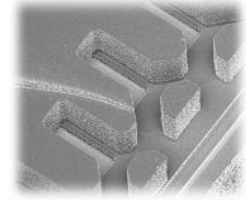


Digital Microfluidics



# Yellowstone+™

## Disposable Aqueous Cartridge

### Key Specifications

- ¼” (6mm) throw distance
- Single use
- Single color
- Water-based inks
- ½” (13.5mm) print swath
- 600 DPI
- Drop mass: 22pl\*
- 12 kHz per nozzle\*

### Key Applications

- Primary package coding
- Secondary case/tray coding
- Mailing/Addressing
- Variable data coding (lot/expiration)
- Other porous substrates

### Contact Us

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\* Fluid Dependent

### About Yellowstone+

Yellowstone+ is a disposable monochrome aqueous industrial cartridge with 640 nozzles and a ½” print swath. With a 24kHz printing speed, Yellowstone+ nearly doubles the speed and/or resolution of the competition. Common uses include text, barcodes, and graphics on porous and semiporous substrates.

The cartridge design features long open times with aqueous inks while ensuring a low cost of operation. On chip READ/WRITE memory ensures that only approved inks are utilized in OEM partner machines.

### Target Customer

The ideal customer:

- Utilizes porous and semi-porous substrates.
- Values low-cost, high-resolution printing
- Runs small-to-medium production batches.
- Requires fast ink changeout.

### Print Speed Table

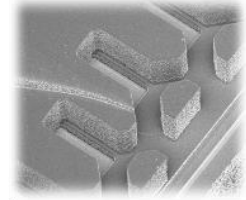
12 kHz Print Speed Translation			
Horizontal DPI	Max. Line Speed* (Single Channel)	Max. Line Speed* (Dual Channel)	Sample Print Image (Simulated)
300	200 ft/min (~61 m/min)	400 ft/min (~122 m/min)	
150	400 ft/min (~122 m/min)	800 ft/min (~244 m/min)	
75	800 ft/min (~244 m/min)	1,600 ft/min (~490 m/min)	

### Powered by Funai

Funai focuses on research and development of thermal inkjet microfluidics for specialty printing, life sciences, and consumer applications. With more than 450 printing related patents, Funai is recognized as a top tier microfluidic designer and manufacturer with scaling capabilities to partner with global industries.



## Digital Microfluidics



### About

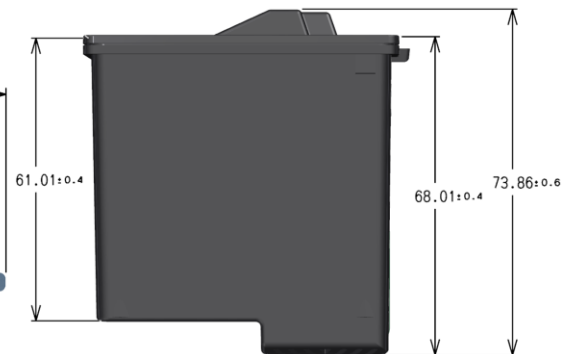
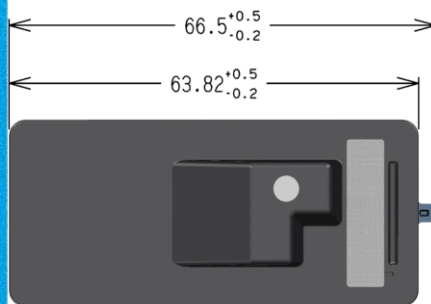
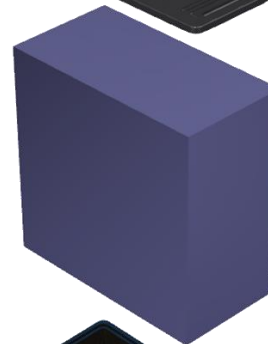
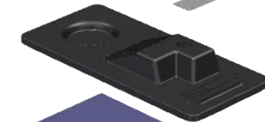
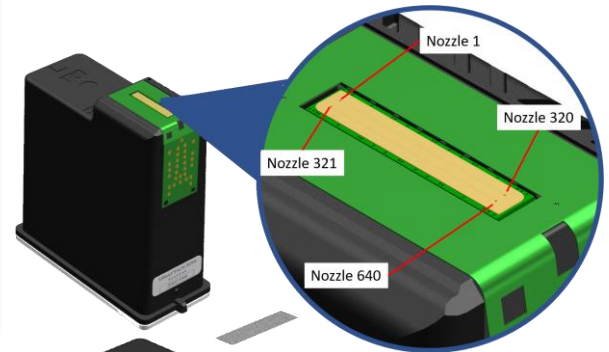
Model	Funai Model No: BE**XB	
Environmental Protection	RoHS / REACH	
Printable Images	Text Barcodes Graphics	
Ink Capacity	Ink fill (avg)	35ml
	Deliverable ink (avg)	28ml
Nozzles	640 (two rows of 320)	
Heater Pitch	600 DPI	
Print Swath	0.532" (13.5mm)	
Firing Frequency	12 kHz per nozzle*	
Pen Stall	Shetland	
Nozzle Sealing Method	Nozzle Tape	
Reservoir Type	Foam	

### Usage

Working Location	Indoor	
Working Temperature	5C~35C (~40F-95F)	
Working Humidity	8%-80% (non-condensing)	
Compatible Solvents	Aqueous <10% Ethanol	
Ink Properties	PH	7-8
	Surface Tension (dynes/cm)	24-45
	Viscosity (cP)	2-10
	Particle Size (nm)	111.00
Filling Method	Vacuum filler (LOBOZAR TECHNIK)	
Drop Size	22pl*	

### Dimensions and Storage

Size(mm)	28.8(W) x 74.0(H) x 66.5(D)	
Weight	32g	
Storage Temperature	1C-43C (~34F-110F)	
Storage Humidity	5%-80% (non-condensing)	
ATM Pressure	<1609 (~5280ft)	



# Yellowstone+

\* Fluid Dependent

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