


# Canon

CANON SOLUTIONS AMERICA

 CANON SEE IMPOSSIBLE



BREAKTHROUGH  
PRODUCTIVITY

NEVER SEEN BEFORE  
AUTOMATION

WIDE  
APPLICATION  
RANGE

LOWEST COST  
OF OPERATION

ROBUST, INDUSTRIAL  
PRODUCTION  
PLATFORM

ODORLESS,  
INSTANT DRY  
PRINTS

OUTSTANDING  
SCRATCH  
RESISTANCE

## OCÉ COLORADO 1640 PRINTER

*Powered by Canon UVgel Technology*

The world's fastest 64" roll-to-roll printer



OCÉ COLORADO 1640 PRINTER



A CANON COMPANY

# WE BROKE ALL THE RULES



- Breakthrough productivity
- Never seen before automation
- Wide application range
- Lowest cost of operation
- Robust, industrial production platform



## OCÉ COLORADO 1640 PRINTER

*Powered by Canon UVgel Technology*

### **Experience unprecedented print speed, quality, and cost-effective operation**

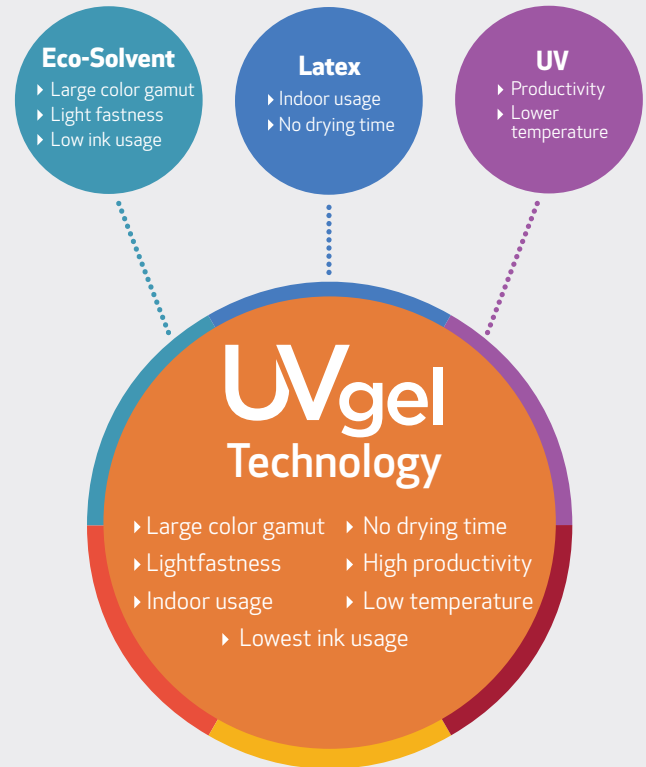
Powered by Canon UVgel technology, the new Océ Colorado 1640 printer fills the current gap in the roll-to-roll production market. Print Service Providers (PSPs) now have a clear choice that will deliver real production efficiency while lowering operating costs, resulting in growing profits. Print volume has continued to grow, while turnaround times continue to shrink. This technology was developed to provide a competitive edge for PSPs in this new market space.

The Océ Colorado 1640 printer is excellent for both indoor and outdoor applications. It delivers a large color gamut, similar to solvent inks, but combines this with the environmental benefits and safety profile of latex systems.

## WHAT IS UVgel?

Canon has developed a new UVgel technology that is having its debut in the Océ Colorado 1640 printer. UVgel technology is not a copy or evolution of existing technologies. It is an entirely NEW breakthrough, game-changing technology.

When developing UVgel technology, we analyzed current market technologies: solvent, eco-solvent, latex, and UV. Each technology has its specific strengths as well as limitations. We developed this UVgel product with one thought in mind—to combine all of the strengths of each of these technologies and eliminate their limitations for one single solution. Because these features are at the core of UVgel, we are able to break the laws of printing physics and print at speeds never before possible.



## Features and benefits

### INSPIRATION BY DESIGN

The Océ Colorado 1640 printer sets a new standard in industrialization and automation. It features a heavy-duty drawer mechanism that holds up to two rolls of media at one time, each weighing up to 110 pounds. The two rolls can be of the same media type and size or different media, and once initialized, the print engine can switch jobs between rolls without operator assistance.

