

SIGNRACER

PRECISION MEETS PERFORMANCE

INDUSTRIAL FLATBED UV LED PRINTER

SIGNRACER 2512

High-volume industrial UV flatbed
for large-format capacity, scalable
throughput, and precision.



🕒 Linear encoder with 1-micron measurement resolution for carriage-position feedback.

⚡ Up to 63 m²/h draft throughput in triple-row configuration.

📏 2500 x 1250 mm flatbed with 4-zone vacuum and registration pins.

SCALE PRODUCTION WITH SIGNRACER 2512

The SIGNRACER 2512 is an industrial UV flatbed printer with a 2500 x 1250 mm print area and 4-zone vacuum table. It is intended for qualified rigid and flexible-media work across production, display, and industrial-decoration applications.

The platform supports 2 to 8 Ricoh Gen. 6 printheads with 5-15 pl grayscale drops and linear-motor carriage speed up to 1.2 m/s. Approve detail, gradients, registration, colour, and usable speed in the selected production mode.



INDUSTRIAL FIT SNAPSHOT

1 µm Positioning

Encoder feedback with 1-micron measurement resolution supports carriage positioning across the full 2500 x 1250 mm print area.

Up to 63 m²/h Draft Speed

Triple-row draft mode provides the stated maximum throughput; approve quality and usable speed in the selected production mode.

100 mm Media Height

Print on qualified rigid parts and components up to 100 mm high; approve the actual part, fixture, clearance, and registration setup.

BUILT FOR HIGH-VOLUME INDUSTRIAL PRODUCTION



Large-Format Steel Chassis

Rigid steel frame with a 4-zone honeycomb vacuum table and registration pins to support media setup across the 2500 x 1250 mm bed.



Archived GREENGUARD Gold Records

Archived certificate records for SR-200+ and SR-100 HD cover periods ending 25 January 2025. Confirm current certification, the exact ink family, and project scope before specification.



Scalable Printhead Configuration

The triple-row Ricoh Gen. 6 configuration reaches up to 63 m²/h in draft mode.

KEY CAPABILITIES

4-Zone Vacuum Table

Independent vacuum zones with registration pins hold substrates flat and aligned across the full 2500 x 1250 mm bed.

Up to 63 m²/h Draft Throughput

The triple-row configuration reaches up to 63 m²/h in draft mode. Approve quality and usable speed on the intended substrate.

2 to 8 Head Scalability

Start with a 2-head configuration and scale to 8 Ricoh Gen. 6 heads as production volume grows.

CORE TECHNOLOGY BEHIND 2512 PERFORMANCE



Linear Motor + 1-Micron Encoder

Direct electromagnetic carriage motion at 1.2 m/s replaces belt dependency for demanding large-format detail work.



Ricoh Gen. 6 Print Engine

Industrial-grade heads with 5-15 pl grayscale, scalable from 2 to 8 heads for throughput and quality flexibility.



Triple-Row UV LED Curing

IST INTECH system with single, double, or triple row options up to 16 W/cm² for cure tuning across substrates.



SR-100 HD for Multi-Purpose Production

Published SR-100 HD data reports solvent and scratch resistance for mixed rigid and roll-media work.



SR-200+ for High-Adhesion Industrial Parts

Published SR-200+ data positions the ink for adhesion-focused industrial work with Orange and Violet gamut options.



PREMIUMFLEX+ for Flexible Materials

Published PREMIUMFLEX+ data reports flexibility for leather-like and soft substrates, including Bally Test durability above 50,000 cycles.

HIGH-FIT APPLICATIONS FOR SIGNRACER 2512



Signage and Display

Use the 2500 x 1250 mm bed and 4-zone vacuum table for PVC, Aludibond, acrylic, and other qualified rigid panels.



Braille and Tactile Signage

Lay out multiple tactile sign panels on the flatbed after project-specific validation.



Digital Masking and Surface Processing

UV-curable digital masking printed directly on metal for brushing and sandblasting.



Packaging Prototypes

Produce short-run packaging proofs on qualified corrugated, folding-carton, and rigid display stock.



Acrylic Point-of-Sale Displays

High-resolution printing on acrylic sheets, retail display panels, and presentation parts.



Industrial Product Decoration

Print branding, serial numbers, and graphics directly on qualified flat parts, housings, and panels.

SIGNRACER 2512

Print Engine

PRINT TECHNOLOGY
UV-Cured Industrial Inkjet

PRINTHEADS / COUNT
Ricoh Gen. 6, 2 to 8

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

PRINT RESOLUTION
635 x 900 dpi

CARRIAGE DRIVE / SPEED
Linear Motor, up to 1.2 m/s

Media & Bed System

PRINT AREA
2500 x 1250 mm

FLATBED TYPE
Honeycomb 4 zones vacuum table with registration pins

MAX MEDIA WIDTH / PRINT WIDTH
2540 mm / 2500 mm

MAX MEDIA THICKNESS
Maximum 100 mm

SUPPORTED MEDIA
PVC, aluminium composite, acrylic, wood, MDF, glass, PET-G, composite panels, leather, corrugated board, mesh, vinyl, foam board; validate production media before approval

UV Curing System

CURING TECHNOLOGY
LED UV curing with variable power levels

CURING WIDTH / POWER
Single: 90 mm / 14 W/cm²
Double: 180 mm / 14 W/cm²
Triple: 210 mm / 16 W/cm²

Ink Solution

INK CONFIGURATION 1
CMYK + White

INK CONFIGURATION 2
CMYK + LC + LM + LK + White

INK CONFIGURATION 3
CMYK + Orange + Violet + White + Varnish

INK CONSUMPTION
8 ml/m²

Electrical & Physical

POWER CONSUMPTION
6 kW

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

WEIGHT
1380 kg

SHIPPING CRATE (L x W x H)
5000 x 2150 x 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 CONFIGURATION

CONFIGURATION	4-PASS	6-PASS	9-PASS
SINGLE ROW	27	22	15
DOUBLE ROW	47	39	28
TRIPLE ROW	63	53	38

Validate the 2512 on Your Real Parts

Share your materials, artwork, and quality targets for a focused test-print and rollout recommendation from SIGNRACER.



Scan for the live product page

SIGNRACER GmbH
info@signracer.ch
+41 41 792 01 57
www.signracer.ch