

Plate for violet diode CtP imaging

# Lithostar Ultra LAP-V



## ***Violet imaging technology - bringing exceptional quality, speed and reliability***

The Lithostar Ultra LAP-V plate has been designed specifically for the new breed of violet diode platesetters. Lithostar Ultra LAP-V takes silver halide technology to new levels of quality, consistency, reliability and ease of use. The advanced violet sensitive coating technology allows resolutions of 1-99% at 200 LPI and brings new levels of quality to your press room.



# Lithostar Ultra LAP-V

*Lithostar Ultra LAP-V is the worlds most successful violet sensitive digital plate.*

## **Violet - the latest technology**

The remarkable success of Violet CtP is due to a combination of long laser lifetimes, razor sharp imaging, low operating costs, ultra-fast plate exposure and high quality press performance. All this with a plate that can be handled in near white light conditions. Violet imaging technology is already taking visible light CtP technology to new levels of performance and convenience. With Lithostar Ultra LAP-V Agfa has a plate that can be relied upon to meet all your current and future needs.

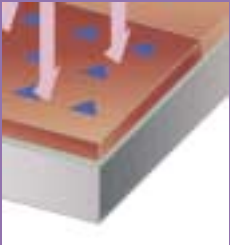
## **Violet CtP - designed for high performance**

Lithostar Ultra LAP-V is a positive working aluminum plate that delivers stunning performance when exposed on a 400-410nm violet diode platesetter. High quality graining and anodizing technology ensure that press performance is optimized to deliver fast make ready and consistent quality. Agfa's high-resolution silver-halide plates are a proven success with printers who need a flexible plate right for almost any midlength (350,000) run from business forms to newspapers to high-resolution four-color work. In each case, Lithostar Ultra brings the unvarying consistency and unbeatable quality that ensure successful final results on press.

## **Lithostar Ultra LAP-V: Advanced plate technology from Agfa**

Unparalleled expertise in violet CtP technology has allowed Agfa to create the worlds most successful violet sensitive digital plate. Proven silver halide coating technology gives ultra-fast plate exposures ensuring maximised platesetter productivity. Advanced coating technology ensures a wide exposure latitude, this together with a wide processing latitude guarantees high quality plate imaging every time.

Years of manufacturing experience results in the highest levels of production quality and consistency for Lithostar Ultra LAP-V — ensuring that your pressroom is supplied with predictably high quality plates that will give consistent press performance.



**Step 1: Exposure**  
 During exposure of a Lithostar Ultra plate, the laser activates the silver-halide particles in the exposed areas. The unexposed silver particles eventually form the image after chemical reaction with the developer.



**Step 2: Development**  
 During development, the exposed/ activated silver-halide particles are developed and fixed securely inside the emulsion layer. Particles that were not exposed remain very mobile and capable of diffusion.



**Step 3: Diffusion**  
 In the diffusion stage, unexposed silver ions transfer from the emulsion layer, through the barrier layer, and to the aluminum base, forming the final printing image.



**Step 4: Wash off**  
 After image transfer/diffusion is complete, the emulsion and the water-soluble barrier layer are completely removed, leaving only the final printing image on the aluminum substrate.

## Lithostar Ultra: The smart choice for high-quality visible-light plates

### **New silver-halide technology**

Lithostar Ultra is a high-speed aluminum plate based on Agfa's proven silver-halide technology, which provides an ideal, robust solution for digital imaging. Agfa has more than a decade of experience developing and manufacturing silver-halide plates of the highest quality, and currently holds many patents in this area. Now technological enhancements and improved manufacturing take silver-halide plates even further. The result is Lithostar Ultra — the world's most advanced visible-light plate.

At every stage, Lithostar Ultra is smart-engineered to provide the exceptional resolution you need — as well as the reliability you've come to expect from Agfa, the leader in digital plate technology.

### **A stable, durable aluminum substrate**

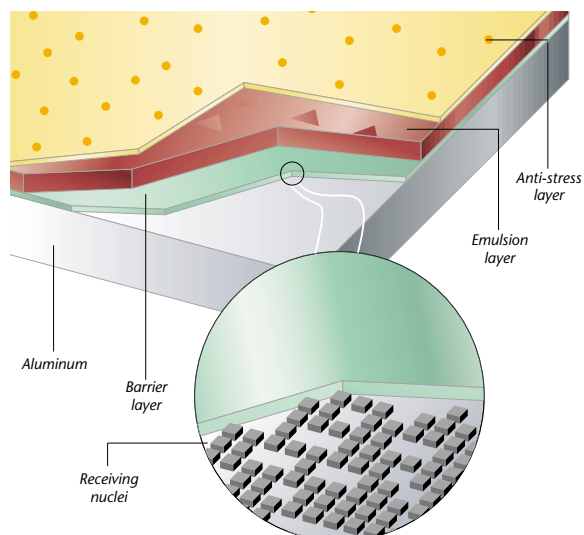
Lithostar Ultra features an HCI-grained and anodized aluminum substrate that provides the solid foundation for exceptional performance. Graining improves adhesion with the image layer, while anodizing improves durability and prevents scratching. Lithostar Ultra incorporates improved electrochemical graining and anodizing that enables Lithostar Ultra to deliver the hard dots and imaging sharpness necessary for high-resolution platesetting.

### **A sensitive silver-halide coating**

Lithostar Ultra's coating layer includes silver-halide particles evenly distributed and suspended in a gelatin layer.

During exposure, the laser exposes and fogs the non-imaged areas, which are removed during development. In the image areas, the silver migrates downward through the emulsion and adheres to the aluminum substrate. In the final wash stage, any remaining traces of gelatin are washed away from the image area. Lithostar Ultra requires less washing.

The non-imaged silver is safely washed away and recovered for reuse.



# Lithostar Ultra LAP-V

## The smart choice for digital plates

Agfa offers the broadest line of digital plates in the industry, including thermal (Thermostar), thermal non-ablative process-less (Thermolite Plus), silver halide (Lithostar Ultra), photopolymer (N91), and polyester (Setprint) plates. So you can choose the Agfa plate that meets your quality and run length requirements. To extend our plate leadership, we continually push the boundaries of consistency and quality with new plate technologies.

## The world's choice for computer-to-plate solutions

Only Agfa offers the full range of platesetters, plates, processors, RIPs, screening technologies, digital proofing solutions, workflow expertise, and other prepress systems and consumables necessary for your success. For complete, high-quality platesetting solutions that give you a choice, look to Agfa — the world leader in computer-to-plate technology and expertise.



|                      | <b>Lithostar Ultra LAP-V</b>  |
|----------------------|---|
| <b>Feature</b>       | <b>Lithostar Ultra LAP-V</b>  |
| Plate type           | Positive-working, high speed, laser exposed   |
| Coating              | Silver-halide emulsion, high sensitivity  |
| Surface              | Electrochemically grained and anodised  |
| Sizes                | Standard sheet-fed and web sizes  |
| Spectral sensitivity | Violet laser diode (400nm-410nm)  |
| Exposure energy      | 26m <sup>1</sup> /m <sup>2</sup> at 400nm-410nm   |
| Resolution           | 1%-99% at 200 LPI   |
| Image colour         | Black   |
| Processing speed     | 2.5cm/second  |
| Storage conditions   | Unprocessed plates: temperature < 32°C, relative humidity < 70%<br>Processed plates: temperature 18 - 24°C, relative humidity < 70% |
| Run Length           | 350,000*  |

\*dependent on press conditions

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