

The Step-by-Step Guide to Ceramic Printing

STEP 01 : Cleaning & Ink Prep

Clean the glass surface thoroughly to remove dust, oil, fingerprints, and other contaminants.

STEP 02 : Printing with Specialized Ceramic UV ink

Print the ink onto the glass using a digital inkjet printer.

- Instant UV Curing
- High resolution with no ink spreading
- Space-saving

STEP 03 : Firing & Tempering (650° C–700° C)

The printed glass enters a high-temperature kiln where the ink fuses with the glass substrate, creating an unbreakable, everlasting bond.

STEP 04 : Cooling & Perfection

The fused ink becomes part of the glass, delivering ultimate resistance to scratches, chemicals, and weathering.

“Infinite Expression on Ceramic, Absolute Precision by Digital” Ceramatrix



✓ No More Screen Plates

Forget the hassle of physical screen preparation-Just click and print

✓ Any Design, Any Color, Right onto the Glass

Flawlessly print high-resolution photos, complex patterns, and beautiful gradients

✓ Turn 1-Piece Orders into High Profit

Even a single glass sample can now be profitable

✓ No Clogging, Non-stop Printing (Continuous Ink Circulation)

Heavy ceramic ink? Our smart system ensures zero clogging

RED GANT

Production capacity & ink consumption

Image Size	Printing condition	Output Area(per Hour)	Daily Output (8h Shift)
1m * 1m	8pass / Bi-directional / Strong	3.56m ² /h	28.48m ² /8h
1.8m*1.8m	8pass / Bi-directional / Strong	4.67m ² /h	37.36m ² /8h
1.8m*1.8m	6pass / Bi-directional / Strong	5.53m ² /h	44.24m ² /8h
1.8m*1.8m	6pass / Bi-directional / Medium	8.19m ² /h	65.52m ² /8h

Ink consumption guide (based on 1m*1m image size)

Category	Full Coverage	Standard Image Output
Consumption	20g	10g
Estimated Cost	\$3.9	\$2.0

Note : cost calculated based on ink price of \$200 per kg

Component	Detailed specification
Print head	6 Epson i3200 U1 Print head
Curing system	Dual water cooling LED UV
Colors	C M YK, White, Green, Pink
Ink supply system	1.5Liter bulk ink
Printing width	Max 1850mm
Media thickness	Up to 40mm
Working environment	23° C~29° C, Humidity : 50%~80%
Software	FlexiPRINT / ONYX(optional)
Power	Single phase, 50Hz/AC,220V,12A(printer)+8A(UV controller)
Packed/Installed size	L*W*H(mm) 3900*1150*1830 / 3740*1407*1581