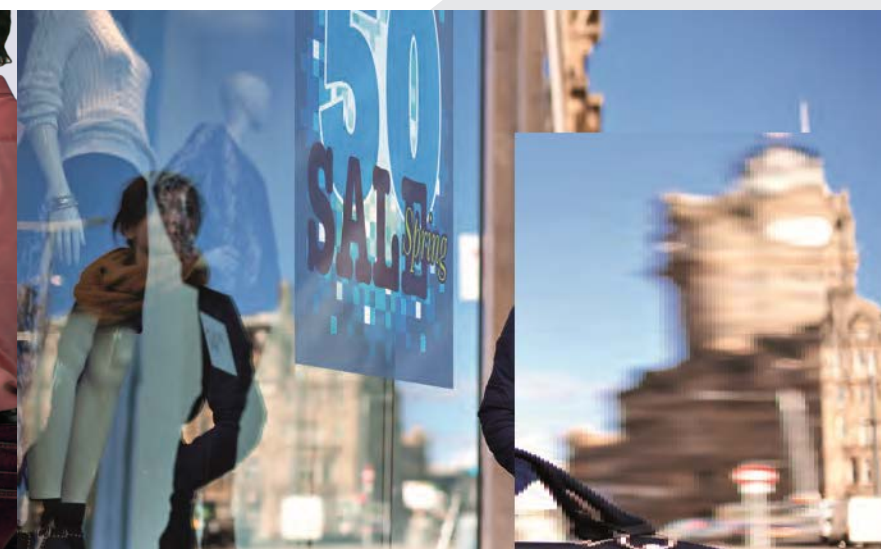
Agfa Graphics' large gamut of UV-curable inks enable printing on a broad range of flexible materials, including top such as fabric, canvas, self-adhesive vinyl, plastic film, paper and polyester including 100% PE eco-friendly material. The Anapurna M3200i RTR has an excellent track record with outdoor applications such as billboards and building wraps.

Superior quality

The set of four or six KM1024i 12 picoliter heads guarantees printing of artefact-free solids, fine text reproduction of up to 4 pt, very smooth tonal rendering and low ink consumption. Next to the 4 (CMYK) or 6 (CMYKLcLm) print heads, this system features a robust and industrial engineered concept, fit for sustained higher workloads. The 1024 nozzles per head produce prints up to 123 m²/h.

White printing to improve opacity, color contrast and readability

The Anapurna M3200i RTR plus white operates with Agfa Graphics' latest generation of white inks, which are highly opaque. This means you obtain a qualitative white output with low ink consumption on colored or dark substrates, as well as on transparent material for backlit or backlit/frontlit applications. Alternatively, you can use white simply as a spot color. Also, the Anapurna M3200i RTR plus white has the possibility to run pre- and/or post-white concurrently in one production run, greatly expanding application possibilities.



Outdoor communications - self-adhesive vinyl



Outdoor communications - flags

•Anapurna M3200i RTR (+white)

High-tech vacuum system

A vacuum system in four zones takes care of flawless media transport and accurate printing. Switch on the zone you need in case of small roll printing. In case of dual-roll printing, each roll gets the right vacuum applied.

Flawless media handling and perfect droplet control

Media loading is very straightforward with automated features such as the media-tension rollers (which keep media stretched at all times) and head height adjustment. An ionizer bar sees to it that there are no electrostatic loads on the substrate, ensuring optimum ink droplet control and thus delivering the highest print quality.



Optional media loader for heavier rolls

A specially designed trolley to handle heavy rolls up to 150 kg will save you a lot of trouble. Installing these heavy rolls can now be done smoothly.

ASANTI WORKFLOW

For optimal productivity, all Anapurna engines can be powered by Agfa Graphics' Asanti wide-format workflow software, which streamlines production processes and maintains consistency across the board. Asanti removes the hit-and-miss elements of print production so that you can integrate all of your pre-press elements. The result is a fully accountable end-to-end quality management solution.

Reinforced beam

A robust beams sees to it that the shuttle moves about flawlessly ensuring accurate dot placement.

Shuttle safety sensors

The Anapurna M3200i RTR incorporates a set of shuttle safety sensors to prevent print heads from touching the substrate. This will avoid any possible damage to the precious print heads.

User-friendly operating system

All settings are conveniently arranged in a powerful straightforward graphic user interface on a user-friendly touchscreen and keyboard mounted on a swivel arm. Printed files are being spooled, viewed and stored by an internal bitmap server with a HD of 1 TB for ripped images for fast spooling and secure transfer of big amount of data.

CMYKLcLm + white inks



MATCHED UV-INKS FOR FAST DRYING, VERSATILITY AND A WIDE COLOR GAMUT

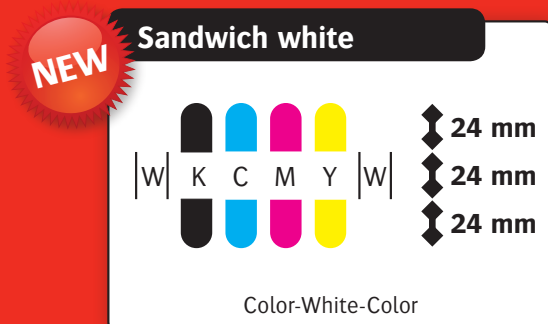
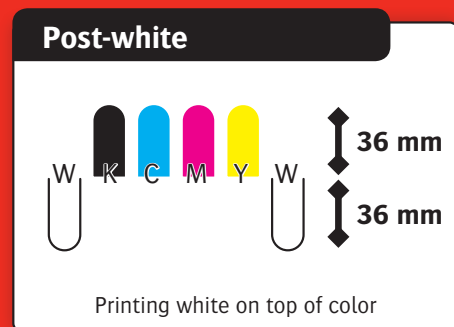
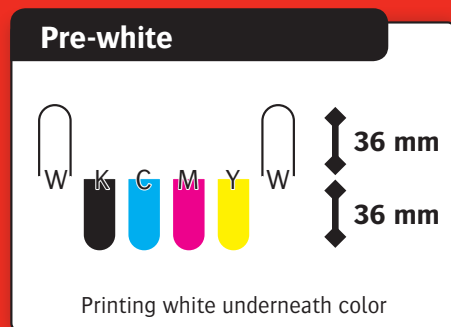
Agfa Graphics' UV-curable inks provide a large color gamut, high color vibrancy and, thanks to good ink adhesion, high image longevity and outdoor resistance. These inks allow instant curing, making prints ready to handle immediately after leaving the engine. They deliver the same high-quality results batch after batch. During production the ink levels are monitored by the automatic ink refill system.

Thanks to their high-pigment load, these inks deliver the highest quality prints with the lowest ink consumption per square meter in the industry. This so-called 'thin ink layer' technology saves on costs and results in nicer-looking prints.

Multi-layer printing

The multi-layer printing feature enables different printing modes:

- Pre-white: printing white underneath color
- Post-white: printing white on top of color
- Sandwich white: color-white-color
- High-density color: printing one color on top of another color for backlit applications



Print heads can be divided in several parts, and each part can be assigned to a different or identical image, to be used for single-run high density.

This means that the Anapurna 3200i RTR allows printing companies to print up to three layers at once, in perfect registration, in one pass. Images come alive. Backlit prints are enhanced when using high-density white on one or more layers.

Dual-roll printing to increase productivity

The dual-roll option makes it possible to install two 60 inch rolls next to each other to run two jobs at the same time. This enables you to use the printer efficiently on smaller media.

Mesh option

The mesh option allows for printing on mesh without liner, which represents an important cost benefit and broadens the printer's application scope.



Dual-roll printing

**•Anapurna M3200i RTR •Anapurna M3200i RTR
(+white)**

Media & Printing Specifications

| | |
|---------------------------------------|---|
| Media width | 61-320 cm (24"-126") Optional dual-roll kit available: support for 2 rolls of 152.4 cm (60") |
| Print width | Up to 320 cm Optional dual-roll kit available: support for 2 rolls of 152.4 cm (60") |
| Borderless printing with mesh kit | Up to 320 cm media width (126") |
| Media thickness | Minimum 0.2 mm |
| Maximum roll weight (including shaft) | 100 kg (150kg) |
| Maximum roll diameter | 36 cm (14.17") |

Productivity

| | | |
|-------------------|--|--|
| Express mode | Up to 75 m ² /h | Up to 75 m ² /h |
| Production mode | Up to 38 m ² /h | Up to 38 m ² /h |
| Standard mode | Up to 30 m ² /h | Up to 30 m ² /h |
| High-quality mode | Up to 23 m ² /h | Up to 23 m ² /h |
| High-definition | Up to 18 m ² /h | not applicable |
| Backlit | 6 to 9m ² /h, depending on resolution | 6 to 9m ² /h, depending on resolution |

Print Heads & Inks

| | | |
|-------------|---|---|
| Print heads | 4 or 6 Konica-Minolta KM1024i high-frequency print heads: 1024 nozzles/head, 12 pl (colors) | 4 Konica-Minolta KM1024i high-frequency print heads: 1024 nozzles/head with a droplet volume of 12 pl (color) and 30 pl (white) |
| Inks | 4 or 6 Anapurna M UV-curable inks (CMYK / CMYKcLm) | 4 flexible color RTR inks (CMYK) 1 flexible white ink |

Text Quality

| | |
|-----------------------|---------|
| Text quality positive | 4 point |
| Text quality negative | 6 point |

Engine Weight & Dimensions

| | |
|------------------------|-----------------------|
| Dimensions (w x h x d) | 5960 x 1650 x 1980 cm |
| Weight | 3500 kg |
| Floor space | 7.7 x 3 m |

Electricity

| | |
|--------|--|
| Europe | 380 V 3-phase star connection with neutral wire (3 x 40A) 50/60 Hz |
| USA | 230 V 3-phase delta connection without neutral wire (3 x 40A) 50/60 Hz |

System Integration RIP / Workflow software

| | | |
|---|--|--|
| Integrated production solution with Asanti; other RIPs on request | | |
| | Anapurna M3200i RTR media/ ink profiles available on Asanti | Anapurna M3200i RTR W media/ ink profiles available on Asanti |

Safety approvals

| |
|---------------|
| CE, FCC, ROHS |
|---------------|

ANTURA CleanGum

Plate care

Washout Gum for all plates with high ink solvency

Pro 6 x 1 Litre: **Art.code** P9SZL

ANTURA CleanGum is a dual purpose plate cleaner and storage gum formulated for use with all offset printing plates. When used as a plate cleaner, ANTURA CleanGum will efficiently remove ink from the plate surface and is designed to be used as a gum for short term plate storage.

