



UV & Multipurpose



64" UV LED Roll-to-Roll Printer

The XpertJet 1682UR is a 64" (162 cm) high-performance UV LED printer, using MUTOH's environmentally-responsible and safe US61 CMYK, White and Varnish inks. It offers high productivity (up to 27.3 m²/h) with outstanding image quality up to 1440 x 1440 dpi.

Unleash your creativity with unique 5-layer printing for graphics that change front-to-back. Or 4 layer graphics for frontlit/backlit combi prints. Print on transparent and non-white materials, and add spot varnish for magical, eye-catching effects.

Enjoy the power of MUTOH's genuine Vertelith RIP as well as a range of automated calibrations and comfort features for flawless production and optimal use.

Product Highlights

- C, M, Y, K, Wh, Va UV LED printer
- Two 1440 nozzle heads and two 4" UV LED lamps
- Speeds up to 27.3 m²/h
- Single pass 5 layer printing without media pull back
- Frontlit/backlit combi & gloss embellishment graphics
- High level of user comfort – multiple automated calibrations
- Environmentally responsible and safe GREENGUARD Gold certified inks

Application Possibilities

The XPJ-1682UR is ideally suited for the production of a wide array of high quality graphics : in-store promotional prints, customized wall décor prints, exhibition graphics, POP & retail graphics, floor & window prints, fine art prints and more.



In store advertising



Frontlit/backlit graphics



Backlit signage



64" / 162 cm wide



Dual Head



CMYK, Clear & White



Certified inks



Environmentally responsible



UX Ranking



DropMaster 2



FeedMaster



Media Tracker



Nozzle Area Select

Environmentally responsible & safe inks

MUTOH US61 CMYK White & Varnish inks are SVHC and CMR free and GREENGUARD GOLD certified, ensuring safety for operators and print buyers.



Multi level pinch rollers

The 1682UR features newly designed pinch rollers for smooth feeding and transport of various media, including thin or slippery substrates. Each roller's pressure is adjustable for optimal performance.



VerteLith RIP included

MUTOH's VerteLith RIP offers advanced 6-colour printing, perfect for multi-layer jobs. With our exclusive Clear Tone screening, you'll achieve smooth gradients and outstanding skin tones.

Dual Print Heads

Two staggered 1440-nozzle piezo print heads deliver exceptional image quality up to 1440 x 1440 dpi.



Two UV LED Lamps

Dual 4" UV LED lamps ensure fast curing for instant and ready-to-use output.

3 Head Heights

Three head heights are available: 1.5 mm, 2.0 mm, and 2.5 mm, with easy one-touch adjustment. The 2.0 mm option is key to preventing media crashes and reducing print graininess.



DropMaster2

Ensures automated bi-directional alignment across varying media thicknesses, delivering precise prints without manual adjustments.

FeedMaster

Provides automated media feed adjustments, ensuring smooth, consistent media feeding for optimal print accuracy and reducing the need for manual corrections.

Media Tracker

Prints a barcode on each roll before it is removed. Upon reloading, a laser scans the barcode to accurately measure the remaining media, eliminating guesswork and preventing disruptions during printing.

Nozzle Area Select

Eliminates downtime by automatically selecting only active nozzle blocks in the event missing nozzles cannot be recovered.

Up to 5 layers printing without pullback!

The XpertJet 1682UR supports up to 5-layer printing, allowing you to create graphics that differ on the front and back. It also offers 4-layer printing, ideal for frontlit/backlit combi prints. 3-layer printing combines CMYK, White & Varnish for striking results. With 2-layer printing, you can achieve graphics with either a glossy or matte finish.



5 layer printing



Frontlit / backlit combi prints



Motorised Take-up Systems

You can setup the 1682UR with a 30 kg torque controlled take-up system suited for roll up of Ø 150 mm with start/stop linked to the printing. Or a 40 kg torque take-up suited for media rolls up to Ø 250 mm.



30 kg



40 kg

Key Specifications

Print Technology	Drop-on-demand micro piezo inkjet
Print Head	2 - staggered setup
Head Heights	Low: 1.5 mm / Middle: 2.0 mm / High: 2.5 mm
Nozzle Configuration	180 nozzles x 8 lines (each head)
Ink Setup Possibilities	2x4 CMYK or CMYK, Wh & Va
Resolutions	Up to 1440 x 1440 dpi
Drop Mass Range (pl)	3.8 to 28 pl
RIP	MUTOH genuine VerteLith RIP included - advanced 6 colour support



Media Specifications

Maximum Media Width	1625 mm – 64"
Maximum Print Width	1615 mm – 63.58"
Maximum Media Thickness	0.3 mm / 0.8 mm / 1.3 mm
Media measurements	Standard non motorized roll off system : Ø 200 mm / 2" and 3" / 30 kg
Motorized Take Up Systems	30 kg – start/stop linked to printing – roll up Ø 150 mm 40 kg – stepless speed adjust – roll up Ø 250 mm

Performance (m²/h)

Print Mode	4 colours CMYK	6 colours CMYK, Wh, Va	
	Single layer	Single layer	2 layers
Draft	27,3	13,2	7,1
High Speed	15,8	8,8	4,7
Production	13,0	6,8	3,4
Quality	8,9	4,4	2,0
High Quality	6,6	3,4	1,7

Ink Specifications

Ink Type	US61 series flexible UV LED inks
Ink Colours/Volume	C, M, Y, K, White, Varnish : Pack - 800 ml
Key Characteristics	<ul style="list-style-type: none"> • Excellent abrasion and scratch resistance • Flexible – up to 200 % elongation • Highly opaque white ink • Wide media compatibility • SVHC free – Substances of Very High Concern • CMR free – Category 1 – no carcinogenic, mutagenic nor reproduction toxic substances
Certification	GREENGUARD Gold certified – category Wallpaper

Power Consumption / Environmental Conditions / Dimensions

During Printing	950 W or less
Sleep Mode	21 W or less
Power Supply	Voltage: AC 100V~120V ± 10 %/ AC 200V~240V ± 10 % Frequency: 50/60Hz ± 1Hz
Environmental condition – printer operation	Temperature: 20°C~32°C Humidity: 40%~60% RH – no condensing
Environmental condition – accuracy guaranteed	Temperature: 22°C~30°C Humidity: 40%~60% RH – no condensing
External Dimensions	(W) 2770 x (D) 895 x (H) 1504 mm (with ink pack adapters mounted)
Weight	181 kg (Printer body: 149 kg, stand: 32 kg)