FALCON/RAPTOR

FALCON /1.6M
RAPTOR /3.2M

DUAL LED-UV LAMP SYSTEM

FOR MATT & GLOSS FINISH

FALCON

Print head		KYOCERA / RICOH			
Max. Print width		1.6 M / 63 Inches			
Ink		LED-UV Curable Ink			
Media type		Polypropylene, PVC, Backlit Film, Canvas, Fabric, Paper. etc			
Speed (Sqft / M²)	Print head	Outdoor Quality (4Pass)	Production (6Pass)	High Quality (8Pass)	Backlit (8Pass)
	Kyocera 3	340 / 32	246 / 23	200 / 19	200 / 19
	Ricoh 5 x 1 Row	302 / 28	188 / 17	155 / 14	117 / 11
	Ricoh 5 x 2 Row	604 / 56	376 / 35	310 / 29	234 / 22
	Ricoh 5 x 3 Row	905 / 84	563 / 52	464 / 43	350 / 33
Number of Head		Kyocera (2 to 4)		Ricoh (2 to 12)	
Colors		4 / 6 / 8		4 / 6 / 8	
Auto cleaning system		Include			
Weight		Net. weight 620KG (1367 lbs) / Gross weight 970KG (2138 lbs)			
Machine dimensions (cm)		L 349 / W 119 / H 170			
Packing dimensions (cm)		L 370 / W 111 / H 186			
Flatbed Table		Option			
Power requirement		Single Phase 220V ±10% (50/60Hz,AC) / 10A			
Ink	Kyocera 3	Cyan / Magenta / Yellow / Black / Light Cyan / Light Magenta / Gray			
	Ricoh 5	Cyan / Magenta / Yellow / Black / Light Cyan / Light Magenta / Orange / Green / White / Varnish			

RAPTOR

Print head		KYOCERA / RICOH			
Max. Print width		3.2 M / 130 Inches			
Ink		LED-UV Curable Ink			
Media type		Polypropylene, PVC, Backlit Film, Canvas, Fabric, Paper. etc			
Speed (Sqft / M²)	Print head	Outdoor Quality (4Pass)	Production (6Pass)	High Quality (8Pass)	Backlit (8Pass)
	Kyocera 3	372 / 36	270 / 25	220 / 20	220 / 20
	Ricoh 5 x 1 Row	356 / 33	221 / 21	183 / 17	138 / 13
	Ricoh 5 x 2 Row	712 / 66	442 / 41	366 / 34	276 / 27
	Ricoh 5 x 3 Row	1068 / 99	664 / 62	548 / 51	413 / 38
Number of Head		Kyocera (2 to 4)		Ricoh (2 to 12)	
Colors		4 / 6 / 8		4 / 6 / 8	
Auto cleaning system		Include			
Weight		Net. weight 1020KG (2249lbs) / Gross weight 1350KG (2976 lbs)			
Machine dimensions (cm)		L 490 / W 119 / H 170			
Packing dimensions (cm)		L 526 / W 111 / H 197			
Flatbed Table		Option			
Power requirement		Single Phase 220V ±10% (50/60Hz,AC) / 12A			
Ink	Kyocera 3	Cyan / Magenta / Yellow / Black / Light Cyan / Light Magenta / Gray			
	Ricoh 5	Cyan / Magenta / Yellow / Black / Light Cyan / Light Magenta / Orange / Green / White / Varnish			

TECHNICAL SPECIFICATION

Media handling	Roll to roll with auto take up
Media thickness	Maximum 5mm
Media roll weight	Maximum 200Kg
Curing system	LED-UV Lamp with air cooling system
Print heads	DOD piezo technology,automatic voltage and temperature control
Working environment	Temperature 20°C~30°C, Humidity 65%~75% (Recommended)
Connection Interface	USB 3.0 High Speed connection
Software	ONYX / CALDERA / PM6. etc

FALCON K3

SilkGloss
High gloss finishes
with wide color gamut
LED-UV Ink

Ricoh 5 x 3 Row Outdoor Quality
84 4Pass /M²

RAPTOR R5

texture
Single & Multi passes
textured color image
& graphices

Ricoh 5 x 3 Row Outdoor Quality
99 4Pass /M²

Photorealistic print quality
Heavy duty production printing
Hybrid printing capability

Dual lamp LED-UV curing system,
No lamination needed,
Matt & Gloss finish.

