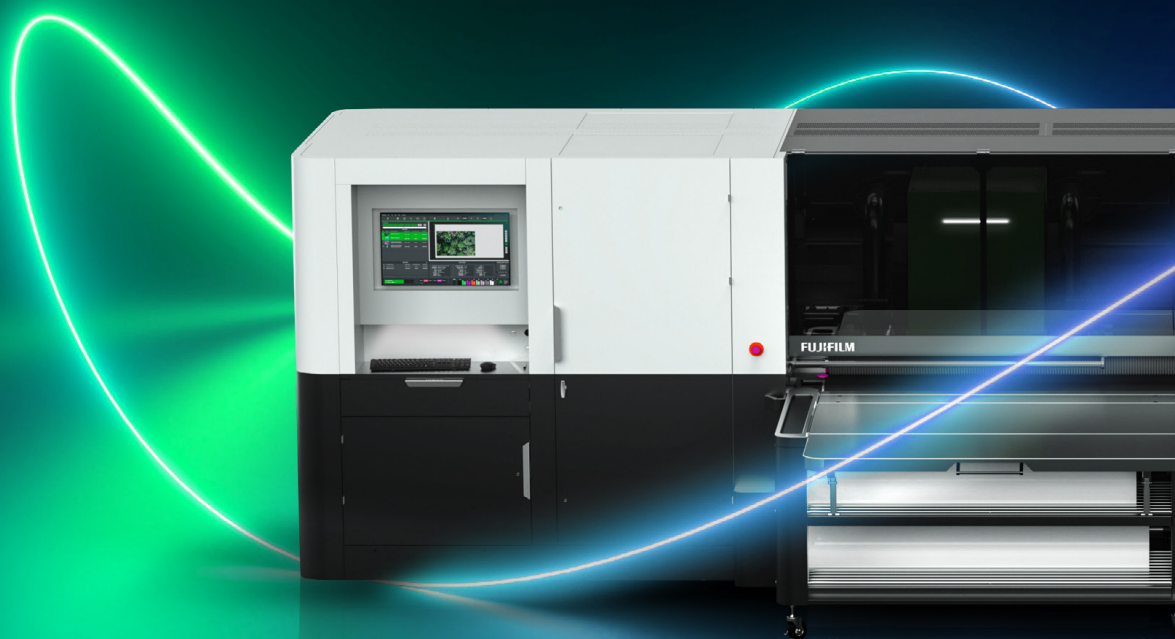


Acuity Ultra Hybrid LED

**One platform
unlimited results**



Acuity *Ultra Hybrid LED*

The Acuity Ultra Hybrid LED is a high-end printer designed for rigid and flexible media, offering superb, high quality printing in a 3.3m platform.



Engineered with the operator in mind

The Acuity Ultra Hybrid LED is designed with specialist inks to support near photographic quality printing on a huge range of applications.

It is also a highly modular six-colour system with a scalable architecture that can grow and change as business demands evolve. This means you can start with a CMYK device, and add light colours and white inks at a later date, making it one of the most versatile and flexible platforms on the market, able to produce the widest variety of products in the smallest machine footprint.

Versatility

The combination of intelligent design features and Fujifilm's new Uvijet UH high performance ink, ensures that the Acuity Ultra Hybrid LED is one of the most versatile platforms on the market, able to produce an unrivalled range of applications at both high quality and high speed.

Media load and unload tables

Fujifilm's patented media table design features a dimpled table surface which supports all media types while allowing easy media positioning, providing performance superior to most other systems on the market. In addition, an innovative catch mechanism improves media feed accuracy, and provides protection from accidental damage throughout a print run. Finally, the change over from roll to rigid or rigid to roll is ultra-quick, maximising overall productivity.

Intelligent vacuum control system

The Acuity Ultra Hybrid LED features an intelligent vacuum control system that has been designed from the ground up using sophisticated airflow CAD modelling software to generate excellent media hold down.

The system automatically turns on the vacuum zones needed for any print job based upon the media width, and automatically adjusts the vacuum control power to maintain a constant force under the belt regardless of media type and size. This ensures excellent media hold down, whilst maintaining consistent media transport, to ensure high print quality.

In addition, the belt is a single piece constructed of a semi-rigid polyurethane material, so it resists both ink damage and distortion over time, ensuring years of continual use. The belt drive rollers are also substantial 32cm diameter steel rollers that resist deflection when the belt is tensioned.

Key features

- Versatile, ultra-high quality printer
- Native 3.5 picolitre, 3 level greyscale printheads
- Linear-driven printhead carriage
- Dimpled media tables support all media types
- 3.3 m width
- LED UV curing for lower power consumption
- Uvijet UH high performance inks
- 6 channel with white option
- Up to 218 m²/hr roll-to-roll
- Dual roll printing
- Prints on heat-sensitive materials
- Intuitive GUI

The Acuity Ultra Hybrid LED delivers
an unrivalled range of applications at
both high quality and high speed.