Working instructions

- Shake well before use.
- Apply ANTURA CleanGum directly onto the plate surface using a damp sponge or wipe applying sufficient pressure to remove all ink.
- Wash off with water.

As storage gum

- Re-apply ANTURA CleanGum directly onto the plate surface using a damp sponge to gum the plate.
- Buff down to a thin even film layer and allow to dry naturally.
- Recommended for up to one week of storage.

Main characteristics

- Recommended for all Agfa plates, both analogue and CtP.
- High ink solvency.
- Low odour, stable emulsion.
- Improves the ink receptivity of the image areas.
- Allows immediate start-up after short stops or storage.
- In one application removes ink from the plate and gums the plate.
- Optimised viscosity for easier application.
- Also used for short term plate storage (1-7 days).
- Contains no abrasives or aromatics.

Safety

Read MSDS before using this product.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Keep away from heat and direct sunlight.
- Keep the containers closed.
- Shelf life: 18 months from date of manufacture.

Waste

Collect if possible, send to authorized disposal centres, in accordance with local and national regulations.

Physical properties (Concentrated solution)

| | |
|--------------|----------------|
| Appearance | White emulsion |
| Flashpoint | > 61 °C |
| Density | 0.925 kg/litre |
| Viscosity | 1200 mPas |
| pH (25°C) | 7.1 |
| VOC | 37.6% |
| Ink solvency | Strong |

Agfa Graphics plate compatibility

| Digital plate technology | | | | | | | | | |
|--------------------------|-----------|------------------|------------------------|--------------|--------------------|---------------|---------------------|-------------------|-------------------------|
| Thermal | | | | | | | | | |
| :Azura TS | :Amigo TS | :Thermostar P970 | :Thermostar P970 baked | :Energy Xtra | :Energy Xtra baked | :Energy Elite | :Energy Elite baked | :Energy Elite Pro | :Energy Elite Pro baked |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Visible light | | | | | | |
|---------------|---------------|-----------|-------|-------|----------|------------------|
| :Aspire | :Aspire baked | :Azura-Vi | :N91v | :N94v | :N94-VCF | :Lithostar Ultra |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| CtCP plate technology | | | Analogue plate technology | | |
|-----------------------|----------------|----------|---------------------------|---------------------|--------------|
| :Aluva P | :Aluva P baked | :Aluva N | :Meridian P55 | :Meridian P55 baked | :Zenith N555 |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ANTURA Low VOC Plate Cleaner

Plate care

Pro 6 x 1 Litre: **Art.code** P93X0

High ink solvency plate cleaner for all CtP plates containing almost no volatile organic compounds

Due to solvent replacing compounds, ANTURA Low VOC Plate Cleaner contains the lowest percentage of VOC on the market. Without compromise to any of the standard characteristics of a plate cleaner, AGFA ANTURA low VOC Plate Cleaner ensures a healthy and environmentally friendly printing process. ANTURA Low VOC Plate Cleaner is guaranteed to work with all AGFA CtP Plates

Working instructions

- Shake before use.
- Apply ANTURA Low VOC Plate Cleaner directly onto the plate surface using a damp sponge applying sufficient pressure to remove any ink.
- Wash off immediately with water.
- ANTURA Low VOC Plate Cleaner should not be left on the image area for a prolonged period without buffing down.

Main characteristics

- Suited for all CtP technologies.
- Plate cleaner with high ink solvency.
- High flash point
- Removes scum, oxidation and light scratch marks.
- Optimised viscosity for easier application.
- Improves ink receptivity of the image.
- Improves hydrophilic properties of the non-image area.
- Stable emulsion.
- Provides protection during press stops.

Safety

Read MSDS before using this product.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Keep away from heat and direct sunlight.
- Keep the containers closed.
- Shelf life: 18 months from date of manufacture.

Waste

Collect if possible, send to authorized disposal centres, in accordance with local and national regulations.

Physical properties (Concentrated solution)

| | |
|--------------|----------------------|
| Appearance | White emulsion |
| Flashpoint | > 90 °C |
| Density | 0.99 kg/litre |
| Viscosity | 1550 mPas |
| pH (25°C) | 1.2 |
| VOC | Europe: 10% / US: 2% |
| Ink solvency | Strong |

Agfa Graphics plate compatibility

| Digital plate technology | | | | | | | | | |
|--------------------------|-----------|------------------|------------------------|--------------|--------------------|---------------|---------------------|-------------------|-------------------------|
| Thermal | | | | | | | | | |
| :Azura TS | :Amigo TS | :Thermostar P970 | :Thermostar P970 baked | :Energy Xtra | :Energy Xtra baked | :Energy Elite | :Energy Elite baked | :Energy Elite Pro | :Energy Elite Pro baked |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Visible light | | | | | | |
|---------------|---------------|-----------|-------|-------|----------|------------------|
| :Aspire | :Aspire baked | :Azura-Vi | :N91v | :N94v | :N94-VCF | :Lithostar Ultra |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| CtCP plate technology | | | Analogue plate technology | | |
|-----------------------|----------------|----------|---------------------------|---------------------|--------------|
| :Aluva P | :Aluva P baked | :Aluva N | :Meridian P55 | :Meridian P55 baked | :Zenith N555 |
| ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

ANTURA UV Plate Cleaner

Plate care

High ink solvency plate cleaner for use with UV curable inks

Pro 6 x 1 Litre: **Art.code** P931U

ANTURA UV Plate Cleaner is a plate cleaner with high ink solvency developed especially to remove UV curable inks from printing plates. This specific plate cleaner combines excellent plate compatibility with high UV ink solvency to remove ink quickly, desensitise non-image areas and improve the ink receptivity of the image. According to the european standard, ANTURA UV Plate Cleaner is a NON-VOC product.

Working instructions

- Shake before use.
- Apply ANTURA UV Plate Cleaner directly onto the plate surface using a damp sponge applying sufficient pressure to remove any ink.
- Wash off immediately with water.
- ANTURA UV Plate Cleaner should not be left on the image area for a prolonged period without buffing down.

Main characteristics

- Designed to remove UV inks from plates used in UV applications.
- High Flash Point, NON-VOC plate cleaner.
- High UV ink solvency plate cleaner.
- Removes scum, oxidation and light scratch marks in the non image area.
- Stable emulsion.
- Optimised viscosity for easier application.
- Improves ink receptivity of the image.
- Improves hydrophilic properties of the non-image area.
- Provides protection during press stops.

Safety

Read MSDS before using this product.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Keep away from heat and direct sunlight.
- Keep the containers closed.
- Shelf life: 18 months from date of manufacture.

Waste

Collect if possible, send to authorized disposal centres, in accordance with local and national regulations.

Physical properties

| | |
|--------------|----------------------|
| Appearance | White emulsion |
| Flashpoint | > 126 °C |
| Density | 0.99 - 1.03 kg/litre |
| Viscosity | 1400 - 1900 mPas |
| pH (25°C) | 1.4 - 1.6 |
| VOC | 0% |
| Ink solvency | Strong |

Agfa Graphics plate compatibility

| Digital plate technology | | | | | | | | | |
|--------------------------|-----------|------------------|------------------------|--------------|--------------------|---------------|---------------------|-------------------|-------------------------|
| Thermal | | | | | | | | | |
| :Azura TS | :Amigo TS | :Thermostar P970 | :Thermostar P970 baked | :Energy Xtra | :Energy Xtra baked | :Energy Elite | :Energy Elite baked | :Energy Elite Pro | :Energy Elite Pro baked |
| ✗ | ✗ | ✗ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Visible light | | | | | | |
|---------------|---------------|-----------|-------|-------|----------|------------------|
| :Aspire | :Aspire baked | :Azura-Vi | :N91v | :N94v | :N94-VCF | :Lithostar Ultra |
| ✗ | ✓ | ✗ | ✗ | ✓ | ✗ | ✓ |

| CtCP plate technology | | | Analogue plate technology | | |
|-----------------------|----------------|----------|---------------------------|---------------------|--------------|
| :Aluva P | :Aluva P baked | :Aluva N | :Meridian P55 | :Meridian P55 baked | :Zenith N555 |
| ✗ | ✓ | ✓ | ✗ | ✓ | ✓ |

ANTURA wash UV74A

Washes

Water miscible UV blanket & roller wash

Pro 20 Litres: **Art.Code** P93YQ
 Pro 2 x 200 Litres: **Art.Code** P93ZS
 Pro 1 x 1000 Litres: **Art. code** OA3KE

ANTURA Wash UV74A is a water miscible, medium drying wash, specially designed for the removal of UV and EB curable ink from blankets and ink rollers. The UV and EB curable ink is quickly and easily removed whilst maintaining the condition of the rubber surfaces. ANTURA Wash UV74A is suited both for manual and automatic application. ANTURA Wash UV74A is safe for EPDM rubber

Working instructions

Manual use: Blankets / Ink rollers

- Pre-mix with water (advised 70% wash, 30% water).
- On blankets: Apply pre-mix with a cloth or sponge, evenly covering the whole surface.
- On ink rollers: Spray pre-mix on ink rollers and rinse with water afterwards.