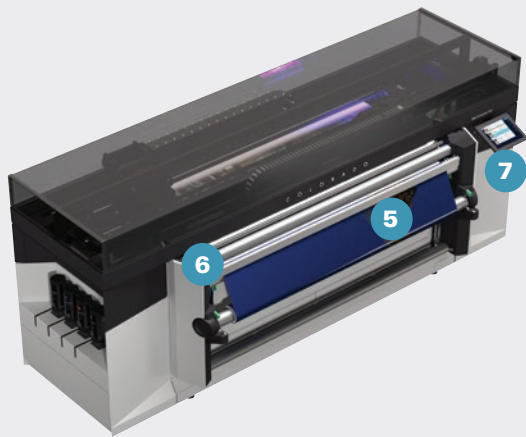
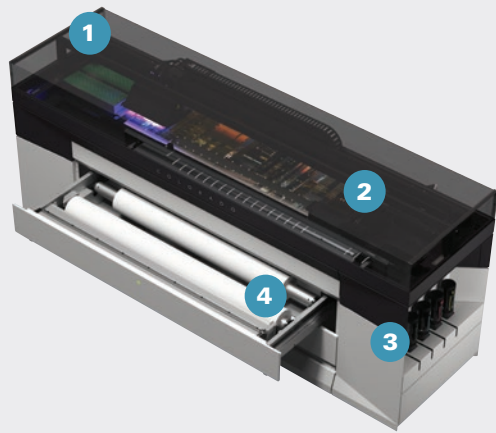
Along with our automated maintenance feature, the UVgel printheads incorporate a patented on-the-fly quality assurance control with continuous nozzle monitoring to detect and correct any underperforming nozzles. Canon's patented nozzle monitoring technology automatically checks all nozzles by using acoustic sampling and detects nozzle misfires before they actually happen.

With the robust frame and industrial motors, we developed a reliable media handling system. In addition, we've also added an optical system that

continuously monitors the media step. We do this by printing virtually invisible marks at the side of the print that are read by a scanner, and the system uses this information to continuously correct the media step.

### ADDITIONAL FEATURES:

- A radically new UV curable ink from Canon that bonds instantly on contact with the media, prior to LED curing. This results in precise dot placement and no dot gain for consistent high-quality images at high speed.
- UVgel offers the large color gamut of solvent inks and combines that with the environmental benefits and safety profile of latex inks.
- Ultra-thin ink dispersion with almost no discernible physical profile and the lowest ink consumption rate can provide up to a 40% reduction in printing costs compared to 64" eco-solvent and latex systems.



- 1 BUILT FOR SPEED**  
The world's fastest 64" roll-to-roll printer with a maximum usable print speed of 1,710 ft.<sup>2</sup>/hr. for outdoor banner applications
- 2 DESIGNED FOR HIGH VOLUMES**  
Industrial designed production printer capable of printing higher print volumes and built to withstand high-duty cycles
- 3 COST EFFECTIVE**  
Up to 40% reduction in ink/printing costs when compared to other 64" roll-to-roll technologies
- 4 UNINTERRUPTED PRINTING**  
Extremely easy and fast media loading and automatic switching with the support of two in-line rolls
- 5 HIGH QUALITY WITHOUT SACRIFICE**  
Very high print quality across a wide range of applications without having to significantly compromise productivity by reducing speed
- 6 BREAKTHROUGH PRODUCTIVITY**  
On-the-fly quality assurance technology facilitates unattended printing and reduced print waste
- 7 INNOVATIONS IN AUTOMATION**  
Automated maintenance provides consistent print quality and higher uptime

## Applications

### OUTDOOR BANNERS

Outdoor Banners are a high-demand application in the wide-format market. The Océ Colorado 1640 printer stands out in this segment with its wide color gamut and scratch-resistance features. We developed the UVgel inks with this market in mind and manufactured our pigments specifically for long outdoor durability.

### INDOOR POP

Inexpensive, indoor POP signage is a strategic application for the Océ Colorado 1640 printer because we do not use heat in our curing process. The UVgel technology has a strong advantage here and delivers high-quality printing at high speeds on very inexpensive and heat-sensitive media like thin polypropylene films.

### WALL COVERINGS

This is a very promising application for all digital print shops and there is a huge analog market that is waiting to become digital. When producing this type of application, two things are absolutely crucial: color accuracy and geometric consistency across panels. Because of the nature of UVgel technology, dot gain is never an issue, so by definition, the Océ Colorado 1640 printer has the best color consistency. With no heat in our curing process, we prevent the media from being stretched or deformed (unlike latex or eco-solvent) which makes this the perfect technology for wallcovering applications.



## FLOOR GRAPHICS

When considering floor graphics, standard eco-solvent technologies need to outgas before they can be laminated, which requires extra production hours. These traditional floor graphic applications may even require a special lamination process because of the extensive durability and texture requirements.