Acuity Ultra Hybrid LED

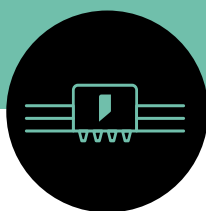
Ultra-high quality

The Acuity Ultra Hybrid LED uses the same head carriage as the Acuity Ultra R2, capable of ejecting greyscale drops down to 3.5pL in size to deliver superb print quality. Combined with an industrial build quality, a linear motor head carriage drive and Fujifilm's high performance Uvijet UH inks, the very best print quality is guaranteed.



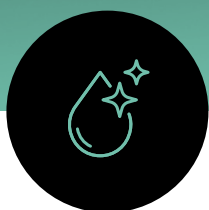
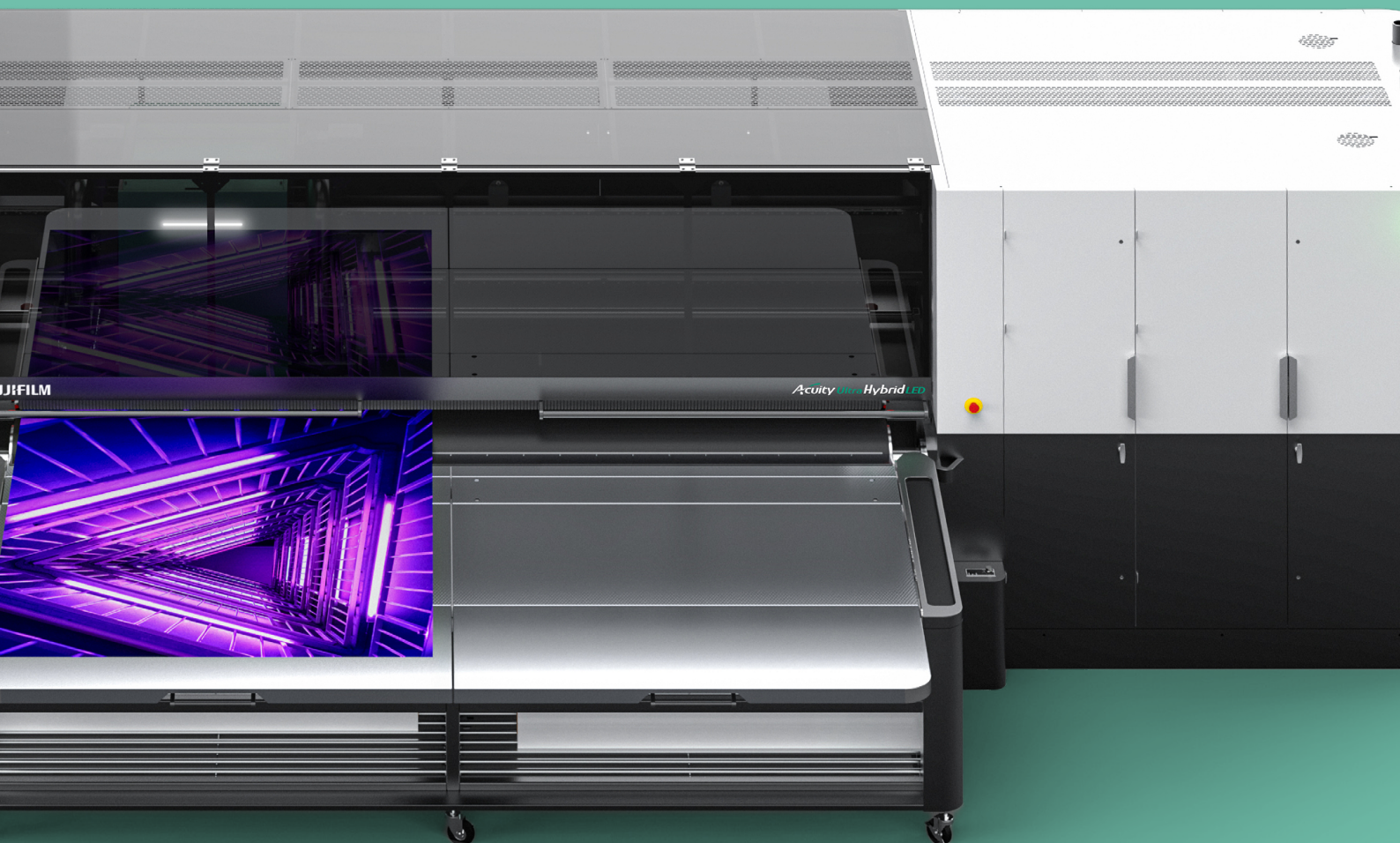
Heavy duty chassis

Like the Acuity Ultra R2, the Acuity Ultra Hybrid LED is built on a substantial welded steel construction, together with solid steel bars, which contribute to the machines 8.3T weight. This design not only delivers a robust construction, it also ensures that the printer displays very little vibration during operation, further enhancing print quality.



