

SIGNRACER

PRECISION MEETS PERFORMANCE

UV-CURED INDUSTRIAL INKJET

SIGNRACER 2512 V

One-pass white, color, and
varnish with Delayed curing
for premium tactile finishes without separate
varnish production steps



🕒 [Delayed curing] for premium
tactile effects in one pass

⚡ [CMYK] for controlled color
matching to proof standards

📏 [2500 × 1250 mm] for large panels
and production-ready layouts

2512 V FOR PREMIUM TACTILE OUTPUT

SIGNRACER 2512 V targets packaging, display, tactile, and decorative jobs that use configured White, Colour, and Varnish layer sequences. The 2500 × 1250 mm flatbed supports the listed media after substrate, layer-stack, cure, adhesion, registration, and finish validation.

8-head Ricoh Gen. 5 or Gen. 6 configurations support CMYK + White + Varnish workflows. LED UV curing with simultaneous triple row Delayed Varnish Cure separates varnish timing to support tactile effects in one pass, while the Honeycomb 4-zone vacuum table stabilizes media for repeatability.



INDUSTRIAL FIT SNAPSHOT

 **635 × 900 dpi**

Print resolution for fine text, micrographics, and smooth tonal transitions in packaging, labels, and decorative panels.

 **1.2 m/s**

Carriage speed target for higher throughput during production and batch runs across typical flatbed formats.

 **2500 × 1250 mm**

Flatbed size for large-format layout efficiency and fewer panel splits for luxury packaging and POS graphics.

FINISH, CURE, AND SCALE



Simultaneous Triple Row Delayed Curing System

Delayed Varnish Cure timing supports tactile premium finishes in one pass, combining white, color, and varnish workflows without separate varnish steps.



Archived GREENGUARD Gold Records

Archived certificate records cover periods ending 25 January 2025. Confirm current certification, the exact ink family, intended application, and required project documentation before specification.



Scalable Printhead Configuration

8-head Ricoh Gen. 5 or Gen. 6 configurations support CMYK + White + Varnish ink setups for different coverage needs and job mix planning.

PRODUCTION CONSTRAINTS ADDRESSED

Media switching for mixed runs

Flatbed handling supports PVC, Aludibond, PS, PP, Acrylic, PET-G, and Glass for faster job changeovers across packaging and display SKUs.

Encoder control for registration

Linear Motor carriage with encoder control improves registration repeatability for fine text, brand elements, and multi-layer white + varnish layouts.

Speed modes for batch volume

Carriage speed up to 1.2 m/s supports draft and production mixes for higher m²/h output on panel and label-size workflows.

HOW THE 2512 V WORKFLOW WORKS



Delayed Varnish Curing

Simultaneous triple row with Delayed Varnish Cure manages varnish timing under LED UV to support tactile premium finishes in one pass with controlled curing power.



Ricoh Print Engine

8-head Ricoh Gen. 5 or Gen. 6 configurations support 635 × 900 dpi detail for packaging graphics, microtext, and smooth gradients.



Linear Motor Carriage

Linear Motor drive with encoder control enables stable carriage motion up to 1.2 m/s for consistent dot placement at production speeds.



SR-100 HD

Use SR-100 HD for white + color coverage planning where consistent opacity supports premium label and packaging surfaces.



SR-200+

SR-200+ supports CMYK color workflows with varnish for brand elements and decorative graphics that need stable tone mapping.



PREMIUMFLEX+

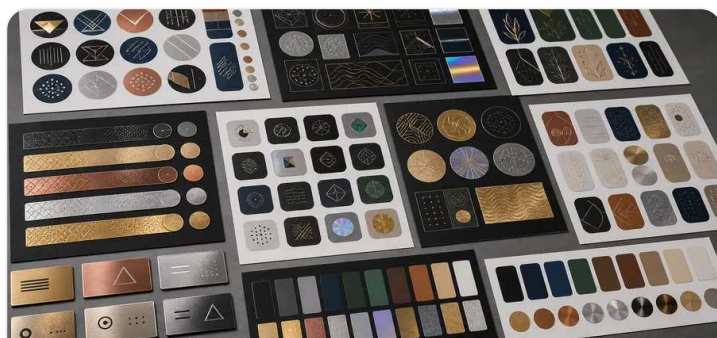
PREMIUMFLEX+ supports tactile-oriented varnish output in Delayed Varnish Cure workflows for Braille Dot-adjacent and tactile finishes.

