Acuity Prime series: Overview

The benchmark platform for versatile print production

A true flatbed with a unique, exceptional design and high value, the Acuity Prime offers high quality printing on a range of rigid and flexible media, supported by its five dedicated vacuum zones and jettable primer. This range is available at a cost effective price point and offers an excellent return on investment.

Key features

- ▶ Dedicated flatbed design
- ▶ High resolution greyscale printheads
- ▶ Standard 49.2" x 98.4" (1.25 m x 2.5 m)
- ▶ Up to 1,615 ft²/hr (150 m²/hr) throughput
- ▶ Registration pins
- ▶ 5 dedicated vacuum zones to minimize masking
- ▶ Powerful instant curing LED UV system
- ▶ Fujifilm Uvijet LED UV curing inks
- ▶ Standard 4 color plus white with clear and optional jettable primer
- ▶ Automatic Printhead Maintenance System (APMS)

Acuity Prime

Produce a wide range of high value print

Lower cost of ownership and excellent ROI

With variable drop-size printheads and highly pigmented inks, Acuity Prime printers lay down a thin ink film, which minimize production costs, and in combination with a competitive system price, support an excellent ROI.

Produce a wide range of applications

With outstanding image quality and excellent adhesion to a broad range of rigid and flexible media, materials and objects, the Acuity Prime can produce an amazing variety of printed products for distance and close viewing. The vacuum table can handle almost any sheet material. It secures rigid and flexible media and holds it perfectly flat for high quality print across every sheet.

Expand your creative options

The option to print with white and clear inks, and to print directly to almost any material in perfect registration, enables the Acuity Prime to produce high value, creative work that could offer opportunities for new revenue. With the jettable primer option, the Acuity Prime can adhere to a wide variety of industrial media.

Designed with the operator in mind

At Fujifilm we understand the value of production time and usability, so we designed the Acuity Prime with the operator in mind. With a new and user-friendly GUI, easy clean printhead maintenance and visible status lights for the ink tanks, operators are able to spend less time maintaining the machine and more time printing.

The all-in-one flatbed printer

Dedicated flatbed design
The dedicated flatbed design with media registration pins ensures accurate registration for edge-to-edge printing and tiling of large layouts over multiple boards, even with multiple print passes.

High quality
Greyscale printheads in a staggered configuration deliver near-photographic image quality that is consistent over the whole bed.

Uvijet LED UV ink technology
Fujifilm's Uvijet ink delivers strong, vibrant, lightfast colors with superior color gamut.

Color channel options
The Acuity Prime can be configured with either 4,5,6 or 7 color channels. The channels are populated with ink sets that best suit your application needs, including CMYK, white, clear and a jettable primer for excellent adhesion to more industrial media types.

Print mode options
A range of print modes are available to provide different levels of quality and speed, depending on the specific job requirements.

Create it all with Acuity Prime and Uvijet HM inks

Versatile printing
▶ Produce point of sale graphics, indoor signage, industrial graphics and product decoration, printing direct to rigid or flexible sheets, objects or pre-cut media

▶ Print on PVC, polycarbonate, acrylic, paper, board, wood, aluminium composite and many other materials

▶ Produce borderless prints with little effort

▶ Create proofs for a customer that are identical to the production run

▶ Use clear ink to add impact using a spot or flood clear with uniform finish

▶ Use white ink to produce images on transparent or colored materials

▶ Print color-white-color layers in one pass for two-sided images on transparent materials

▶ Print stunning backlit images direct to transparent media

▶ Print with a double strike white for extra-high opacity

▶ Using the jettable primer option adhesion to industrial media such as glass, metal and wood is made possible.

Designed for your production environment

Compact footprint
Acuity Prime printers are built to fit into compact spaces and the accessible design gives you flexibility in the way you work around the machine.

Vacuum zones
Five dedicated vacuum zones tailored to common media sizes reduce the amount of bed masking required and enable quick media changeover. Adjustable vacuum strength provides optimum handling for different media.