Automatic use

- Follow manufacturer's instructions.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Keep away from heat and direct sunlight.
- Keep the containers closed.
- Shelf life: 36 months from date of manufacture.

Main characteristics

- Excellent UV and EB ink removal properties.
- Suitable for manual and automatic use
- Suited for EPDM rubber
- Cleans quickly and thoroughly
- Reduces blanket tack
- Prevents swelling of the rubber
- Keeps rollers and blankets ink-receptive

Safety

Read MSDS before using this product.

Waste

Collect if possible, send to authorized disposal centres, in accordance with local and national regulations

Properties

| | | |
|-------------|--------------------|---------------|
| Chemical | Appearance | Colourless |
| | Classification | A III |
| | Flashpoint | 74 °C |
| | Density (25°C) | 0,95 kg/Litre |
| Press | Business forms web | ✓ |
| | Coldset web | ✓ |
| | Heatset web | ✗ |
| | Sheet-fed | ✓ |
| | Ink | UV inks |
| Application | Ink solvency | Strong |
| | Drying speed | Normal |
| | Water miscible | ✓ |
| | Automatic wash | ✓ |

Agfa Graphics plate compatibility

| Digital plate technology | | | | | | | | | |
|--------------------------|-----------|------------------|------------------------|--------------|--------------------|---------------|---------------------|-------------------|-------------------------|
| Thermal | | | | | | | | | |
| :Azura TS | :Amigo TS | :Thermostar P970 | :Thermostar P970 baked | :Energy Xtra | :Energy Xtra baked | :Energy Elite | :Energy Elite baked | :Energy Elite Pro | :Energy Elite Pro baked |
| ✗ | ✗ | ✗ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Digital plate technology | | | | | | |
|--------------------------|---------------|-----------|-------|-------|----------|------------------|
| Visible light | | | | | | |
| :Aspire | :Aspire baked | :Azura-Vi | :N91v | :N94v | :N94-VCF | :Lithostar Ultra |
| ✓ | ✓ | ✗ | ✗ | ✓ | ✗ | ✓ |

| CtCP plate technology | | | Analogue plate technology | | |
|-----------------------|----------------|----------|---------------------------|---------------------|--------------|
| :Aluva P | :Aluva P baked | :Aluva N | :Meridian P55 | :Meridian P55 baked | :Zenith N555 |
| ✗ | ✓ | ✓ | ✗ | ✓ | ✓ |

Antura CtP Plate Cleaner

Plate care

High ink solvency plate cleaner for all CtP plates

Pro 6 x 1 Litre: **Art.code** P909N

Antura CtP Plate Cleaner is developed according to the latest AGFA technologies and guaranteed to work with all AGFA CtP Plates. It has been developed alongside the plate to underline the complete CtP system strategy. This revolutionary new product (patented pending) removes efficiently ink, desensitises non-image areas.

Working instructions

- Shake before use.
- Apply Antura CtP Plate Cleaner directly onto the plate surface using a damp sponge applying sufficient pressure to remove any ink.
- Wash off immediately with water.
- Antura CtP Plate Cleaner should not be left on the image area for a prolonged period without buffing down.

Main characteristics

- Suited for all CtP technologies.
- Plate cleaner with high ink solvency.
- High flash point
- Removes scum, oxidation and light scratch marks.
- Optimised viscosity for easier application.
- Improves ink receptivity of the image.
- Improves hydrophilic properties of the non-image area.
- Stable emulsion.
- Provides protection during press stops.

Safety

Read MSDS before using this product.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Keep away from heat and direct sunlight.
- Keep the containers closed.
- Shelf life: 18 months from date of manufacture.

Waste

Collect if possible, send to authorized disposal centres, in accordance with local and national regulations.

Physical properties (Concentrated solution)

| | |
|--------------|----------------|
| Appearance | White emulsion |
| Flashpoint | > 61 °C |
| Density | 0.95 kg/litre |
| Viscosity | 1740 mPas |
| pH (25°C) | 2.2 |
| VOC | 20,5% |
| Ink solvency | Strong |

Agfa Graphics plate compatibility

| Digital plate technology | | | | | | | | | | |
|--------------------------|----------|----------|-----------------|-----------------------|-------------|-------------------|--------------|--------------------|------------------|-----------------------|
| Thermal | | | | | | | | | | |
| Azura TE | Azura TS | Amigo TS | Thermostar P970 | Thermostar P970 baked | Energy Xtra | Energy Xtra baked | Energy Elite | Energy Elite baked | Energy Elite Pro | Energy Elite Pro bake |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Visible light | | | | | | |
|---------------|--------------|----------|------|------|---------|-----------------|
| Aspire | Aspire baked | Azura Vi | N91v | N94v | N94-VCF | Lithostar Ultra |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| CtCP plate technology | | | Analogue plate technology | | |
|-----------------------|---------------|---------|---------------------------|--------------------|-------------|
| Aluva P | Aluva P baked | Aluva N | Meridian P55 | Meridian P55 baked | Zenith N555 |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ANTURA gum MAM1

Gums

General Machine finisher-gum

Pro 10 Litres: Art. code 4MQQ8

ANTURA gum MAM1 is a ready-to-use machine finisher for offset plates. This finisher-gum is developed as a machine finisher and can be used for manual application. The improved storage properties allows to use this gum for medium storage. The desensitising properties are strongly improved which gives more latitude towards fingerprints and scratches.

Working instructions

Machine application

- Fill the processor according to the instructions.
- Depending on the processor type, finisher-gum can be diluted 1:1, which may however have an adverse effect on storage.
- Optimise dryer settings to avoid viscosity increase.
- In case of biological contamination of the gum section : use Antura Bio Cleaner

Manual application

- For plate storage after printing, clean the plate with water and plate cleaner.
- Apply the finisher-gum in a thin equal layer over the whole plate surface.
- Buff down with a lint-free cloth, to form a thin, even film.
- Allow to dry.

Plate storage (golden rules)

Before printing, store the plates in a dry and heated place.

Recommended storage conditions are:

- temperature between 18 and 24 °C (64 and 75 °F).
- relative humidity < 70 %.
- Image side against image side, separated by interleaving paper.
- Verify that the humidity of the interleaving paper is not too high.

Main characteristics

- Ready-to-use (can be diluted up to 1/1).
- Designed for machine application (Manual application possible).
- Low viscosity gum.
- Medium-term storage.
- Compatible with most plates.
- Excellent desensitising properties

Physical properties (Concentrated solution)

| | |
|---------------|------------------------|
| Appearance | Yellow-brownish |
| Density | 1.105 ± 0.005 kg/Litre |
| Viscosity | 3.6 mPas ± 0.2 |
| pH (25°C) | 5.4 ± 0.15 |
| Gum substance | Potato dextrine |

Waste

Dispose in accordance with local and national regulations.

Safety

Read MSDS before using this product.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Shelf life: 24 months from date of manufacture.
- Keep away from heat and direct sunlight.
- Keep the containers closed.

Agfa Graphics plate compatibility

| Digital plate technology | | | | | | | | | | |
|--------------------------|-----------|-----------|------------------|------------------------|--------------|--------------------|---------------|---------------------|-------------------|-------------------------|
| Thermal | | | | | | | | | | |
| :Azura TS | :Azura TU | :Amigo TS | :Thermostar P970 | :Thermostar P970 baked | :Energy Xtra | :Energy Xtra baked | :Energy Elite | :Energy Elite baked | :Energy Elite Pro | :Energy Elite Pro baked |
| n/a | n/a | ✓ | ✗ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Visible light | | | | | | |
|---------------|---------------|-----------|---------|---------|----------|------------------|
| :Aspire | :Aspire baked | :Azura-Vi | :N91v * | :N94v * | :N94-VCF | :Lithostar Ultra |
| ✓ | ✓ | n/a | ✓ | ✓ | n/a | ✓ |

| CtCP plate technology | | | Analogue plate technology | | |
|-----------------------|----------------|----------|---------------------------|---------------------|--------------|
| :Aluva P | :Aluva P baked | :Aluva N | :Meridian P55 | :Meridian P55 baked | :Zenith N555 |
| ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |

* Still under investigation in newspaper applications

:Apogee Color Quality Manager

Some say **:Apogee Color Quality Manager** is a breakthrough in color management. That's because it lets users go beyond standard color management to create a custom, automated quality control system. We call it intelligent automation.