WHERE IT FITS PRODUCTION



Luxury Packaging with Spot Varnish

Spot varnish on coated packaging board, folding-carton samples, and rigid display stock with one-pass white + color + varnish for premium tactile effects without separate varnish steps.



Premium Labels and Brand Elements

CMYK + White + Varnish on PVC or PS using Delayed Varnish Cure for crisp logos, microtext, and controlled finish.



Point-of-Sale Displays

High-coverage graphics on PET-G or Acrylic with stable registration on the Honeycomb 4-zone vacuum table for retail-ready sets.



Tactile Signage Process Samples

Evaluate raised Varnish layouts on qualified Acrylic or PET-G.



Art Reproduction and Fine Print

Evaluate fine-detail reproduction on qualified Glass or Acrylic using the specified 635 x 900 dpi engine and CMYK + White + Varnish configurations.



Decorative Interior Panels

Decorative finishes on PVC or Aludibond with extended color gamut workflows and varnish timing for premium tactile panels.

SIGNRACER 2512 V

 Print Engine

PRINT TECHNOLOGY
UV-Cured Industrial Inkjet

PRINTHEADS / COUNT
8 Ricoh Gen. 5 or Gen. 6 heads

NOZZLES / DROP SIZE
40 kHz: 1280 nozzles | 5–15 pl grayscale

PRINT RESOLUTION
635 × 900 dpi

CARRIAGE DRIVE / SPEED
Linear Motor / Up to 1.2 m/s

 Media & Bed System

PRINT AREA
2500 × 1250 mm

FLATBED TYPE
Honeycomb 4-zone vacuum with registration pins

MAX MEDIA WIDTH / PRINT WIDTH
2540 mm / 2500 mm

MAX MEDIA THICKNESS
Maximum 100 mm

SUPPORTED MEDIA
PVC, aluminium composite, PS, PP, acrylic, PET-G, glass; validate production media before approval

 UV Curing System

CURING TECHNOLOGY
LED UV with variable power levels

CURING CONFIGURATION
Simultaneous triple row with Delayed Varnish Cure

CURING WIDTH / POWER
120 mm (Color) + 30 mm (Low-Intensity Varnish)

 Ink Solution

INK CONFIGURATION 1
CMYK + LC + LM + White + Varnish

INK CONFIGURATION 2
CMYK + White (x4) + Varnish (x6)

INK CONFIGURATION 3
CMYK + White (x4) + Varnish (x2)

INK CONSUMPTION
8 ml/m²

 Electrical & Physical

POWER CONSUMPTION
6 kW

DIMENSIONS (L X W X H)
4670 × 1960 × 1320 mm

WEIGHT
1380 kg

SHIPPING CRATE (L × W × H)
5000 × 2150 × 1800 mm

SHIPPING WEIGHT
1710 kg (gross) / 330 kg (crate)

 Software & Documentation

RIP SOFTWARE
Caldera, Ergosoft

CONFORMITY MARKING
CE marking

CONSUMABLES (NOT COVERED)
Printheads, inks, filters and other wear parts

PRINT SPEED BY PRINTHEAD

CONFIGURATION	4-PASS	6-PASS	9-PASS
RICOH GEN. 5 - SIMULTANEOUS TRIPLE ROW	22	17	13
RICOH GEN. 6 - SIMULTANEOUS TRIPLE ROW	27	22	15

Send your real media for validation

Send your real media, real artwork, real quality target. Get a sample print, fit check, consultation, and a live demo for SIGNRACER 2512 V workflow fit.



Scan to request validation

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