Registration pins
Pneumatic registration pins enable quick, repeatable, easy loading of rigid media in perfect registration.
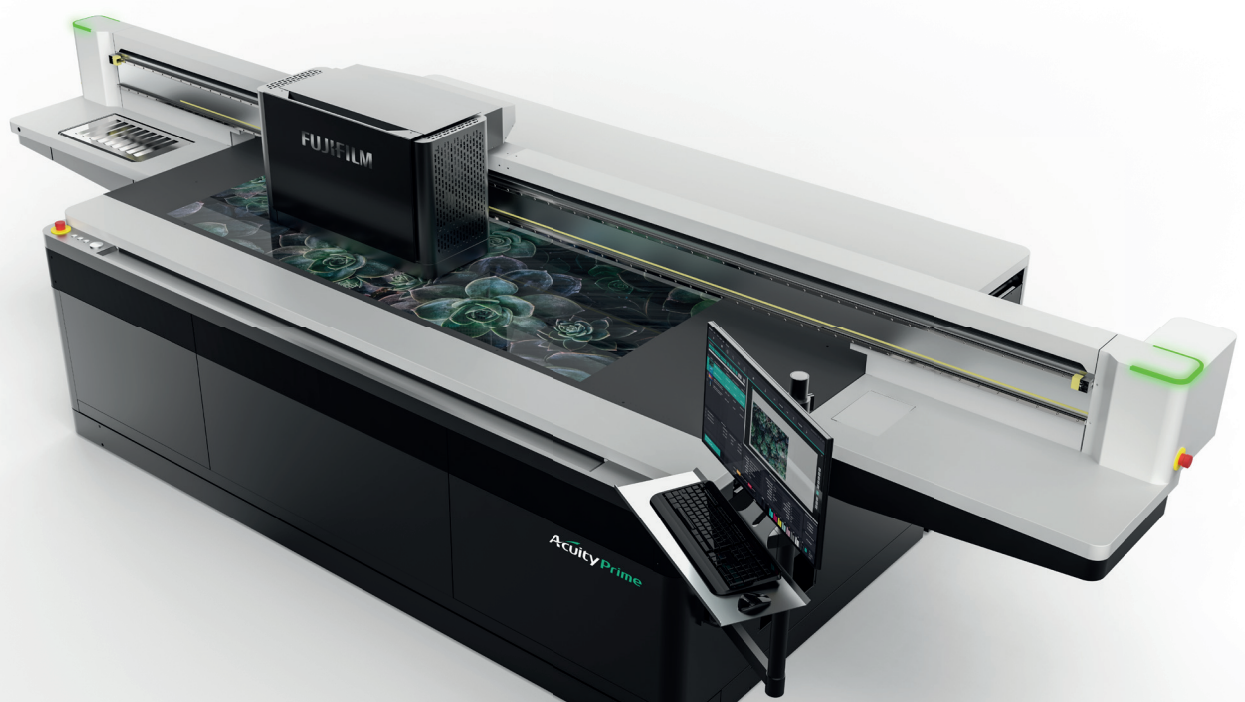
Static bars
The ionising bars reduce the effects of static on some synthetic materials.

Hands-free cleaning
The standard Automatic Printhead Maintenance System reduces the amount of manual cleaning required. The automatic process is clean and consistent.

Rigid or flexible media options
The ability to print on a variety of media, from flexible to rigid substrates up to 2" (51 mm) thick.

Technical specification

Acuity Prime		20	30
Rigid media	**Max size**	49.2" x 98.4" (1.25 m x 2.5 m)	49.2" x 98.4" (1.25 m x 2.5 m)
	Max thickness	2" (51 mm)	2" (51 mm)
	Max print area	49.2" x 98.4" (1.25 m x 2.5 m)	49.2" x 98.4" (1.25 m x 2.5 m)
	Max weight	9 lbs/ft² (45 kg/m²)	9 lbs/ft² (45 kg/m²)
Ink		Fujifilm Uvijet HM LED UV ink curable inks	Fujifilm Uvijet HM LED UV ink curable inks
Configuration		4 channel - CMYK, 5 channel - CMYK + P, CMYK + W, or CMYK + CL 6 channel - CMYK + P + W, CMYK + P + CL or CMYK + W+ CL	4 channel - CMYK, 5 channel - CMYK + P, CMYK + W or CMYK + CL 6 channel - CMYK + P + W, CMYK + P + CL CMYK + W + CL 7 channel - CMYK + P + W + CL
Curing system		Long lasting, low energy LED curing system	Long lasting, low energy LED curing system
Printheads		Ricoh Gen 5 greyscale, variable drop 7 - 21 pl	Ricoh Gen 5 greyscale, variable drop 7 - 21 pl
Printing resolution		Maximum 726 x 1,200 dpi (8 pass)	Maximum 726 x 1,200 dpi (8 pass)
RIP recommendation		ColorGATE or Caldera	ColorGATE or Caldera
Operating environment		61°F to 86°F (16°C to 30°C) 30-70% RH non-condensing	61°F to 86°F (16°C to 30°C) 30-70% RH non-condensing
Power requirements		220-240 VAC, single phase 50Hz/60Hz	220-240 VAC, single phase 50Hz/60Hz
Dimensions (W X L X H)	**Printer**	83" x 193" x 59" (2.1 m x 4.9 m x 1.5 m)	83" x 193" x 59" (2.1 m x 4.9 m x 1.5 m)
Weight	**Printer**	3,527 lbs (1,600 kg)	3,527 lbs (1,600 kg)

Print modes and speeds

Model	Acuity Prime 20						Acuity Prime 30					
Smoothing modes	33		66		100		33		66		100	
Speeds	m²/hr	ft²/hr	m²/hr	ft²/hr	m²/hr	ft²/hr	m²/hr	ft²/hr	m²/hr	ft²/hr	m²/hr	ft²/hr
Sketch	130	1399	93	1001	90	969	150	1615	n/a	n/a	126	1356
Draft	69	743	55	592	46	495	99	1066	81	872	65	700
Express	46	495	40	431	31	334	65	700	56	603	44	474
Production	35	377	31	334	23	248	47	506	43	463	33	355
Quality	23	248	21	226	15	161	33	355	30	323	22	237
Fine Art	17	183	16	172	11	118	25	269	23	248	16	172

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