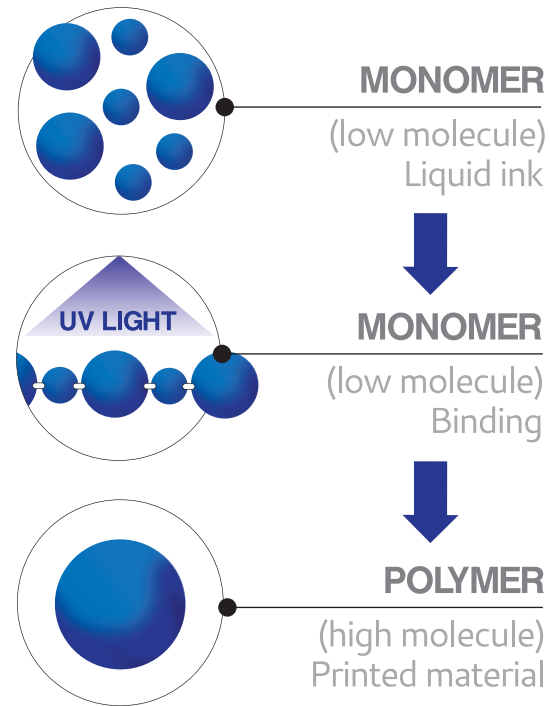


UV TECHNOLOGY

Relatively new, but rapidly emerging technology.

UV curing has been widely adopted in many industries including automotive, telecommunications, electronics, graphic arts, converting and metal, glass and plastic decorating. UV digital inkjet technology has been used for a number of commercial applications, from the relatively low-cost, thermal inkjet coding and marking system to the higher speed and capability Piezo technologies which are used in systems that range from single-pass to high-speed, wide-format roll or flatbed systems.

UV curing inks change from a liquid to a solid state when polymerisation takes place under exposure to ultra-violet light. Using light instead of heat, the UV curing process is based on a photochemical reaction. Liquid monomers and oligomers are mixed with a small percent of photoinitiators, and then exposed to UV energy. In a few seconds, inks, coatings and adhesives instantly harden – offering many advantages over traditional drying methods.

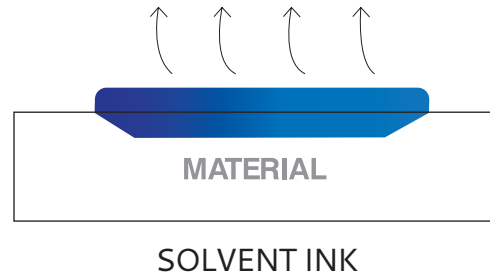
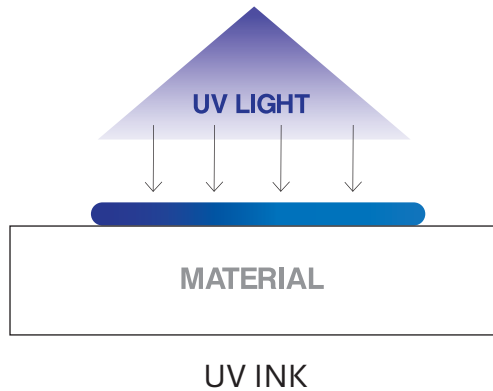


Conventional heat and air drying works by solvent evaporation. This process shrinks the initial application of coatings by more than 50% and creates environmental pollutants. In UV curing, there is no solvent to evaporate, no environmental pollutants, no loss of coating thickness, and no loss of volume. This results in higher productivity in less time, with a reduction in waste, energy use and pollutant emissions. UV curing increases production speed, reduces reject rates, improves scratch and solvent resistance and facilitates superior bonding.

The use of UV – curable inks in digital graphics, coupled with the development of flatbed inkjet printing systems, has led to two significant

developments in the industry. First, UV allows for printing onto a wide range of substrates. It is being successfully used on surfaces such as corrugated, rigid plastics, glass, metal and ceramic tile. Second, due to the durability of images printed with UV, imagers are able to present a durable final product without the need for protective surfaces such as laminating film or liquid lamination.

Final prints exhibited increased weather ability, scratch and chemical resistance and decreased odor and taint. UV printing has no infrared emissions – no heat, therefore product is not damaged with added heat which enables new applications on heat sensitive media.



