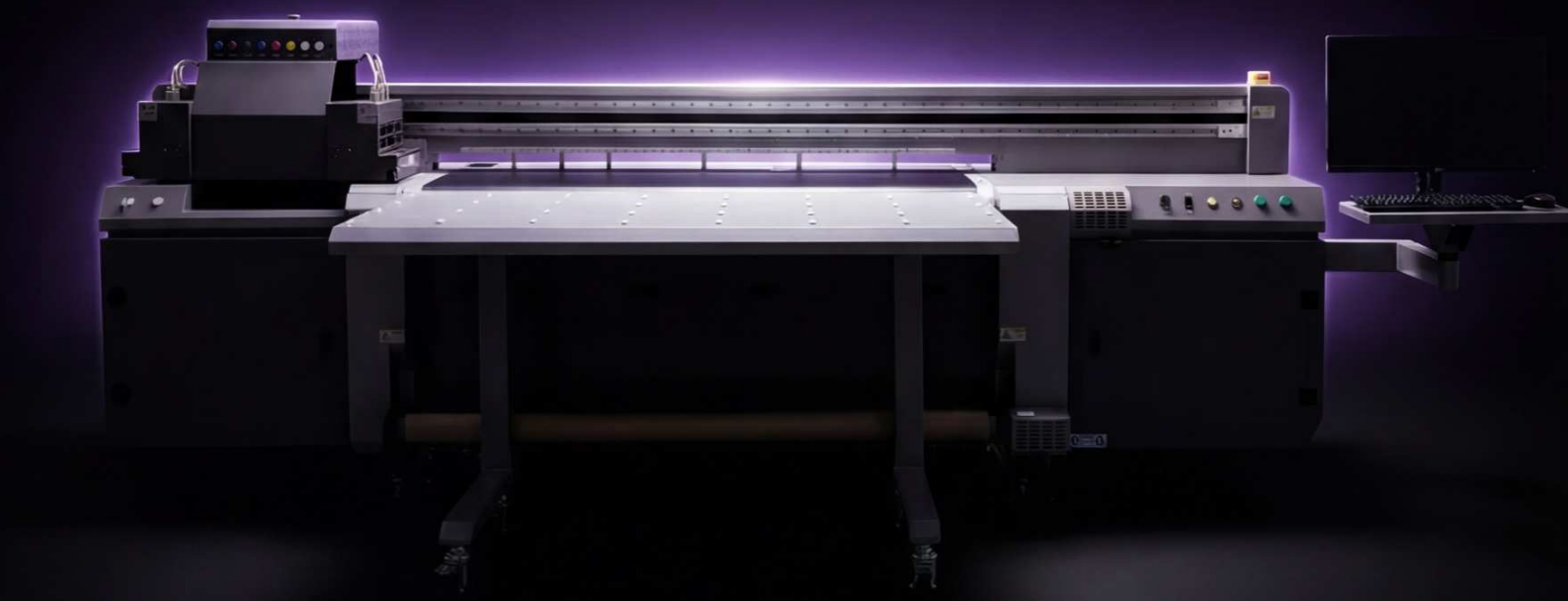
SIGNRACER

PRECISION MEETS PERFORMANCE

COMPACT HYBRID UV LED PRINTER

SIGNRACER 1600

Versatile compact hybrid UV printer for rigid and roll media in a minimal footprint.



- Hybrid system for rigid sheets and roll media.
- Up to 38 m²/h draft throughput in double-row configuration.
- 1600 mm print width with 3-zone vacuum belt.

RIGID AND ROLL IN ONE COMPACT SYSTEM

The SIGNRACER 1600 is a compact hybrid UV printer for qualified rigid-sheet and roll-media workflows. Its 1600 mm platform is intended for production teams that need both media formats in a limited floor area.

Ricoh Gen. 6 printheads provide 5-15 pl grayscale drops. The hybrid conveyor uses a 3-zone vacuum belt for media control across compatible rolls and rigid boards up to 50 mm thick.



INDUSTRIAL FIT SNAPSHOT

1 µm Positioning

Encoder feedback with 1-micron measurement resolution supports carriage positioning across the full 1600 mm print width.

Up to 38 m²/h Draft Speed

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

1600 mm Width, 50 mm Thickness

Print on rigid media up to 50 mm thick across the full 1600 mm width, or switch to roll media with the hybrid conveyor system.

BUILT FOR VERSATILE HYBRID PRODUCTION



SIGNRACER 1600 Platform

Versatile compact hybrid UV printer for rigid and roll media in a minimal footprint.



GREENGUARD Gold-Certified Inks

SR-200+, SR-100 HD and PremiumFlex+ hold GREENGUARD Gold certification for low chemical emissions into indoor air; see each ink's certificate for scope and conditions.



Scalable Printhead Configuration

The double-row Ricoh Gen. 6 configuration reaches up to 38 m²/h in draft mode.

KEY CAPABILITIES

Hybrid Media Handling

Automatic sheet-and-roll switching supports changeover between qualified rigid sheets and compatible roll media. Confirm setup and handling requirements for each production media family.

1 µm Encoder Resolution

Linear encoder feedback provides 1-micron measurement resolution to support carriage positioning across the 1600 mm print width.

Up to 38 m²/h Draft Throughput

The double-row configuration reaches up to 38 m²/h in draft mode. Approve quality and usable speed in the selected production mode.

CORE TECHNOLOGY BEHIND 1600 PERFORMANCE



Belt-Driven Carriage

Belt-driven carriage motion at up to 1.2 m/s supports production throughput while the vacuum conveyor belt keeps media transport stable.



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.

INK WORKFLOWS BY SUBSTRATE AND DURABILITY TARGET



SR-100 HD for Multi-Purpose Production

General-purpose SR-100 HD combines scratch and solvent resistance with GREENGUARD Gold certification for low chemical emissions; its certificate is restricted to decorative wall applications.



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 1600



Rigid Signage and Display Panels

Print directly on PVC, Aludibond, and acrylic sheets for signage and display work.



PVC Banners and Flexible Media

Switch to roll mode for qualified PVC banners, backlit film, and flexible substrates on the vacuum conveyor belt.



Acrylic Point-of-Sale Displays

High-resolution printing on transparent and colored acrylic for retail displays and product presentations.



Leather and Flexible Product Decoration

Use the conveyor workflow with a compatible flexible ink for leather rolls and flexible materials.



Packaging Prototypes

Rapid prototyping on corrugated board, folding carton, and rigid packaging materials for design validation.



Wayfinding and Directional Signage

Printed directional signs, room identification panels, and architectural wayfinding on rigid substrates.

SIGNRACER 1600

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
Belt-driven carriage, up to 1.2 m/s

Media & Bed System

PRINT WIDTH
1600 mm

PRINTBED TYPE
Vacuum conveyor belt with retractable alignment bar

MAX MEDIA WIDTH / PRINT WIDTH
1600 mm / 1600 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)
3660 × 870 × 1350 mm

WEIGHT
900 kg

SHIPPING CRATE (L × W × H)
3930 × 1100 × 1600 mm

SHIPPING WEIGHT
1230 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	22	18	14
DOUBLE ROW	38	31	23

Validate the 1600 on Your Media

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

Scan for the live product page

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