:Apogee Color Quality Manager provides advanced tools for everything from automating certified (Fogra, IDEAlliance) proofs to specifying adjustments for different presses, media or inks. It lets you match hard-copy proofs and soft proof to any printing press. The end result is consistency and simplicity in color management. This feature-rich quality and color management software integrates effortlessly with :Apogee Prepress Workflow Suite:

:SherpaProof

Date: 20100225; Time: 100516

  99.2%

| Apogee Color - Proof Validation Report | | | ISO 12647-7 |
|--|-------------|-------------|-------------|
| Category | ΔE Max | ΔE Average | ΔH |
| All patches | 2.67 (6.00) | 0.83 (3.00) | |
| Media | 0.36 (3.00) | | |
| Solid C | 1.67 (5.00) | | 1.52 (2.50) |
| Solid M | 1.50 (5.00) | | 0.53 (2.50) |
| Solid Y | 0.97 (5.00) | | 1.08 (2.50) |
| Solid K | 1.54 (5.00) | | 0.47 (2.50) |
| Overprint R | 0.87 (6.00) | | 1.63 |
| Overprint G | 1.15 (6.00) | | 2.45 |
| Overprint B | 0.51 (6.00) | | 0.86 |
| Grey Balance | | | 0.36 (1.50) |

- Repurposing: automatically maintains color integrity when you need to switch from one press to another or make a last-minute change that might affect color or quality output.
- Smart Input Space Recognition (SISR): automatically corrects the color of a PDF that has been separated in an undefined color space.
- Achieve certified output on SherpaProof systems fitted with a Spectro-Proofer measurement device.
- Generate press validation reports using color bar measurements to ensure maximum color consistency with InkSave.
- Color bar measurements used for the creation of Calibration curves for :Apogee Prepress based on linear and non linear press curves.
- Ensure color fidelity from input, through proofing, and all the way to the press with profile generation and editing tools.
- Set-up and validate hard-copy proofs according to the industry standard or any custom standard with closed loop characterization.
- Display Task Processors provides user controllable soft proofing, internally and externally: XML communication of soft proof workstations within the :Apogee workflow, tracking of the monitor quality and soft proof generation at display resolution.
- Fast zooming in the raster preview without quality loss with different zooming levels.
- Build custom color books in spectral mode.
- Visualize ICC profiles and compare ICC profiles inclusive gamut checking with 3D gamut viewer.



The :Apogee Color Family



www.bciimage.com

:APOGEE COLOR

:Apogee Color Family

866 971-1008

From design to press, :Apogee Color offers integrated solutions through the :Apogee Suite to ensure an end-to-end quality.

:Apogee Color Quality Manager offers the most intelligent automation so far, ranging from automatic certification of proofs to automatic and high quality adjustments when switching from one press or paper to another. It integrates quality enhancement solutions and color management tools into the :Apogee Suite and provide the tools to optimize custom ICC profiles.

:Apogee InkSave not only increases the quality of your output and stability of press, but in addition, it also saves you money and consumable wastage. And faster press start-up times.

:Apogee Proofing System, along with our :SherpaProof Systems family of proofers, helps manage and maintain color accuracy by providing the widest possible printable color gamut and predictable results from proof-to-press. It can deliver certified and consistent hard-copy proofs and soft proofs.

:Apogee Sublima is Agfa's advanced screening technology, and provides a simple, easy and cost-effective way to achieve higher screen rulings. It meets the demands for higher printed quality with no extra efforts on press.

:Apogee Color provides you with everything you need to produce the highest quality output predictably, time after time.

| | Features | Benefits |
|-------------------------------|--|--|
| :Apogee Color Quality Manager | <ul style="list-style-type: none"> Repurposing Automated certification output Smart Input Space Recognition (SISR) Agfa Advanced CMM | <ul style="list-style-type: none"> Maximum quality output on last-minute press changes Automatically provides certificate of conformance and quality for the proofs you give to your customers Enables correct output even when the PDF has been separated in an undefined color space Smooth and uniform color conversions with no unexpected results |
| :Apogee InkSave | <ul style="list-style-type: none"> Reduces amount of ink used when printing Intelligently replaces color ink with black ink | <ul style="list-style-type: none"> Saves costs Faster press start-up, reducing further waste Gives greater press stability Less rosette structure gives sharper images Produces far more consistent greys |
| :Apogee Proofing System | <ul style="list-style-type: none"> Soft-proofing Hard-copy proofing | <ul style="list-style-type: none"> Speeds up the production cycle Is ecological and economical A certified reference for the print buyer and printer A permanent record of what is agreed |
| :Apogee Sublima | <ul style="list-style-type: none"> Uses FM in highlights and shadows Prints to higher screen rulings Rosette structure not visible | <ul style="list-style-type: none"> Prints to 1% highlights and 99% shadows Prints razor-sharp detail Flat tints appear smooth |



Color is critical. It's what makes a particular brand instantly recognizable. Perfect skin tones, mouth-watering berries, shimmering chrome, subtle shades of gray and dreamy tints are why consumers reach for one product over another.

Achieving life-like, accurate color shouldn't be difficult. That's why Agfa integrated **:Apogee Color** into the :Apogee Prepress Workflow Suite. It delivers end-to-end quality and color management—automatically. So regardless of which type of system, device, media and equipment you use, color quality just happens. Guaranteed.

It works seamlessly with image-perfecting applications such as :Sublima screening, and ink optimization software such as :Apogee InkSave. You can generate certified hardcopy proofs or softproofs with absolute color assurance. **:Apogee Color** makes procedures such as manual calibration a thing of the past and color integrity a matter of routine.

Color is critical. Print producers who believe in perfection want advanced color control. That's why Agfa created **:Apogee Color Quality Manager**, intelligent color automation. It gives you a palette of tools for optimizing and fingerprinting output quality to meet your exact specifications. You can set quality adjustments for switching from one press or paper to another. Or correct output of a PDF file that has already been separated in an undefined color space. It ensures consistent color quality under any conditions, even for your most complex projects.

:Apogee Color Quality Manager gives you more than automated color control. It provides the means to adjust, manipulate and perfect color output at every stage of the workflow. And then, make it flawlessly repeatable. It's absolute color control. Simplified.

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:Apogee Proofing



:Apogee Sublima

B.C.I.
IMAGING

www.bciimage.com
866 971-1008

:Apogee InkSave

Saving on ink cost is of course a great benefit. :Apogee InkSave also improves color stability on the press as well as overall image quality and consistency. This can be even more beneficial for the press room.

:Apogee InkSave increases quality

Less information in the color separations means registration errors become less visible. Rosette structures are less visible, so images appear sharper. No color deviations are visible when the original color separations of images and text are compared to the Inksaved result. Every color transformation is calculated by the Agfa Graphics patented Advanced CMM (Color Management Module) using industry standard or customer ICC profiles. Grey made up from CMY can easily change with the slightest variation of ink weight on press and introduce color casts. :Inksave avoids this, and produces far more consistent grey. The InkSaved artwork not only gives constant results throughout the complete press-run but also maintains stable color reproduction which can be viewed under any lighting conditions. In other words, color consistency is improved as well as stability of printing on press.



Agfa Graphics' proofing solutions work in tandem with the :Apogee Prepress solution to guarantee digital file integrity throughout the workflow. :Apogee Proofing is the perfect answer for reliable and predictable proofs.

Both Soft and Hard-copy proofing are fully integrated in the :Apogee workflow, providing high-quality and totally consistent results that enable you to conform to industry standards every time.

Adhering to industry standards is critical in today's production environment. It allows production partners to exchange files and be sure that they all will achieve the same quality result. Standards also bring consistency within an organization.

Proofing is used to communicate this quality reference throughout the workflow. Therefore, proofs have to be made according to standard requirements. Printing conditions are simulated with strict procedures for measuring colors. Feeding this trend is the need for quality accreditation by independent graphic institutes like FOGRA and IDEAlliance®.

Soft-proofing

- Speeds up the production cycle
- Saves on transport time and couriers costs
- Offers additional services to customers and print buyers
- Is ecological and economical

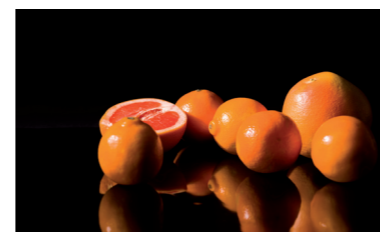
:Apogee Color provides a color accurate and user controllable soft proof for in-house proof verification, or remotely via :Apogee Portal. It provides print buyers with immediate and accurate feed-back.

Hard-copy proofing

- Offers a dynamic environment for art-work approval
- Enables production partners to be sure that they will all achieve the same quality result
- Is a certified reference for the print buyer and printer
- A hard-copy proof is made as a permanent record of what is agreed
- Constitutes a contract between print buyer and printer

Agfa's Proofing solution, along with our :SherpaProof systems, helps manage and maintain color accuracy by providing the widest possible printable color gamut and predictable result from proof-to-press. It delivers certified proofs.

Agfa's :Sublima Screening technology delivers stunning image quality with no extra effort on press, and without sacrificing pressroom productivity. :Sublima is Agfa's intelligent screening technology, providing even higher quality when used with Agfa platesetters and plates. Its advanced Cross-modulation (XM) technology combines the proven quality of Agfa Balanced Screening (AM) with Agfa's patented FM screening implementation. The result is a remarkably simple, easy and cost-effective way to achieve much higher screen rulings. :Sublima screening provides a strong competitive edge in the marketplace by delivering vibrant colors and extraordinary detail that captures reality on paper. :Sublima provides benefits across the full tonal range of reproduction, delivering excellent shadow and highlight reproduction, and very clean tints.



From delicate gossamer to rugged leather and wood grains, :Sublima screening reproduces textures with a wealth of fine detail in large and small image formats with no additional effort or capital investment. Regardless of image size, :Sublima's consistently higher quality delivers details you can almost feel with your eyes.



:Sublima makes every silky strand of this handsome mane leap from the page. The bright white detail held with :Sublima screening heightens the impact of the photographs with an intensity that conventional screening can't match.



With InkSave



Without InkSave

:Apogee InkSave increases productivity

- Shorter press set-up time required to stabilise the color tones, and neutral grey balance in print.
- Less ink is put on the paper; resulting in a better ink setting, increased printing speeds and faster drying times.
- Less drying powder is required and post press activities can start earlier. Folding, cutting and binding can start earlier and run at a faster pace.

