# ZEISER
## CREATING IDENTITY

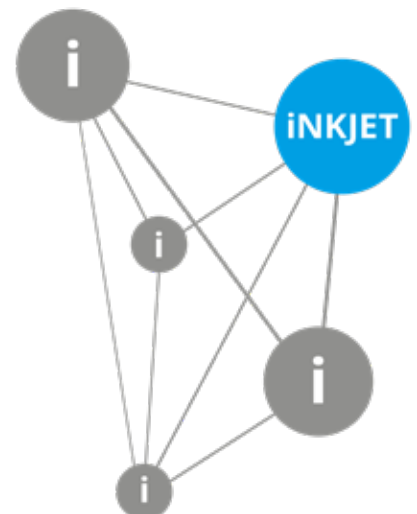## DOD UV INKJET SYSTEM
# FLUENTE iZ2 | iZ4

- Versatile and cost-effective solution for serialization
- Patented ink delivery
- Small footprint and turn-key design
- Print width 54 or 108 mm
- High speed/resolution ratio
- Upside-down printing

## i5 EXPERTISE

iNKJET

# i**Z**2 | i**Z**4 Print Solution

The high resolution FLUENTE i**Z**2 | i**Z**4 inkjet system provides a versatile and cost-effective solution for variable data printing on a wide range of substrates. The i**Z**2 | i**Z**4 is suitable for all barcodes, 2D codes, numbering, personalization, and logos and graphics. The design is ideal for tax stamps, security bags, government documents and certificates, as well as for labels, stamps and lottery tickets etc. The modular system architecture offers simple expansion for a limitless array of synchronized data for all applications.

## Key Features & Benefits

- Small footprint and turn-key design offer easy integration and on multiple transports → LOW INVESTMENT COSTS
- Simplified ink delivery system ensures reliable operation → LOW MAINTENANCE COSTS
- Variable DPI printing and multiple "drops per spot" options allow for customization ensuring → LOW PRINTING COSTS
- Hot swap of ink bottle → SHORT DOWNTIME
- Print head of latest generation → BEST QUALITY ON VARIOUS MATERIALS (up to 600 x 600 dpi)
- High speed capability (up to 274 m/min) → MAXIMUM PRODUCTION SPEED
- Rapid start-up → QUICK PRODUCTION READINES
- User friendly software interface → FAST INTUITIVE LEARNING



## FLUENTE i**Z**2 | i**Z**4 Print Head Details

The FLUENTE i**Z**2 | i**Z**4 uses a RICOH Gen5 piezo 2.13" | 4.26" (54 mm | 108mm) print head. The printer supports up to 600 x 600 dpi printing with drop customization for best quality.



## Compact Size

One of the important elements in the design of the FLUENTE i**Z**2 | i**Z**4 inkjet system was the smallest possible footprint. It was not only attention paid to a space-saving design for the print head but also for the ink supply with the integrated interface board. For the first time, trying to find space on your equipment for bulky ink handling systems and print heads is no longer a concern. Almost any space available – the FLUENTE i**Z**2 | i**Z**4 will fit!

## Premium Capability at Lowest Cost

Our customers are constantly striving to remain competitive and differentiate themselves. With an FLUENTE i**Z**2 | i**Z**4 printer you can be ahead of the market with this highly cost-effective printing solution. The initial cost of the FLUENTE i**Z**2 | i**Z**4 is lower than other solutions. Taking into account reduced maintenance, efficient use of inks and reliability, the FLUENTE i**Z**2 | i**Z**4 printer has the lowest total cost of ownership. However, this cost-effective printing solution does not mean a compromise in performance or quality. The FLUENTE i**Z**2 | i**Z**4 is a solid performer with very high throughput and incredible quality and durability of the print.

## Upside-Down Inkjet Printing

FLUENTE i**Z**2 | i**Z**4 can be mounted below the web to print from bottom to top. No additional space is required for reversing the web through a mechanical turner bar.



## Printing System

Patented ink delivery system connected through umbilical tube with i**Z**2 | i**Z**4 print head (tube length approx. 1.6 meter | 6 feet).



## Status Information & Connections





## Groundbreaking Design

Simplicity is the key to the FLUENTE i**Z**2 | i**Z**4 design. From the patented ink delivery system, integrated electronics, rugged housing and interface connections, the i**Z**2 | i**Z**4 is a self-contained and cost-effective solution for high quality, high speed printing on almost any material.

The FLUENTE i**Z**2 | i**Z**4 uses an innovative and simplified ink delivery system. This patented innovation eliminates the complex issues of pressure and meniscus control, and the related difficulties with ink flow, flooding, air sensors, and valves. There are none.

The new solution offers unparalleled reliability and ease of operation. Additionally, the system configuration greatly reduces the number of connections, tubes and failure points that are so common in other systems. When necessary, the nozzle cartridge can easily be changed on site without disassembling the ink delivery system and connections. The system can be installed, prepared, and operational in the shortest time.

## Ease of Use

With decades of experience in the numbering and serialisation markets, ZEISER remains the world leader in designing and delivering printing solutions that are simple to integrate and easy to operate. The FLUENTE i**Z**2 | i**Z**4 offers rapid start up, and job changeover with higher speeds and substrate versatility than TIJ systems.

## Technical Specifications

| Description | Performance | Description | Performance * | |
|---|---|---|---|---|
| Print Width | iZ2: 54 mm \| 2.13"<br>iZ4: 108 mm \| 4.26" | Print Speed 150 dpi | 356 m/min | 1200 f/min |
| Resolution | 600 dpi | Print Speed 300 dpi | 274 m/min | 900 f/min |
| No. of Drops | 1 to 3 | Print Speed 600 dpi | 137 m/min | 450 f/min |
| Drop Level ( 1 \| 2 \| 3 ) | 7 pl \| 14 pl \| 24 pl | Ink Types | UV | |
| Frequency Response | 60 kHz | Jetting Technology | Piezo DoD | |
| Custom Colors | Yes | Communication | Ethernet | |
| Smallest readable font size | 3 pt | Power Requirement | 240/115 V AC | |
| Standard Delivery | Printer, adjustable integration bracket, ink supply system, production software, encoder, sensor | | | |
| Options | UV lamp dryer, UV LED dryer (water cooled with chiller/air cooled), pinning units | | | |

*Speeds will vary with ink type and drop size.

**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 Vanni printing systems (solvent-based inks):
  flexible mounting options; large variation of inks available
- FLUENTE Vanni Pro printing systems (water-based inks):
  wide printing range with high resolution and high speed

ZEISER offers customized system configurations to meet your application requirements

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

**ZEISER GmbH**
Friedrich-Wöhler-Str. 11
78576 Emmingen-Liptingen
Phone +49 7465 9278-0
sales@zeiser.com
**www.zeiser.com**