

STARFIRE® SG600 C-Series

Designed for Ceramic Tile, Decorating,
Glazing, Engobe, Glues, Enamels, and
Structured Surfaces

The innovative FUJIFILM Dimatix STARFIRE SG600 inkjet printhead is designed to meet the demanding needs for ceramic tile production. It is purpose-built for today's demanding high-speed scanning and single-pass industrial system designs. This family of drop-on-demand printhead simply integrates into high performance systems and are available in single-channel or dual-channel configurations with print resolution up to 600dpi. It uses field proven materials to deliver consistent output over a long service life with REDIJET® continuous ink recirculation. The printhead is fully repairable. It is equipped with a replaceable metal nozzle plate assembly that is designed to withstand abrasion and resist damage. The unit is compatible with oil and solvent based ceramic inks.

Performance

- 600dpi resolution with drop sizes ranging from 6–80pL that allow for optimal and efficient use of ceramic inks
- 1536 individually addressable jets
- Versadrop binary and grayscale jetting with open and editable waveform utility
- Single and two-channel configurations

Productivity

- High ink laydown of 20 grams per square meter of ink per minute at production speed for high quality output to meet demanding ceramic tile decoration requirements*
- REDIJET® — Dual recirculation for reliable jetting & Support fast system start-up
- Maximize uptime for high productivity and return on investment
- Enables robust system design for end user up-time and productivity

*20kHz with 80pL drop using test (typical) fluid

Durability

- Industrial capabilities meet customer demands in industrial environments
- Robust (repairable) design enabling cost-effective maintenance and support
- Reliably use challenging jetting fluids used for ceramic tile decoration

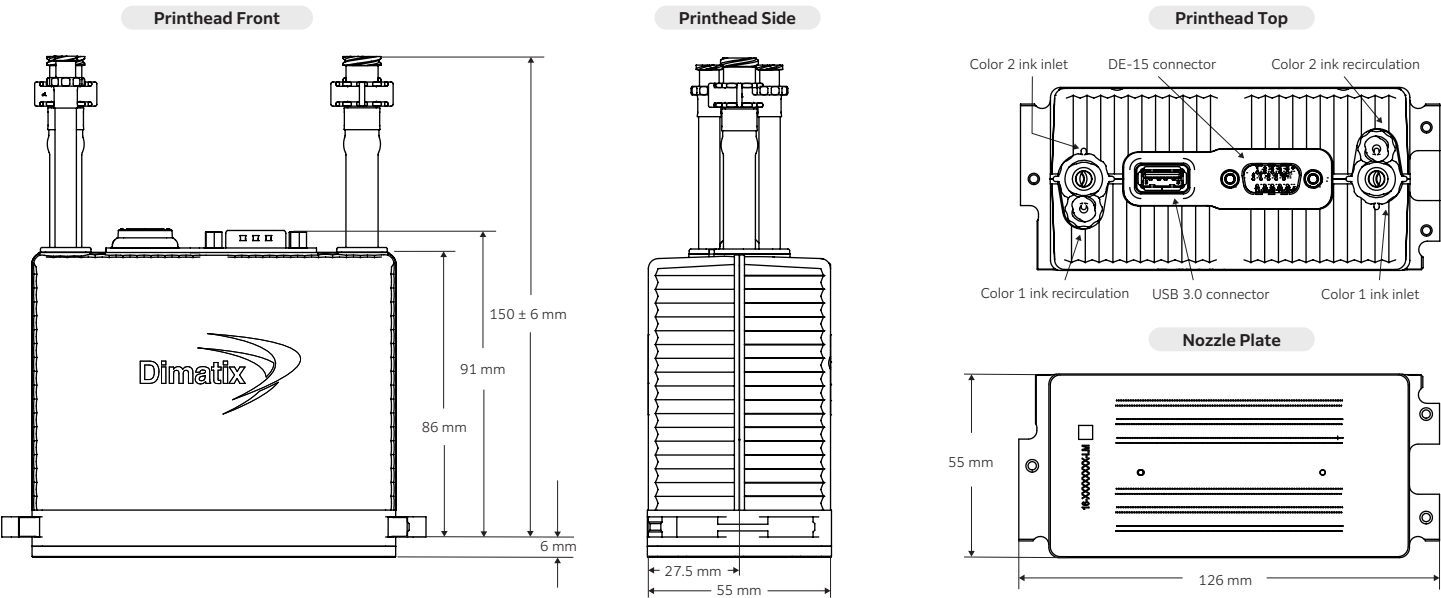
Support

- Backed by industry-leading support organization
- Dedicated worldwide field organization to ensure successful product development
- Lab and quality assurance investigative team to ensure satisfaction with FUJIFILM Dimatix products through your product lifecycle

Technical Specifications

STARFIRE SG600	XSC	SC	MC2C
Number of Addressable Jets / Module	1536		
Print Width (mm/in)	64.96 (2.55)		
Native Resolution (dpi)	600 (300 2C)		
Firing Frequency (kHz)	50 / 18	50 / 18	30 / 12
Versadrop Max Productivity (ng-kHz)	300	600	900
Native Drop Size / Largest Drop Size (pL)	6 / 20	12 / 33	30 / 80
Nozzle Plate Technology	Metal		
Compatible Fluids	Oil & Solvent based ceramic inks		
Viscosity Range (cP)	8–20 (10–14 for highest productivity)		
Temperature Control	Yes		
Inkjet Operating Temperature Range (C/F)	Up to 50°C / 122°F		
Integrated Temperature Sensor	Included		
OEM Accessible Non-volatile Memory	64-byte rewritable		

Physical Characteristics



Product characteristics and depictions are not drawn to scale and are general illustrations only. Technical specifications above may vary based on usage conditions and overall system environment.

For design and engineering work using this STARFIRE printhead, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.

FUJIFILM

Corporate Office:
FUJIFILM Dimatix, Inc.
2250 Martin Avenue
Santa Clara, CA 95050
USA
Tel: 1 (408) 565-9150
info@dimatix.com

New Hampshire Facility:
FUJIFILM Dimatix, Inc.
109 Etna Road
Lebanon, NH 03766
USA
Tel: 1 (603) 443-5300
info@dimatix.com

Inkjet Business Division:
FUJIFILM Corporation
7-3, Akasaka 9-chome
Minato-ku, Tokyo 107-0052
Japan
Tel: +81 3 6271 3971
dgi-ff-ijhead@fujifilm.com

China Office:
FUJIFILM Dimatix China
Service Center Building 30,
1000 Jinhai Road
Pudong New Area, Shanghai
China 201206
china@dimatix.com

Europe Office:
euro@dimatix.com
Korea Office:
mdkorea@dimatix.com
Singapore Office:
mdsingapore@dimatix.com
Taiwan Office:
mdtaiwan@dimatix.com

www.fujifilm.com/us/en/business/inkjet-solutions

PDS00160 Rev .02, May 2024

FUJIFILM and the FUJIFILM logo, DIMATIX, STARFIRE and the STARFIRE logo, REDUJET and the REDUJET logo are trademarks of the FUJIFILM Corporation and its affiliates.
© 2024 FUJIFILM Dimatix, Inc. All rights reserved.