:Apogee InkSave saves money

The total ink coverage used during printing is reduced, with black ink now replacing a proportion of the colored inks previously used. Both factors contribute to substantial cost savings.

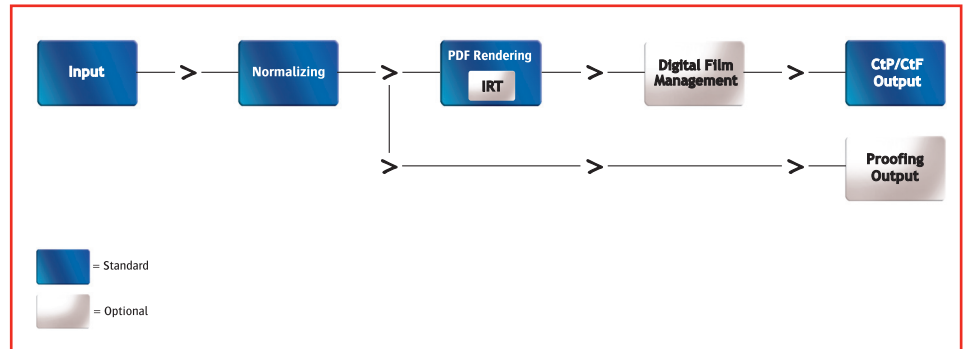
- In commercial print applications we have measured substantial ink savings of between 10% and 30%.



To see the performance of InkSave in more detail, please look at the InkSave sample brochure (NGRDO)

:APOGEE PREPRESS

:Apogee Control



Complete Control over Output

:Apogee Control delivers control functionality over your film output, plate making, and proofing. With an intuitive graphical interface, it is easy to learn and use. Yet, it lets you control the power of :Apogee. You can let jobs process without interruption or intervene at any time. Drag-and-drop tools let you interact in real-time, stop or start output, change output priority, view digital film before imaging to plate or remake a plate if required. :Apogee Control can be configured in different ways to take on your output production needs.

The Perfect Fit for Service Bureaus, Prepress Companies and Small Printers

:Apogee Control was designed for operations that rely on off-the-shelf applications to produce pages or fully imposed flats. Easily and reliably, it takes PS, EPS, and PDF files and renders them for output to Agfa's wide range of platesetters and filmsetters, using acclaimed screening- and the latest plate technologies and to proofing devices. With :Apogee Control, setup and configuration is simple. Whether you are a seasoned user or new to prepress workflow, the unique graphical user interface intuitively helps you manage and track print jobs, control output queues, generate page and imposition proofs, or soft proof screened and trapped digital films.

Import and Process Legacy Files

:Apogee Control can be enhanced with import and conversion tools to enable simple integration with your legacy workflow. Resolution of imported files can be adjusted to match the resolution of the output device, or can be descreened, down-sampled and colour-managed for colour accurate output to a wide range of Agfa's :SherpaProof proofing solutions.

A Scalable Solution for Expanded Functionality and Productivity

:Apogee Control is scalable, adapts easily to match your exact throughput requirements and expand productivity as needed. A flexible licensing system enables you to add production enhancers and scale from a single-platform solution to a multi-platform workhorse. Once scaled, built in Fault Tolerance features provide additional security and minimized down-time in the event a computer platform or hard disk fails.

An Upgrade Path to Leverage Your Investments

As your production requirements change, Agfa can offer a simple upgrade path to :Apogee Manage, extending the functionality with fully integrated preflighting, and imposition, or further enhance the functionality with various unique automation features by upgrading to :Apogee Integrate.



Features and Benefits

Hot folder, AppleTalk, Named Pipe, TCP/IP, LPR input channels:

Allow input from any Mac, PC, or Unix based applications.

Hot Tickets: Customized Production Plans for fully automatic (hands-off) output of print jobs. They graphically describe all required processing steps for a job: from page proofing to content proofing, to final output on CtF or CtP imaging devices.

Job Tracking & Controlling: Easy-to-use tools let you monitor the progress of a print job and interact with it to either hold, resume, delete, change its priority, approve/reject, perform remakes, or archive to near- or offline backup solutions.

MSDE database: Logs all job related processing information and keeps track of all resources such as production files, fonts, ICC profiles, and halftone screens. Logging information can be easily shared with any ODBC compliant applications for cost calculation purposes.

Adobe PDF Print Engine: Renders PDF files natively to digital films, using the latest available technology. The Adobe PDF Print Engine eliminates the need to flatten transparent artwork upfront providing consistency of output. Combined with the Agfa Graphics' colour management and screening technology, the APPE enables a more efficient and reliable end-to-end PDF workflow.



In-Render Trapping (IRT) (enhancer): Provides automated hands-off trapping of pages or signatures. Influence trap-zones using the TrapSpotting plug-in for Adobe Acrobat.

Screening: Agfa Balanced Screening and :Sublima 200lpi. Optional :CristalRaster FM screening and :Sublima XM screening for screen rulings above 200lpi.

Soft Proofing: The default contone previewer enables viewing of Digital Film to check for correct separation, overprint, knockout, and trapping. The optional Raster Preview allows you to see the real dots the way they will image on film or plate.

Hardcopy Proofing (enhancer): Using the same Adobe based renderer that generates the digital film, quality proofs are generated from pages and signatures, providing 100% data integrity. Quality of the proofs can be enhanced even more if output is wanted to one of the many :Sherpa or other selected proofing devices, by defining and monitoring the output using :Qms.



:Apogee PlateMaker Link: Enables seamless integration with an :Apogee PlateMaker providing additional digital film management tools, redundant platemaking and connectivity to legacy workflows and engines.

Ten :Apogee Client Licenses: A native graphical application for Macintosh and PC, enables ten operators to logon to :Apogee Control simultaneously to create and submit Hot Tickets, manage and track print jobs, manage output devices and proofers, or manage the entire :Apogee Control. Options are available to extend the number of clients.

:APOGEE PREPRESS

:Apogee Control

Enhanced Quality and Connectivity



| :Apogee Control | Enhancers |
|---|-----------|
| Complete Control over Output | |
| Adobe based Normalizer | • |
| Multi-flow production plans | • |
| Production influencing actions such as archiving and notify | • |
| :Sublima 200 lpi | • |
| Conversion of spot colours to CMYK using the Pantone® libraries | • |
| Upgrades | |
| Upgrade to :Apogee Manage or :Apogee Integrate | 0 |
| Digital Film Manager & Raster Processing | |
| Digital Film Management/Room | 0 |
| Web Growth - compensation for paper stretching on web presses | 0 |
| Quality Enhancer | |
| Adobe PDF Print Engine | • |
| In-Render Trapping (IRT) | 0 |
| :ABS Options Kit | 0 |
| :CristalRaster | 0 |
| :Sublima at line rulings above 200 lpi, depending on platesetter and plate technology | 0 |
| Proofing Enhancer | |
| Raster Preview | 0 |
| Hardcopy Proofing inclusive :Qms - Quality management for colour contract proofing | 0 |
| Connectivity Link | |
| InkDrive - automatic CIP3 or CIP4 ink key setup generation | 0 |
| OpenConnect - import screened DCS and 1-bit TIFF | 0 |
| Non Agfa Output Link | 0 |
| :Apogee PlateMaker Link | • |
| Scalability | |
| Additional Output Capacity including Fault Tolerance support | 0 |

• = standard
0 = enhancer

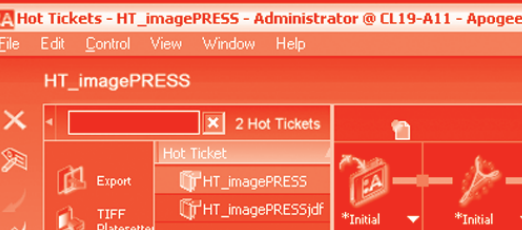
For a complete list of enhancers, please contact your local Agfa Graphics sales representative.

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:APOGEE PREPRESS

:Apogee DigitalPrint Link

Digital press integration through CIP4 Digital Print ICS compliant JDF



:Apogee DigitalPrint Link enables printers to integrate their digital presses with :Apogee Prepress using industry standard CIP4 Digital Print ICS compliant JDF/JMF.

:Apogee Prepress' traditional tasks of page- and imposition proofing and plate-making are extended when integrating with a digital press. Prepress operators will be able to manage the creation of proofs, plates and the digital prints from within a single graphical user interface. In addition to typical digital print jobs, the digital press can also be used for commercial print job pre-runs/pre-series, job re-runs and to create validation proofs, such as completely "finished" dummies or mock-ups. This is done in generally less time than with traditional proofing methods and with the added bonus that the end result can be finished into a folded and stapled booklet.

Since the same :Apogee Prepress renderer is used for all traditional prepress and new digital tasks, customers will enjoy the highest level of print integrity.

