

DOD UV INKJET SYSTEM

# FLUENTE Delta

- High printing quality and speeds
- UV inks
- Environment-friendly
- Substrate flexible
- Easy to integrate
- Cost-efficient
- User-friendly



usb  
ready

printer  
error  
vacuum  
production  
low pin level  
head temperature

Atlantic  
ZEISER

delta



purge

up

down

## FLUENTE Delta

# UV Inkjet Printing Systems

- Meet the technical criteria for modern, cost-effective coding and serialization
- Achieve top print quality with resolutions up to 600 x 600 dpi
- Single-pass spot color printing – UV
- Software adjustable drop size for ink saving and quality enhancing
- Allow top speeds up to 200 m/min (680 f/m)
- Print width 105 mm (4.1 inches)
- Can be used with a ZEISER VIVO system and other transport systems
- Standard communication interfaces
- Ready for Adobe PDF



### Typical Applications

- Tax stamps, governmental documents and certificates as well as labels and lottery tickets
- Products with frequently changing text, graphics, numbers, barcodes and 2D codes for coding, serialization, customization, personalization, individualization

### Your Challenges

- Short product lifecycles
- Efficient just-in-time production of short runs
- Small batch sizes
- Cost transparency
- Substrate flexibility
- High printing quality
- Inline/offline printing and coding
- Country specific information
- Different bar code requirements

## Our Solution

FLUENTE Delta printer family for security printing and coding



Technical Specifications		FLUENTE Delta 105 UV		FLUENTE Delta 105i UV	
Print Width		105 mm 4.1 inches		105 mm 4.1 inches	
Native Resolution		600 dpi		600 dpi	
Resolution Horizontal [dpi]	Max. Print Speed [m/min]	600 300	60 120	600 300	120 200
Droplet Volumes		6 – 17 pl (variable)		6 – 17 pl (variable)	
Standard Colors		Black		Black	
Custom Colors		Yes		Yes	
Smallest Readable Font Size		3 pt		3 pt	
Substrates		Most lacquered, laminated and glossy materials (packaging), plastics, metals, foils			
Possible Printing Directions		Vertical		Vertical	
Ink Types		UV (UVA, UVC)		UV (UVA, UVC)	
Jetting Technology		Piezo DoD		Piezo DoD	
Dimensions (h x w x d) [mm]		297 x 230 x 90		297 x 230 x 90	
Dimensions (h x w x d) [inches]		11.7 x 9 x 3.5		11.7 x 9 x 3.5	
Communication Bus		USB, Ethernet			
Standard Delivery		Printer, adjustable integration bracket, ink supply system, job editor software, production software, installation kit			
Options		UV lamp dryer, UV LED dryer, Adobe PDF			

## ZEISER's excellent service and support

- Efficient preventive and corrective maintenance
- Fast emergency and extended service support
- Installation and start-up support
- Remote service support and hotline
- Customized and individual after-sales service concepts
- Tailor-made service contracts
- Professional training and workshops
- Worldwide service network with local service teams incl. part and supply service
- Consulting

ZEISER's systems allow the individualization and tracking of each unique product using printing/coding and camera-based product verification. These solutions ensure data integrity and security across the entire production process and throughout the entire supply chain to point of sale – ultimately reducing risk for the consumer. ZEISER has decades of experience and core competencies relevant to the security printing industries and draws on its strong expertise to accomplish system integration projects essential to the implementation of powerful track & trace solutions. The customers benefit from a proven turnkey solution for in-house serialization and individualization. ZEISER offers a wide range of end-to-end high-resolution UV inkjet printing solutions in the industry, including modules and accessories.

## SERENO – the formulated curing technology for your requirements

The compact modules cure UV-A and UV-C inks in a highly efficient and environment-friendly manner thanks to the increased productivity, low heat radiation onto the substrate and practically no generation of hazardous ozone. We call this eco-friendly curing technology.

SERENO ideally match with ZEISER inks and **FLUENTE Delta** UV printers.

Technical Specifications	SERENO Air 150 UV-A	SERENO Air 150 UV-C
Illuminated Area (w)	150 mm   5.9 inches	150 mm   5.9 inches
Curing Power max.	240 W/cm	240 W/cm
Module Dimensions (h x w x d)	260 x 253 x 160 mm   10.2 x 10 x 6.3 inches	
Curing	UV-A lamp source (ozone-free)	UV-C lamp source (ozone-free)
Ideally Suited for Use with	<b>FLUENTE</b> Delta 105 UV	<b>FLUENTE</b> Delta 150 UV
Available Inks	ZEISER UV-A inks	ZEISER UV-C inks
Standard Delivery	Curing module; curing controller	
Options	UV shield	

### Overview of ZEISER's high-resolution printer family for different printing ranges and substrate needs

- **FLUENTE iZ2** printing systems (UV inks): very fast printing speed with high resolution; extremely robust with easy to handle ink supply
- **FLUENTE Delta** printing systems (UV or water-based inks): wide printing range with high resolution and high speed
- **FLUENTE Omega** printing systems (UV inks): high printing quality with spot color; extremely versatile, robust and cost-efficient

### ZEISER offers customized system configurations to meet your application requirements

- Production management software (i.e. T&T): **HARMONY**
- Inkjet printers: **FLUENTE**
- Curing devices: **SERENO**
- Transport systems: **VIVO**
- Verification systems: **VERO**

Exclusive Partner for the Security Printing Industry **ZEISER GmbH**. With many years of knowledge and expertise for non-impact serialization of security documents such as tax stamps, lottery tickets, transport tickets.



#### ZEISER GmbH

Bogenstrasse 6-8  
78576 Emmingen-Liptingen | Germany  
Phone: +49 7465 9278-0  
Email: sales@zeiser.com

[www.zeiser.com](http://www.zeiser.com)