AZON UV PRINTERS

Experience the evolution of UV printing with Azon UV printers.

Constantly striving for innovations Azon is engaged in development of UV printing equipment to meet the high customer demand and has mastered the technology of UV LED ink and UV LED printing with UV inkjet printers.

Best performing, UV printers, with superior performance and outstanding print quality come in 3 formats with printable surface 30x80 cm (A3), 42x60 cm (A2) and 60x80 cm (A1) and can print on unbelievable range of materials, products and substrates.

It is equipped with UV led lamps which earn acclaims for its UV curing reliability and ozone – free configuration. Besides environmentally friendly technology, it offers application on objects up to 20 cm and with outstanding reproduction quality up to 5760 dpi that can

reproduce even the finest image details in exceptional quality. They produce incredibly crisp text and vibrant, full – color images with outstanding solvent and abrasion durability on a variety of substrates and 3D objects, from wood and stainless steel to ceramic tiles, plastics and glass, surfaces can be either smooth or rough, flat or bend.

This is cost effectively digital printing system with an intelligent laser beam print head protection. Standard model comes with cmykwwww colors (option – gloss cmykww or primer cmyk–ww). Azon UV white ink creates a very dense image, allowing users to print on any colored substrate and produce amazing, bright colors with a white under base, while gloss ink gives gloss or multi – coat effects to the surfaces of printed objects.

AZON Q L & Q ROTAX

UV A2 models come in two different max printing heights.

- > Print up to 10cm thickness with Q L
- > Print up to 30cm thickness with UV Q ROTAX



● **MORE ACCESSIBLE
CONTROLS**



● **220cc CMYK + WHITE
+ GLOSS COLOR**



● **CLEANING PAD
ACCESS**



Model	Azon Q L, UV Q ROTAX
Printing technology	Ink-jet (Piezo 180 nozzles per channel)
Printing size	Max 420mm x 600mm,
Media thickness	Max 100mm (Q L), 300mm (UV Q ROTAX)
Ink cartridges	<ul style="list-style-type: none"> ▶ Color cmykwww (option; cmykwwgg or cmykwwpp) ▶ Ink Azon UV Inks – sealed, degassed, pressurized cartridges ▶ Capacity 220 cc
Ink-curing unit	UV-LED lamp
Printing resolution	Max 1440 dpi
Power consumption	156 W, Standby 16.7 W
Power requirements	AC 100 to 240 V ±10%, 1.8 A, 50/60 Hz
Acoustic noise level	During operation: 60 dB (A) or less
Droplet technology	Smallest droplet size 3,5 picoliters
Nozzle configuration	Color and monochrome heads 180 nozzles x 8
Printing speed	3min 20sec (WHITE layer + CMYK layer, uni-directional, 150x100mm, 1440x1440dpi)
Connectivity	USB 2.0, 100Base-T Ethernet
Power on	20° to 30°C, 20 to 80% RH
Dimensions	830x810x450mm (Q L), 1140x940x950mm (Q ROTAX)
Weight	95kg
Software	Azon JET RIP
Operating system	Windows 7 (32-bit, 63-bit), Vista (32-bit, 63-bit), XP

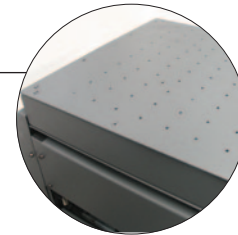
AZON Q UV

Print color and white (or primer) in single pass with A3 model.

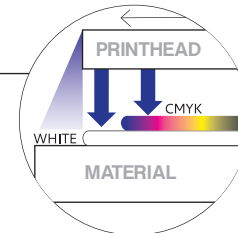
- > Print up to 20cm thickness
- > Print max resolution 5760 dpi