KEY BENEFITS:

Drive proofers, CtP and digital presses from a single prepress workflow

- Only requires one easy to use graphical user interface
 - Prepress department prepares and controls
 - Press operators print and monitor output quality
 - Easy job setup: Imposition control
- Single point of workflow control

Efficient and streamlined production

- Time and cost savings by choosing output device inhouse
- Repurposing of the same resources and pages
- Manage and track jobs from a single UI

Ease of use

- Automated production and imposition control
- Combine traditional and digital print workflows within a single production plan

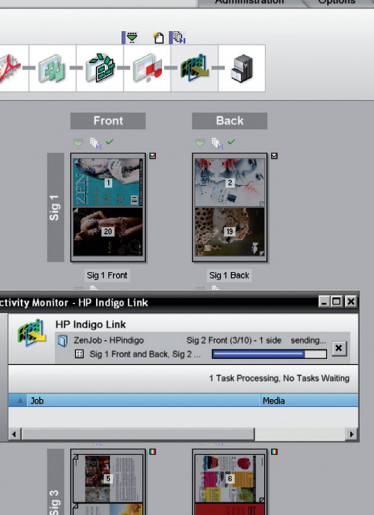
Re-use training and software/hardware investments

Production advantages & control

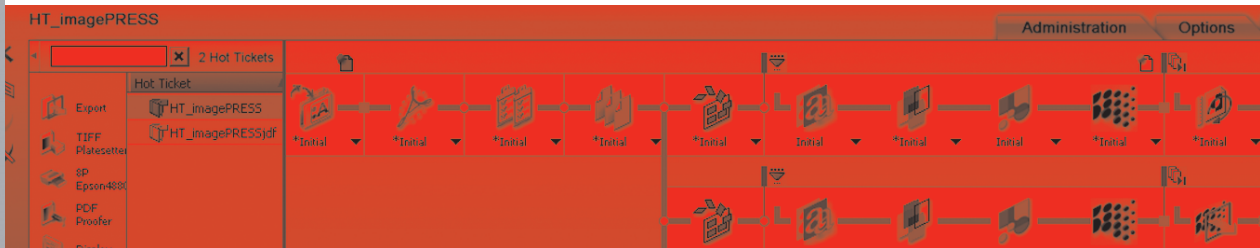
- All jobs submitted from :Apogee Prepress
- Better control over Creep, Bleed Crop, Trim and Page Boxes
- Higher throughput due to scaled/load-balanced architecture
- Spot colour processing
- Combine and process multi-page documents

Use of the same resources and proven processing components provides the highest print integrity and consistency

- ICC-profiles, fonts, ...
- :Apogee Preflight, Adobe Normalizer and Adobe PDF Print Engine rendering technology



:Apogee DigitalPrint Link



FEATURES:

Unified hybrid prepress workflow solution

- Manage prepress workflows for offset litho print production and automate on-demand print jobs on digital presses using one prepress workflow
- Content and colour quality defined and controlled by prepress workflow
- Common use of processing components and resources
 - Normalizer, Renderer, ICC-profiles, fonts, ...
- Identical workflow
 - Common processing adds consistency and provides print integrity

Integration of the digital press is based on CIP4's Digital Print ICS (Job Definition Format/Job Messaging Format)

- JDF is used to submit jobs from :Apogee Prepress including digital press specific parameters, such as paper type and size, screening and finishing
- JMF is used to
 - receive information about the digital press capabilities, which will show up as selectable features/parameters in :Apogee Prepress
 - to receive information about the configured media
 - receive information on print production status and various digital press related notifications s.a. door open, out of media, cancelled and deleted jobs
 - receive notifications when job is printed for accounting & cost calculation purposes

PROVIDES:

- Automation of prepress tasks and output
- Job tracking and updating
- Production follow-up
- Files sent to the digital press are rendered by prepress and ready for digital output

Supporting a range of digital presses

- Canon imagePRESS C7010VP/C7000VP/C6000VP/C6000/C1/C1+ digital color presses
- Integration with EFI Fiery F JDF towards Xerox, Ricoh and Konica Minolta
- Integration with CreoPODS Creo Color Server
- Integration with HP Production Manager Pro towards HP Indigo presses
- Integration with Konica Minolta IC601 towards bizhub PRESS

SPECIFICATIONS:

- :Apogee DigitalPrint Link is an optional functionality of the following :Apogee Prepress 8 products:
 - :Apogee Manage
 - :Apogee Integrate

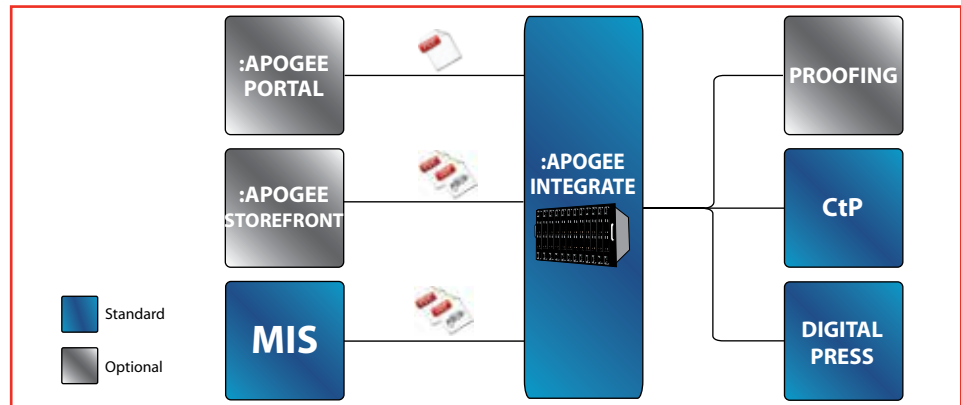
Customers should consult with their local digital press sales and/or service representatives for the latest hardware and/or software requirements.

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:APOGEE PREPRESS

:Apogee Integrate



Controlled Prepress Workflow Automation for Commercial Printers

:Apogee Integrate is a fully integrated, prepress production system. While automating prepress production, a graphical interface offers a complete and comprehensive overview of the actual processing and of the job status. It also includes an extensive array of tools to interact with jobs at any time and influence the automated processing. With :Apogee Integrate, Agfa brings you the benefits of PDF, JDF, and Digital Film. It connects prepress production with business processes and other JDF aware applications for seamless, end-to-end workflow automation.

The Solution for integrated Printing plants

:Apogee Integrate is designed to accommodate the production needs of large commercial printing operations. Using rules, or specific conditions, smart decisions are made on how jobs or job parts are to be processed. For maximum automation, communication through JDF is provided to connect :Apogee Integrate with any JDF enabled MIS system. Through JDF (Job Definition format) intake, prepress tasks are defined and jobs are automatically processed. To track job progress and calculate costs, JMF (Job Messaging format) is added for real-time reporting of page revisions, number of proofs and plates made, incl. plate remakes, back into the MIS system.

An Integrated Solution Completing all Prepress Tasks

:Apogee Integrate provides integrated PDF creation, preflighting and imposition. It lets you manage and track jobs, control output queues, request plate remakes, generate page and imposition proofs, or soft proofs of screened and trapped digital films.

:Apogee Impose automatically generates the most optimal imposition, including all necessary marks based on job specific requirements and the company's production capabilities such as printing presses and finishing equipment. It reduces errors and increases prepress performance significantly.

A Scalable Solution for Expanded Functionality and Productivity

:Apogee Integrate adapts easily and economically to match any of your functionality and throughput needs. It can be scaled to a multi-platform workhorse, even above 4 platforms. Built in Fault Tolerance features provide additional security, minimizing down-time and maximizing production, even with a system or hard disk failure.

For maximum efficiency, reliability and availability, :Apogee Integrate supports VMWare virtualization software.

:Apogee StoreFront link

:Apogee StoreFront is the web-to-print module of the :Apogee Suite. It enables print service providers to set up stores for their customers and generate orders online.

:Apogee StoreFront integrates seamlessly with :Apogee Manage. New print orders are downloaded automatically and sent to the appropriate production flow. Processing can start without any operator intervention, saving time and avoiding double data entry.

Features and Benefits

Job Tracking & Management: Easy-to-use tools lets you monitor the progress of a job and interact with it to either hold, resume, delete, change its priority, approve/reject, perform remakes, or archive to near- or offline backup solutions.

Integrated Imposition (enhancer): Automated imposition based on job parameters and production capabilities.

MSDE database: Logs all job related processing information and keeps track of all resources such as production files, fonts, ICC profiles, and halftone screens. Logging information can optionally be shared with any ODBC compliant applications for cost calculation purposes.

Adobe PDF Print Engine: Renders PDF files natively to digital films, using the latest available technology. The Adobe PDF Print Engine eliminates the need to flatten transparent artwork upfront providing consistency of output.

Combined with Agfa Graphics' colour management and screening technology, the APPE enables a more efficient and reliable end-to-end PDF workflow.



JDF/JMF (MIS)Link: It facilitates in the automation of print production. When :Apogee Suite is integrated with other JDF/JMF enabled products, s.a. a MIS system or a Press Control system, jobs originating from within the MIS are automatically passed along to :Apogee Suite. The received JDF will automatically setup a job in :Apogee Suite, select the required parameters, and create all necessary proofs and plates. Production information, s.a. job status and created page proofs, plates and references to ink key data are automatically communicated back to the MIS via JMF, or the location of the ink key data is communicated directly to the Press Control system, so it knows where to pick it up.

:Apogee PlateMaker Link: Enables seamless integration with an :Apogee PlateMaker providing additional digital film management tools, redundant platemaking and connectivity to legacy workflows and engines.

In-Render Trapping (IRT) (enhancer): Provides automated hands-off trapping of pages or signatures. Influence trap-zones using the TrapSpotting plugin for Adobe Acrobat.

Screening: Agfa's Balanced Screening and :Sublima 200 are standard. :CristalRaster FM screening and :Sublima XM screening at line rulings above 200 lpi can optionally added.

Comprehensive Job Tickets - MultiFlow Production Plans:

Provides automated "hands-off" processing of jobs through a single job ticket that graphically describes all required processing steps, from PDF creation, preflighting, to imposition; from page proofing to content proofing, to final output on CtF or CtP imaging devices. Multi Part Job workflow is a new way to create and process jobs with different parts (for example cover & body) that require different processing. Easy setup and simplified viewing and filtering make the Multi Part Job functionality a powerful tool to process, control, and adjust the most complex jobs in no time.