Linear motor head carriage drive

Many hybrid printers use a belt drive to move the print carriage, often resulting in a reduced life span as well as impacting print quality. The Acuity Ultra Hybrid LED uses a linear motor drive for the head carriage delivering travel speeds of 1900mm per second when using the fast carriage travel speed. The carriage movement is quiet and free from vibration, travelling along dual rails with the carriage supported by 6 large race bearings.



Uvijet UH ink

Fujifilm has developed a new high performance LED curing ink for use in the Acuity Ultra Hybrid LED, specifically designed to give the adhesion performance needed in a hybrid solution. However, the ink still delivers the same high coverage and print quality as Fujifilm's other Uvijet AU and GS inks, with customers also able to benefit from the same low ink usage.

The Uvijet UH ink set consists of six standard colours (CMYKLcLm) and an optional white ink.

The printer can be configured with two white ink channels to maximise throughput speeds and print density.

The Acuity Ultra LED Hybrid with white ink allows flood white under-printing for non-white media, over-printing white for backlit applications on transparent media and/or printing white as a spot colour. The new ink range has both Greenguard Gold and AgBB certification. The printer is capable of printing up to 5 layers, with the 1st and 5th layer being a different image.

Designed with the operator in mind

A range of advanced features have also been incorporated into the design of the Acuity Ultra Hybrid LED to improve operation and maximise uptime. These include:

- A second workspace with keyboard and monitor that mirror the functions of the PC that drives the machine, meaning a single user can operate the printer from either the input or the output sides of the machine
- Media tension buttons controlling the roll functions of the machine are located on both the input and output sides for ease of use
- The input media roller is adjustable, moving up and down, for improved tension, and to help keep the roll media flat and wrinkle free
- The durable aluminium media shafts cater for either single 3.3m rolls, or two rolls each up to 1.6m wide. The printer uses a special airshaft which allows two rolls of the same media having different diameters to be run at the same time

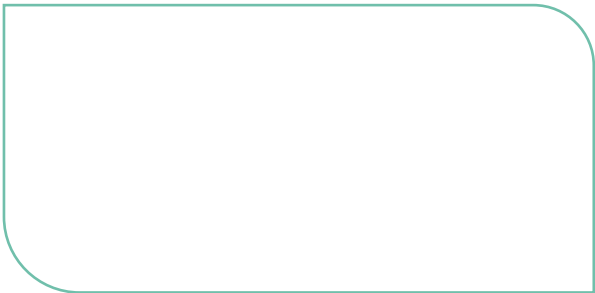




Technical specifications

Acuity Ultra Hybrid LED	
Media	Maximum width 3.3 metre
Print sizes	Maximum width 3.3 metre
Ink range	Uvijet UH std colours – CMYKLCm – Optional white
Ink reservoir	Top loading 7 ltr tanks , White 2 ltr
Print head	Up to 16 Kyocera KJ4A heads
Number of nozzles	5,312 nozzles per colour channel with white channel having 10,624
Print resolution	Print resolution up to 1200 x 1200 dpi
Productivity	Up to 218 m ² /hr for RTR, 100 m ² /hr High Quality, 69 m ² /hr Backlit Up to 54 beds an hour (1.22 x 2.44 m) – 3 pass
Curing system	LED Lamp – lamp life minimum 5000 hours
Power supply machine	380 v 3 phase 50/60 Hz 30 amp, 7 kw consumption. (Vacuum motor: 400 V 3-ph+N+PE/Gnd, 50/60 HZ, 80 A, 33.5 KW)
Connectivity	Connectivity Minimum 1000 base T
Services	Pressure (minimum): 8 kg/cm ² (7.85 bar / 114 psi)
Media Type – RTR	Up to 2 mm – PC, PET, UV textiles, Papers, SAV, Mesh, banner PVC
Media Type – rigid	Up to 5 cm – Foam PVC, Rigid PVC, Dibond, PE Flute, Acrylic, P&B
Media RTR – single roll	180 kg x 36 cm diameter x 3.2 m width
Media RTR – dual roll	Each – 90 kg x 36 cm diameter x 1.6 m width
Media RTR on table rollers	20 kg max weight
Media capabilities rigid	Max 15 kg/m ² – Max single sheet weight on table 80 kg
Sheet sizes	Minimum sheet size 50 x 70 cm. Max 3.2 m x 3 m (with table extensions)
Environment	18–28° C. 40–80% RH (noncondensing) (Altitude 0–2000 m)
Dimensions L x W x H	8.3 m x 2.1 m x 1.9 m (With tables width 5.5 m or 7.5 m with table extensions)
Working area recommended	10.3 m x 9.5 m
Weight	8.3 T (Uncrated)

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