

Acuity LED 1600R:

High-impact printing with LED UV technology

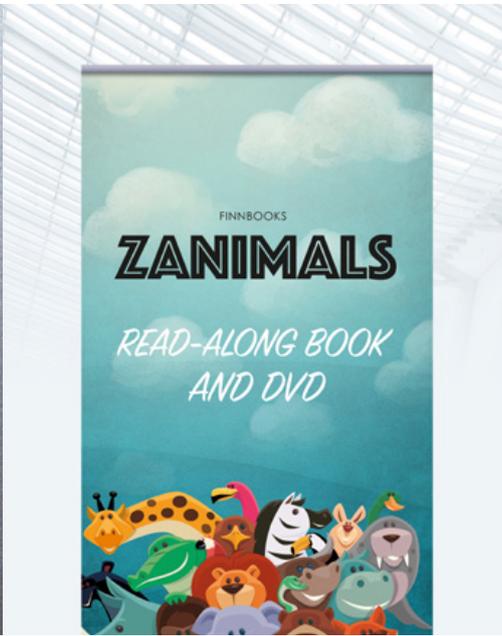
Powered by Fujifilm's leading printhead and ink technologies, including low-energy LED UV curing technology, Acuity LED 1600R is a reliable roll-fed production machine built to deliver exceptional results with economical cost-in-use. It's an ideal entry into productive LED UV printing, with an easy upgrade path.

Key features

- ▶ Fujifilm Dimatix Q-class industrial printheads
- ▶ Low energy consumption, long-life LED lamps (up to 10,000 hours)
- ▶ Fujifilm Uvijet RL ink set with GREENGUARD certification
- ▶ Upgrade path with various color configurations
- ▶ Excellent productivity up to 355 ft² per hour
- ▶ Media weight up to 88 lbs/roll
- ▶ Excellent ink coverage and adhesion to a wide range of substrates
- ▶ Strong, vibrant colors
- ▶ No VOCs
- ▶ Solvent-free

AcuityLED1600R





Offer your customers exceptional, vibrant prints and keep costs low

Cost-effective LED UV technology

Acuity LED 1600R is built to produce exceptional print results in the most environmentally friendly way, with low-energy LED UV curing technology. LED lamps consume far less energy than conventional UV and last up to ten times longer, having a positive impact on the total cost of ownership. And with no drying time required, prints come off the printer ready to be finished and shipped.

Robust build, reliable production

Acuity LED printers are built for continuous printing. Some owners even run them 24/7. Fujifilm Dimatix printheads are precise, fast, and have a track record of long service life. Acuity LED 1600R offers an impressive speed-to-quality ratio.

High-impact, vibrant images

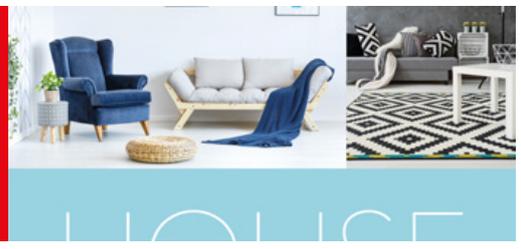
Acuity LED 1600R delivers outstanding quality prints. Images are vibrant and high impact with strong ink density for backlit applications, while low ink consumption means low cost-in-use. Achieve sellable quality at 215 ft²/hr for closer viewing distance, or 355 ft²/hr for more than 5 meter viewing distance.

Wide application range

Produce a wide variety of applications on a broad range of roll-to-roll material – including uncoated media – such as display graphics, signage, decals, environmental graphics and interior decoration. LEDs produce very little heat, which means they can work with heat-sensitive media without deformation or shrinkage.

Easy upgrade path

Start off with a basic CMYK color configuration. Upgrade to light inks to achieve smoother tonal images and add a white ink channel for printing on clear and colored materials. This flexibility means the Acuity LED 1600R can grow with your business and makes it a perfect entry-level machine.



Versatile, efficient, high-quality production

Fujifilm print system technology

The inks, printheads and LED curing system are Fujifilm technologies. They are accurately tuned to deliver brilliant images at speed.

Fujifilm Dimatix printheads

These high-performance printheads are precise, fast, and have a track record of long service life.

LED UV technology

LED UV lamps use a fraction of the energy of conventional curing systems, produce no wasted heat and are safe to work with. LEDs produce very little heat, which means they can work with heat-sensitive media such as thin films.

Prints are immediately dry

LED UV cures the ink instantly so there is no need to wait for the print to dry before finishing or shipping.

High-impact Uvjet inks

Fujifilm's Micro-V ultrafine dispersion production technology produces inks with high pigmentation for strong, vibrant images and a wide color gamut.

Print on a wide range of flexible media

Fujifilm Uvjet inks offer excellent adhesion to a wide range of standard roll media.

Near photographic quality images

Achieve smooth tones and outstanding close-up clarity thanks to optional light inks, variable drop printheads and dot gain control.

White ink channel upgrade

Expand into creative applications. High density white ink can be used to produce creative effects on clear and colored media. Colors and white can be printed simultaneously.

Light ink channel upgrade

Light inks enhance color reproduction, producing smooth tonal images like skin tones, vignettes and lighter solid colors.

Print mode options

A range of print modes are available to provide different levels of quality and speed, depending on the specific job requirements. The fastest print mode offers up to 355 ft²/hr.

Easy installation

As there is no wasted heat, VOCs or ozone, the printer can be installed in any production environment without dedicated extraction.

Low maintenance

LED UV inkjet requires minimal daily maintenance.

Fast startup

LED UV requires no lamp warm-up time, so printing can start immediately.

Reusable cartridge system

The disposable foil ink pouch is contained by a reusable plastic ink cartridge holder, reducing waste.

Environmental certification

Uvjet RL inks meet the exacting demands of GREENGUARD Gold certification.



Technical specifications

Acuity LED 1600R		
Printing technology	LED UV inkjet	
Media	Width	8.2 - 63.7 inches, maximum print width: 63.3 inches
	Thickness	0.04 inches (1mm)
	Roll weight	Up to 88 lbs (40kg)
	Roll diameter	8.2 inches or less
Ink	Fujifilm Uvijet RL LED UV curable ink (600 ml pouch). GREENGUARD Gold certified.	
Color channels	Standard: CMYK, Upgrade: CMYKLCm, CMYKW, CMYKLCmW	
Printheads	Fujifilm Dimatix Q-class	
Interface	USB	
RIP	AL RIP / Caldera / ColorGATE Production Suite	
Operating environment	68-86°F (20-30 °C), 3-65% RH non-condensing	
Power requirements	Single phase AC 200 - 240 ±10%, 50/60 Hz ±1 Hz, 18 A or less	
Power consumption	1kW	
Dimensions (l) x (d) x (h)	126 x 32.6 x 57 inches	
Weight	661 lbs (300 kg)	

Print modes and speeds

Mode	Passes	Resolution (dpi)	Max speed (ft ² /hr)
Express	6 pass bi-di	300 x 600	355
Production	10 pass bi-di	600 x 500	215
Standard	16 pass bi-di	900 x 800	140
Quality	24 pass bi-di	1200 x 1200	86
High Quality	48 pass bi-di	1200 x 1200	45

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