Export PDF, PDF/X-1, PDF/X-1a, and PDF/X-3 (enhancer): Provides reliable colour managed file exchange to media and print production applications.

Hardcopy Proofing (enhancer): Using the same Adobe based renderer that generates the digital film, quality proofs are generated from pages and signatures, providing 100% data integrity. Quality of the proofs can be enhanced even more if output is wanted to one of the many :Sherpa proofing devices, by defining and monitoring the output using :Qms.

Soft Proofing: The standard contone previewer enables viewing of Digital Film to check for correct separation, overprint, knock-out, and trapping. The optional Raster Preview allows you to look at the real dots the way they will image on film or plate.

:APOGEE PREPRESS

:Apogee Integrate

Enhanced Quality and Connectivity

:Apogee Integrate

Enhancers

Controlled Workflow Automation

| | |
|--|---|
| Conditional processing specification | o |
| Naming conventions | • |
| JDF Job creation - Dynamic creation & submission of jobs based on MIS specifications | • |
| JMF communication - Automatic feedback on page proof and plate (re)image status to MIS | • |

Digital Film Manager & Raster Processing

| | |
|---|---|
| Digital Film Management/ROOM | o |
| Web Growth - compensation for paper stretching on web presses | o |

Imposition

| | |
|---|---|
| Digital QuickStrip (DQS) - raster based imposition | o |
| Split for Proof | o |
| :Autostrip - Converting MIS input to an imposition layout | • |
| PDF-based Plate Versioning | • |
| :Apogee Impose - Automate imposition based on job requirement | o |

Quality Enhancer

| | |
|---|---|
| In-Render Trapping (IRT) | o |
| :Sublima at line rulings above 200 lpi, depending on platesetter and plate technology | o |
| :InkSave - Increases press performance and reduces production cost | o |
| Adobe PDF Print Engine | • |
| :Apogee Preflight – Optimizing PDF to job specific production requirements | • |
| Acrobat Pro Toolbar, including Trap Spotting, Varnish & Screening plugin | • |

Proofing Enhancer

| | |
|---|---|
| Raster Preview | o |
| Hardcopy Proofing - Inclusive :Qms - quality management for contract proofing | o |
| :Apogee Color Quality Manager - Including press repurposing | o |
| :Apogee WebApproval | o |

Connectivity Link

| | |
|---|---|
| :InkDrive - automatic CIP3 or CIP4 ink key setup generation | o |
| :Apogee PlateMaker Link | • |
| Postpress Link - JDF-based setup of finishing equipment | • |
| Digital Print Link - drive digital presses in a hybrid environment | o |
| :Apogee StoreFront Link: Automatically download and process orders from your on-line stores | • |

Scalability

| | |
|--|---|
| Additional Output Capacity including Fault Tolerance support | o |
| Additional PDF Processing Capacity | o |

• = standard

o = enhancer

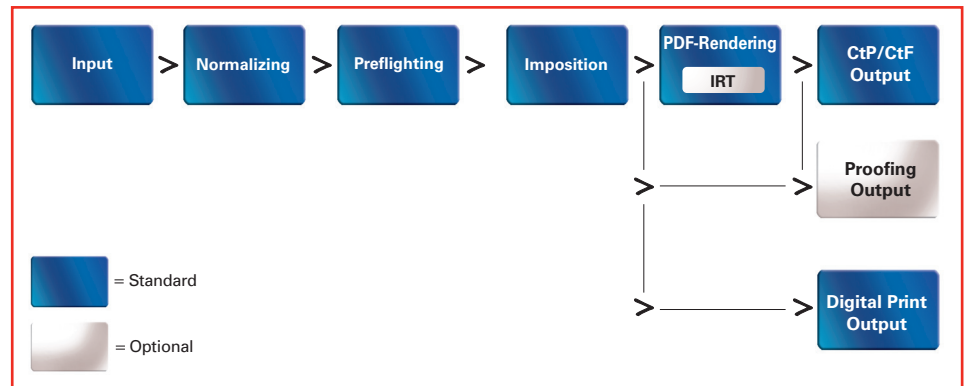
For a complete list of enhancers, please contact your local Agfa Graphics sales representative.

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Apogee PREPRESS

Apogee Manage



Prepress Tasks Made Simple

Apogee Manage gives you exactly what you need to manage your complete prepress workflow simply and reliably. It comes with advanced tools to handle PDF creation, preflighting, page management, imposition, plate making and can also include proofing and trapping. Because it is so easy to learn and use, you'll benefit immediately from a streamlined and truly integrated prepress workflow.

The Most Cost-Effective Way to Manage Your Prepress Workflow

Designed for printing companies that produce a lower volume of plates, Apogee Manage provides a complete solution that runs on a single platform. It integrates powerful tools normally found only in high-priced production systems such as automatic trapping, preflighting, imposition and proofing. Its intuitive drag-and-drop user interface lets you graphically create a production plan. The resulting job ticket will contain all necessary information to manage all different processes of prepress production reliably and efficiently.



A Scalable Solution for Expanded Functionality and Productivity

To meet changing performance requirements :Apogee Manage can also be scaled to a multi platform solution with Fault Tolerance functionality. If your business goals include diversification with digital print services, you can extend typical commercial offset workflow tasks to a hybrid workflow environment driving digital presses based on JDF/JMF. The re-use of prepress knowledge and workflow capabilities will increase efficiency by streamlining the production.

As your business grows or your needs change, a simple upgrade from :Apogee Manage to :Apogee Integrate will give you access to more powerful tools.

Efficient Delivery and Approval of Page Content

:Apogee Manage can be enhanced with the optional :Apogee WebApproval – providing web-based page-upload and approval services to print buyers. Email notifications inform the print buyer about pages that await approval. As an additional service, preflight reports are made available to inform the print buyer on errors in the delivered pages, and to allow corrective measures without unnecessary delays. The approval cycle is in real-time; removing the time it typically takes when approving hardcopy proofs. It also provides savings on shipping costs, since there is no hardcopy proof that needs to be sent back and forth between you and the print buyer.

Intelligent, automated imposition.

To further optimise the production, :Apogee Impose uses all available job information like, page size, colours and product part. This product intent and the production capabilities of the printing presses and finishing equipment, build the imposition scheme intelligently, placing the marks on the right spot. When product intent changes, like the amount of colours or pages, the production parameters and all the marks automatically get adapted. This is obtained as :Apogee Impose is an integral part of the :Apogee User interface giving operators a single dashboard for all press tasks.

:Apogee StoreFront link

:Apogee StoreFront is the web-to-print module of the :Apogee Suite. It enables print service providers to set up stores for their customers and generate orders online.

:Apogee StoreFront integrates seamlessly with :Apogee Manage. New print orders are downloaded automatically and sent to the appropriate production flow. Processing can start without any operator intervention, saving time and avoiding double data entry.

Features and Benefits

Comprehensive Job Tickets - Production Plan - MultiFlow:

Provides a single job ticket that graphically describes all required processing steps for a job, from PDF creation, preflighting, to imposition and trapping; from page proofing to content proofing, to final output on any of the supported CtF or CtP imaging devices. Multi Part Job workflow is the most efficient way to create and process jobs with different parts (for example cover & body) that require different processing. Easy setup and simplified viewing and filtering make the Multi Part Job functionality a powerful tool to process, control, and adjust the most complex jobs in no time.



Job Tracking & Management: Easy-to-use tools let you monitor the progress of a job and interact with it to either hold, resume, delete, change its priority, approve/reject, perform remakes, or archive to near- or offline backup solutions.

:Apogee Preflighting: Dynamically validates and optimizes the PDF-files based on production requirements.



Page Management: Select and drop the required pages for the job on the right place holder. At a single glance view whether the document page size matches the defined page size of the imposition. Scale, rotate and offset the pages to obtain the perfect fit. Manage page revisions automatically .

Integrated :Apogee Imposition (enhancer): Provides automated imposition of PDF pages based on job requirements and the production capabilities.



Adobe PDF Print Engine: Renders PDF files natively to digital films, using the latest available technology. The Adobe PDF Print Engine eliminates the need to flatten transparent artwork upfront providing consistency of output.

Combined with Agfa Graphics' colour management and screening technology, the APPE enables a more efficient and reliable end-to-end PDF workflow.

In-Render Trapping (enhancer): Provides automated hands-off trapping of pages or signatures. Influence trap-zones using the TrapSpotting plug-in for Adobe Acrobat.



Hardcopy Proofing (enhancer): Using the same Adobe based renderer that generates the plates, quality proofs are generated from pages and signatures, providing 100% data integrity. Quality of the proofs can be enhanced even more if output is wanted to one of the many :Sherpa and other selected proofing devices, and its quality is managed using Qms.

Screening: Agfa's Balanced Screening, :Sublima 200, and optional :CristalRaster FM Screening and :Sublima XM Screening at line rulings above 200 lpi.

Soft Proofing: The contone previewer enables viewing of Digital Film to check for correct separation, overprint, knockout, and trapping. The optional Raster Preview allows you to see the real dots the way they will image on film or plate.

