



## UV LED printing: technological and environmental benefits

### Technological benefits

- ✓ Problem-free printing on heat sensitive and other demanding media
- ✓ No drying time, the printed media is cured immediately
- ✓ UV LEDs do not require warm up time
- ✓ Long lifetime of LEDs up to 5000 hours

### Environmental benefits

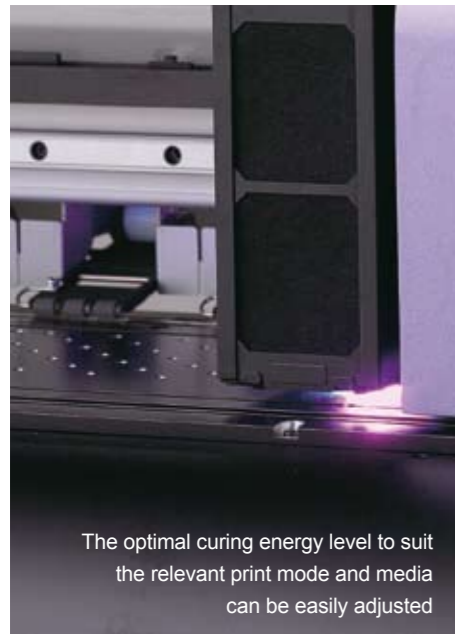
- ✓ Low energy consumption
- ✓ Low level of VOC's
- ✓ Print ozone free, no short wavelength ultraviolet rays
- ✓ Reusable Eco ink packages (600 cc)



# New technology, new benefits

### Multifunctional

UJV-160 offers extraordinary flexibility. Users can choose between roll and rigid media, as well as either hard ink or flexible ink. No matter what the choice is, UJV-160 opens up endless possibilities to print on different kinds of substrates and for various applications.



The optimal curing energy level to suit the relevant print mode and media can be easily adjusted

### No media deformation

Vulnerability to heat is one of the problems associated with printing on PVC. Users employing the UJV-160 do not have to worry. Mimaki's first inkjet printer using UV LED technology does not emit infrared rays that cause thermal deformation of PVC. The innovative UV LED curing technology enables problem-free printing on PVC and other heat sensitive media.

### No drying time

UV curing enables instantaneous drying. Thus, no post printing drying time is necessary. The job turnaround time from printing to processing is shortened and improves work efficiency and productivity.

### Hard and flexible UV inks

Flexible LF-200 ink is available for printing on curved and stretchable media and hard LH-100 ink for printing on rigid substrates. These are available in 600 cc ink containers and reusable Eco-packages.

Mimaki's flexible UV LED curable inks employ a formula which enables stretching of

the substrates after print for applications such as car wrapping. The cured ink does not crack, even when the surface is bent or curved. This enables printing on thin PVC for vehicle wrapping, shutters and many more similar applications. 3M offers an MCS warranty programme\* for graphics printed with LF-200 ink.

\*Only when using 3M's specific media and recommended method.

### White ink

The "White Ink Overlay Print" function, Mimaki's exclusive innovation, allows for simultaneously white and full colour printing on transparent or opaque substrates, as well as realises a beautiful finish with accurate overlay.



### Environmentally friendly, eco compliant technology

UV LED curing technology does not emit short wavelength ultraviolet rays that generate ozone. Additionally, UV LED curing inks contain low levels of VOC's, thus reducing the environmental footprint even further.

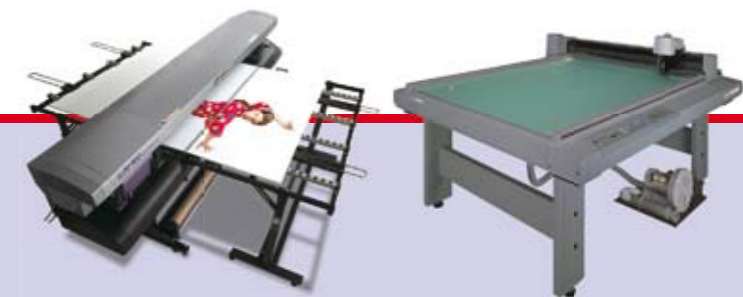
UV LEDs can last up to 5000 hours and reduce power consumption by half or less, compared to conventional UV-curing lamps.\*

\*Compared with Mimaki's own metal halide lamp.



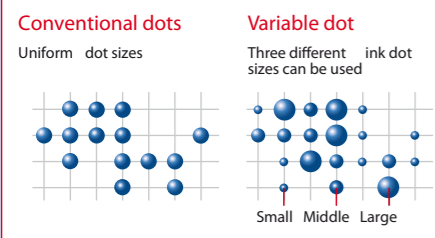
### Substrates and applications

UJV-160 enables printing on roll and rigid media. This includes media such as vinyl, backlit, banner, canvas, paper, aluminum composite panels, acrylic boards, carton boards, foam boards and channel boards.



Print and cut combo with CF2 Series

for rigid media up to 10 mm



Variable dot sizes  
3 dot sizes, S, M and L, can be controlled. Also uniform dot size can be employed.

### High quality printing with 1200 dpi

UJV-160 achieves its high image quality due to a maximum resolution of 1200 x 1200 dpi and employs three variable dot sizes. This enables rich and vivid colours bringing the designer intended images to life.

Print speed (Variable dots)	m <sup>2</sup> /h (sq.ft.)
1200 x 1200 dpi 8 pass Uni-direction	5.0 (53.8)
600 x 900 dpi 6 pass Uni-direction	7.0 (75.3)
600 x 600 dpi 4 pass Bi-direction	12.0 (129.1)

\* Depending on print mode, non-curing UV ink remains

### The tables for rigid media are included

As standard, UJV-160 comes with feed and delivery tables in order to enable printing on rigid substrates up to 10 mm thickness and 12 kg weight. The tables are foldable, thereby saving space when not needed.