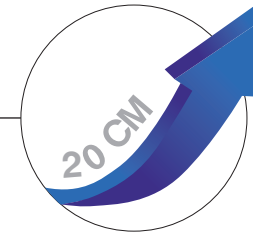
● **BUILT IN VACUUM TABLE**



● **SINGLE PASS PRINTING**



● **MAX HEIGHT 20 CM**



Model	Azon Q UV
Printing technology	Ink-jet (Piezo 180 nozzles per channel)
Printing size	Max 300mm x 800mm, max thickness 200mm
Ink cartridges	<ul style="list-style-type: none"> ▶ Color cmykwwww (option; cmykwwgg or cmykwwpp) ▶ Ink Azon UV Inks – sealed, degassed, pressurized cartridges ▶ Capacity 220 cc
Ink-curing unit	UV-LED lamp
Printing resolution	Max 5760 x 1440 optimized dpi
Power consumption	156 W, Standby 16.7 W
Power requirements	AC 100 to 240 V ±10%, 1.8 A, 50/60 Hz
Acoustic noise level	During operation: 60 dB (A) or less
Printer speed	<ul style="list-style-type: none"> 203mm x 254mm print approx. 1min 8sec 279mm x 355mm print approx. 1min 43sec
Droplet technology	Smallest droplet size 1,5 picoliters
Nozzle configuration	Color and monochrome heads 180 nozzles x 8
Connectivity	USB 2.0, 100Base-T Ethernet, WiFi Certified (802.11n)
Power on	20° to 30°C, 20 to 80% RH
Dimensions	800 x 830 x 1300 mm
Weight	112kg
Software	Azon JET RIP
Operating system	Windows 7 (32-bit, 63-bit), Vista (32-bit, 63-bit), XP

AZON UV TT & Q PRO / L

A1 and B0 models for large quantities.

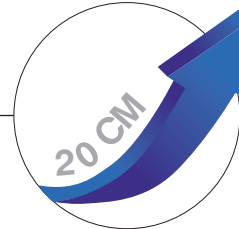
- > Print up to 20cm thickness
- > Built in vacuum table in models Q PRO/ PRO L



● **3 SIZES**
A1, A1+, B0



● **MAX HEIGHT**
20 CM



● **COLOR**
CMYK, WHITE, GLOSS



Model	Azon UV TT, UV Q PRO, UV Q PRO L
Printing technology	Ink-jet (Piezo 180 nozzles per channel)
Media weight	Max 10 kg (UV TT), max 20kg (UV Q PRO / PRO L)
Printing size ▶ UV TT	Max 600mm x 800mm, max thickness 10cm
▶ UV Q PRO	Max 600mm x 1200mm, max thickness 20cm
▶ UV Q PRO L	Max 1180mm x 2450mm, max height 20cm
Ink cartridges ▶ Color	cmykwwww (option; cmykwwgg or cmykwwpp)
▶ Ink	Azon UV inks – sealed, degassed, pressurized cartridges
▶ Capacity	150 cc
Ink-curing unit	UV-LED lamp
Printing resolution	Max 1440 dpi
Power consumption	156 W, Standby 16.7 W
Power requirements	AC 100 to 240 V ±10%, 1.8 A, 50/60 Hz
Acoustic noise level	During operation: 60 dB (A) or less,
Dimensions ▶ UV TT	1300 x 1200 x 680 mm
▶ UV Q PRO	1800 x 1000 x 1500 mm
▶ UV Q PRO L	3500 x 1800 x 1200 mm
Weight	230kg (UV TT), 350kg (UV Q PRO), 710kg (UV Q PRO L)
Power on	20 to 30°C, 35 to 80% RH
Software	Azon JET RIP

SUBSTRATES

Print on wide range of compatible substrates.

PVC



LEATHER



GLASS



WOOD



CERAMIC



ALUMINIUM



PLASTIC



CANVAS



POLYESTER



STEEL





MARKETS & APPLICATIONS

UV digital inkjet is dominant method for many markets and applications.

Signage
Braille Signage
In house signage
Screen Printers
Pad Printers
Offset Printers
Flexography
Giftware industry
Industrial Marking
Labeling
Packaging
Promotional Products

Indoor and outdoor
Short Runs
Customization
Stationary
Point of Sale
Labeling
Retail POP Signage
Proofing
Thermoforming
Membrane switches

Azon offers excellent service and support. With an Azon printer you will receive factory training, applications assistance after installation, around-the-clock technical support and a host of other tools. Azon provides users with all the service, support and education needed to maintain productivity; both online, over the phone and in person – to make the most out of an investment in an Azon printer.

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