:APOGEE PREPRESS

:Apogee Manage

Enhanced Quality and Connectivity

:Apogee Manage

Enhancers

Integrated Workflow Management

| | |
|---|---|
| Page Management (including offset, scaling, page revision handling) | • |
| Imposition based on PJTF and JDF | • |
| PDF based Plate Versioning | • |
| Multi part job support | • |
| :Apogee Impose - Automate imposition based on job requirements | 0 |

Upgrades

| | |
|------------------------------|---|
| Upgrade to :Apogee Integrate | 0 |
|------------------------------|---|

Digital Film Manager & Raster Processing

| | |
|---|---|
| Web Growth - compensation for paper stretching on web presses | 0 |
| Digital Film Management/ROOM | 0 |

Proofing Enhancer

| | |
|---|---|
| Raster Preview | 0 |
| Hardcopy Proofing including GDI-driver support and :Qms - quality management for colour contract proofing | 0 |
| Split for Proof | 0 |
| :Apogee WebApproval | 0 |

Quality Enhancer

| | |
|---|---|
| Recombine pre-separated PDF and Postscript files for improved processing | • |
| :Sublima at line rulings above 200 lpi, depending on platesetter and plate technology | 0 |
| In Rip Trapping (IRT) | 0 |
| Adobe PDF Print Engine | • |
| :InkSave - Increase press performance and reduce production cost | 0 |
| :Apogee Preflight – Optimizing PDF to production requirements | • |
| Acrobat Pro Toolbar, including Trap Spotting, Varnish & Screening plugin | • |

Connectivity Link

| | |
|---|---|
| :InkDrive - automatic CIP3 or CIP4 ink key setup generation | 0 |
| Non Agfa Output Link | 0 |
| :Apogee PlateMaker Link | • |
| Digital Print Link - drive digital presses in a hybrid environment | 0 |
| :Apogee StoreFront Link: Automatically download and process orders from your on-line stores | • |

Scalability

| | |
|--|---|
| Additional Output Capacity incl. support Fault Tolerance | 0 |
| Additional PDF Processing Capacity | 0 |

• = standard

0 = enhancer

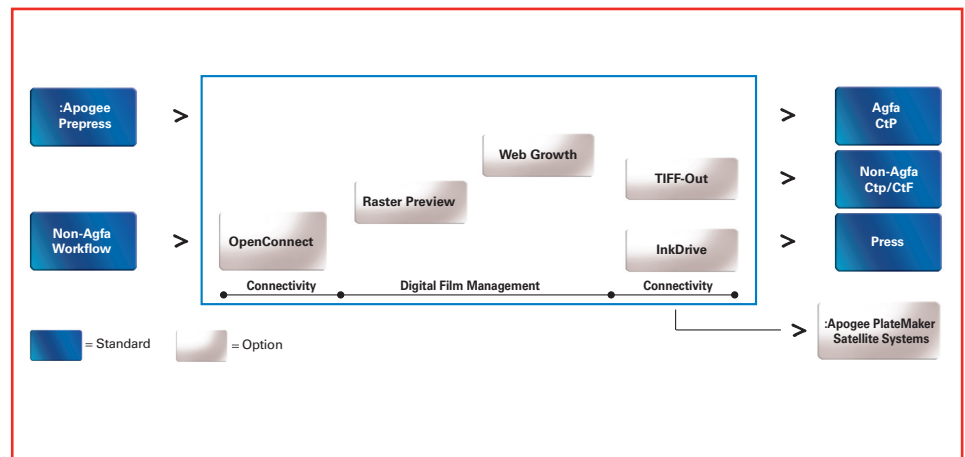
For a complete list of enhancers, please contact your local Agfa Graphics sales representative.

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:APOGEE PREPRESS

:Apogee PlateMaker



Powerful Digital Light Table to Control and Automate Output

:Apogee PlateMaker is a dedicated solution for plate output that guarantees efficient and continuous plate production. It acts as a buffer between the prepress department and the printing presses providing the pressroom with the necessary plates and ink key files. It is fully integrated in the prepress production workflow and all necessary production information is communicated with :Apogee Integrate and even :Apogee Render based on JMF. As a digital film buffer, :Apogee PlateMaker can receive input through multiple input channels, but will distribute the jobs towards several CtP devices.

The easy-to-use graphical interface allows you to view the status of all jobs, as well as manipulate and manage the output timing and priorities. Press operators can also use :Apogee PlateMaker in case of a plate remake: a fully imposed plate preview and a quick search function allow fast plate identification and reduce press stand still significantly.



Advanced Connectivity and Workflow Optimisation

Because :Apogee PlateMaker is built on an open architecture, it works with any workflow to optimise your printing operation. It accepts input from both Agfa and non-Agfa workflows and it outputs to a wide array of devices. Through its OpenConnect Link :Apogee PlateMaker integrates Agfa output engines in non-Agfa workflows.

Whether you're using :Apogee Prepress solution, :Apogee Series3, a third party workflow, or no workflow software at all,

:Apogee PlateMaker makes you and your system more productive.

:Apogee PlateMaker's automatic load balancing feature will also keep your operation running smoothly and efficiently. It automatically analyses the workload and distributes work to the appropriate output devices so that you maximise your output productivity at all times.

Better Engine and Print File management

:Apogee PlateMaker monitors the CtP engines and permits redirection to different engines or media. If an engine is down, an alternate engine can be substituted without re-ripping jobs. As a result, the guarantee of consistency with the approved (soft)proofs and the final print is maintained. Priorities can be set on a job-by-job basis or even changed if desired. Entire groups of jobs can be prepared in advance for 2nd and 3rd shift output.

Integration with Printing Presses

Because the workflow does not end with plate output,

:Apogee PlateMaker automates production even further downstream by integrating with the press via CIP3/CIP4 capabilities.

The :Apogee PlateMaker InkDrive Link enables you to set ink keys for a wide range of leading presses automatically. Press profiles let you match the specifications of popular presses and press control software resulting in reduced ink usage and paper waste, and shortening the time to be up to colour.



Compensating for Web Growth

Press miss-registration can have several causes. One of them is the physical distortion of paper when it's printed. The combination of paper stock, ink and water absorption, condition of blankets, type of press used, and the tension and pressure that are applied to the paper while being printed have a great influence on the printed end result. Many presses are fitted with necessary features to compensate for web growth, but often the applied corrections are not enough, or it just can't be done. :Apogee PlateMaker can overcome this problem by compensating for any miss-registration upfront and at the level of the digital film. Through Agfa Graphics patented digital dot etching and the use of its unique Web Growth compensation feature you can define reductions of different amounts in different areas by using web growth compensation profiles. These profiles contain the characteristics of the web growth for different presses and/or printing media. :Apogee PlateMaker will not apply these compensations to the original digital film, but instead automatically apply them on the fly when outputting to a platesetter or filmsetter. :Apogee PlateMaker Web Growth compensation can be used in any workflow, can be applied to any (imported) file, and then output to any output device without compromising preview job approval features.

Dual Plate Loading For Enhanced Productivity and Output Efficiency

The :Apogee PlateMaker Dual Plate Loading feature works in tandem with a specified set of Agfa Graphics' :Avalon-N engine and enables the loading and imaging of two individual plates side by side and in a single motion. For maximum throughput and output efficiency, support is provided for manual and auto loader configurations.

Other Features and Benefits

Automatic load balancing for platesetter output - using :Apogee PlateMaker Satellites multiple identical output devices can be configured for automated load balancing and last minute redirection. Maximizing engine productivity at all times.

Engine and print file management - :Apogee PlateMaker tracks available media and permits redirection of jobs to different engines or media. Entire groups of jobs can be prepared in advance for second and third shift output. Job tracking ID features ensure that a file is identified quickly for re-imaging, if necessary.

Immediate support for plate re-makes - If a plate is lost, breaks or wears out, the convenient :Apogee PlateMaker user interface makes it easy to locate the appropriate digital film and remake the plate in the shortest time possible.

Reporting of plate consumption - When :Apogee PlateMaker integrates with a JDF/JMF enabled :Apogee Prepress system such as :Apogee Manage or :Apogee Integrate, it can report the number of plates imaged. This important info can be communicated to JDF enabled MIS systems for reporting and cost calculation purposes.



:APOGEE PREPRESS

:Apogee PlateMaker

Enhanced Quality and Connectivity

| :Apogee PlateMaker | Enhancers |
|---|-----------|
| Digital Film Management | |
| Job tracking & Management | • |
| Digital Film Management including fast plate remake | • |
| Raster Preview | 0 |
| Web Growth - compensation for paper stretching on web presses | 0 |
| Dual Plate - two plates side by side (Only for Agfa CtP that include this function) | • |
| Connectivity | |
| Connectivity with Agfa CtP devices | • |
| Restore and output PrintDrive Series3 archives | • |
| OpenConnect - Process 1-bit TIFF input | 0 |
| InkDrive - automatic CIP3/CIP4 PPF ink key generation | 0 |
| Connectivity with non-Agfa CtF/CtP devices | 0 |
| JMF feedback of production data to the :Apogee Prepress system | • |
| Quality and Productivity | |
| Additional Output Capacity | 0 |
| Retarget digital films to alternate CTP | • |

• = Standard

0 = Enhancer

For a complete list of enhancers, please contact your local Agfa Graphics sales representative.

:APOGEE PORTAL

:APOGEE STOREFRONT



Today, people making purchases online is a given. Print buyers are no exception. And why not? They can place an order from any web browser at their convenience — 24/7. And they have come to expect a secure process with immediate feedback and fast turnaround.

Add to Cart



:Apogee StoreFront is a cloud based web-to-print solution that lets you meet these expectations, and more. It lets you setup and manage online stores for ordering both print and non-print products. It lets you streamline processes while you expand your reach to a broader audience with additional services. Its rich feature set makes it an ideal e-commerce solution for printers, full-service providers and creative agencies. It is suitable for offset as well as digital print and large format printing. As :Apogee StoreFront is cloud-based and easy to use, you won't have to invest in additional technology or personnel.