SilkGloss / High gloss finishes with wide color gamut LED-UV ink

texture / Single & Multi passes textured color image & graphices

LEDUV CURING TECHNOLOGY

FALCON RAPTOR

PHOTOREALISTIC PRINT QUALITY
HEAVY DUTY PRODUCTION PRINTING
HYBRID PRINTING CAPABILITY
DUAL UV LAMPS SYSTEM
NEW SPECIAL COLOR INK

Advantages of LED-UV curable technology

- Non mercury & odorless LED-UV deliver no UV radiation, running with low energy comsumption and low heat compare to conventional UV technology.
- 30,000 hours average long lifecycle with very low deterioration thus consistent long hours output can be maintained.
- LED-UV ink only cured after exposure of high content of LED-UV light, maintenance of printhead become minimal and easy. Printhead lifecycle can be prolonged.

Super SilkGloss effect / Dual UV lamps system

Our revolutionary two-stage LED-UV curing technology will eliminate the UV banding effects encountered in conventional UV curing process, thereby delivering superb image quality prints. Switching between matt and gloss effect can be easily achieved with our proprietary ink technology, curing methods and software control.

Precise Media loading for accurate dot placement

Our new media loading system allows accurate dot placements & size thus delivering superb quality prints.

* Industrial grade motor and assembly resulting in stable print carriage during high speed printing.
* New pinch-roller system with anti-slip capability.
* Synchronized media loading/unloading system for consistent media tension in long hour printing.
* Multi-point vacuum printing platen for enhanced media handling.

Multi-media loading options

3 media loading options cater for lightweight, heavyweight & soft media. Different media can be handled accordingly.

* 2"& 3" media core design for easy lightweight media loading/unloading.
* Traditional full-width media spindle for stable printing.
* Lightweight media roller guide for soft/lightweight tensioning, media can be printed with smoother and aligned surface.

Ease of use printer control software (PCS) with high compatibility solution

* Printer & system status control is easily displayed & monitored. Setting at your fingertips.
* Highly compatible firmware works with most of the industrial RIP software such as ONYX, CALDERA, PM6.

All new evolution of LED-UV ink!!!

Superb high-gloss finish LED-UV ink delivering wide color gamut comparable to Solvent ink, vivid color with high-gloss effect. Perfect dot shape and size.

Orange & Green LED-UV ink delivering super wide color gamut

Optional new Orange & Green special color LED-UV ink, a full upgrade of color spectrum with super wide color gamut of your printer.
Special Color Orange & Green deliver more accurate industrial color, crisp image, smoother gradient, wider gamut and best print quality.

Image enhancement in between Black and White: Gray Special Color ink

Gray special color LED-UV ink option improves grayscale, a light to dark print area is now prefectly addressed. Depth of image between black and white is enhanced and it will deliver a much more professional grayscale photorealistic print quality.

No lamination needed. Matt & Gloss finish.

High water and scratch resistance ink. No lamination needed. Matt & gloss finish with just one push of the button.
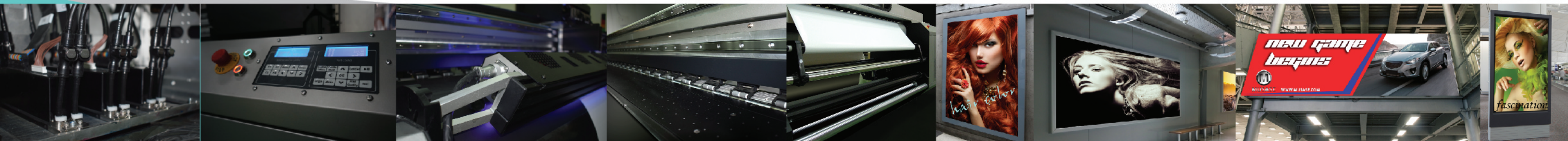
Lamination is usually needed as protection to prolong the lifecycle and glossy effect of a printout. LDP LED-UV inks carry, good outdoor durability, scratch and water resistance without lamination. Vivid and wide color gamut with Glossy effect; Excellent texture and solid effect with Matt & Gloss finish effect is easily determined with just ozne push of the button.

Unleash new applications with White Ink

White ink delivering special print mode: W+Color, Day & Night, Sandwich, Emboss, Dual Image etc.

* W+Color: Printing on Colored & Clear Material such as banner, polycarbonate, cardboard, glass, clear film, clear PET etc. Application: Printing color on colored banner.
* Day & Night: Color consistency with frontlit & backlit. Application : Lightbox with consistent color with & without light on.
* Sandwich: Identical images on both sides. Application: Bi-directional PET sign, hassle-free and precise registration by printing both images simultaneously.
* Emboss: A multi-layers white ink relief printing, 2.5D effect! Application: oil painting replica.
* Dual Image: One picture with two images. Application: Backlit banner showing two different images while light on or off.

Optional Items

Backdrops   Fine Art Printing   Building Drop Downs   Backlit Hoardings