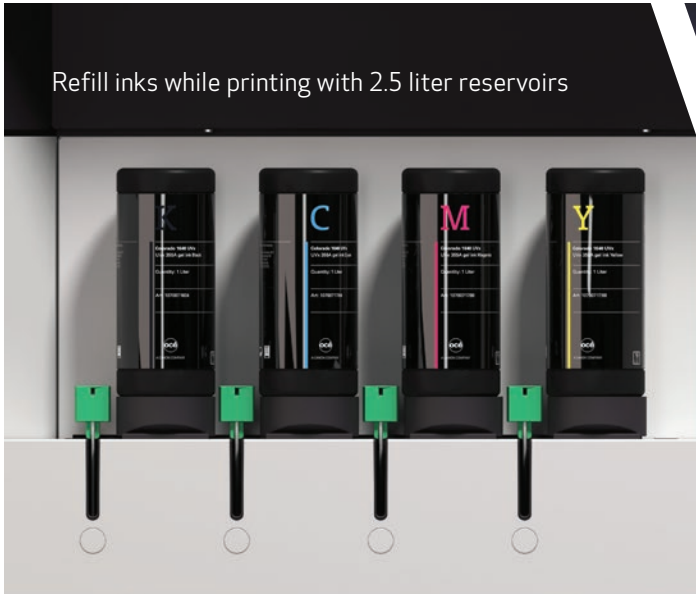
These problems don't exist for the Océ Colorado 1640 printer, the UVgel technology dries instantly enabling you to finish these types of applications instantly. The printed output can be finished using any standard or pressure sensitive laminate materials. You also have the option of using "Print and Go" graphics and TexWalk® materials. This option affords you the ability to print directly on these materials without the need for lamination.

## BACKLIT

Print Service Providers are looking for increased productivity in the backlit market to meet client demands. Backlit applications are a key focus for this segment, not only for the visual impact for brand owners, but also for the high-margin opportunities for the print service provider.

To achieve this type of quality, it requires a very slow print mode on most printers. This is not the case with the Océ Colorado 1640 printer, with UVgel technology we do not require intermediate curing. This feature allows the Océ Colorado 1640 printer to achieve print speeds that were previously impossible.

Refill inks while printing with 2.5 liter reservoirs



Advanced "self-aware" piezoelectric printhead technology



PRINTING	
Printing method	Océ UVgel piezoelectric inkjet
Printing modes	Outdoor Banner HS: 1,710 ft. <sup>2</sup> /hr. (159 m <sup>2</sup> /hr.) Outdoor Banner mode: 1,230 ft. <sup>2</sup> /hr. (114 m <sup>2</sup> /hr.) Indoor Quality mode: 610 ft. <sup>2</sup> /hr. (57 m <sup>2</sup> /hr.) Indoor High Quality mode: 430 ft. <sup>2</sup> /hr. (40 m <sup>2</sup> /hr.) Backlights/Specialty mode: 215 ft. <sup>2</sup> /hr. (20 m <sup>2</sup> /hr.)
Print resolution	Up to 1,800 dpi
Ink types	UVgel 355 ink
Ink color	CMYK
Ink packaging	2 x 1 liter ink bottle Ink reservoir can accommodate up to 2.5 liter per ink color Refill while printing
Printheads	UVgel 415 printhead High frequency drop-on-demand piezoelectric printhead (two per color) Océ PAINT® (Piezo Acoustic Integrated Nozzle Technology) constantly monitors and compensates for nozzle failures that can occur during printing
Automatic maintenance	Automatic maintenance performed daily in seconds
Curing	UV LED
MEDIA	
Roll width	Up to 64" (1,625 mm)
Print margin	0.21" (5.3 mm)*
Roll weight	Up to 110 lb. (50 kg)
Roll diameter	Up to 8.7" (220 mm)
Media thickness	Up to 0.03" (0.8 mm)
Number of input rolls	2 (automatic roll-feeding and switching**)
Media take-up system	Wound-in*** or out, loosely or tightly

\* Margin 0.43" when yellow markers are used (recommended for print modes up to 431 ft./hr. for optimized output quality)

\*\* Except when the second media requires tight winding, then operator interaction is required.

\*\*\* Available shortly after introduction via software update



FEATURES	
Interface	Ethernet (100/1000 Mbit/s)
SIZE AND WEIGHT	
Printer dimensions (W x D x H)	119" x 43" x 52" (3,022 x 1,093 x 1,300 mm)
Printer weight	1,631 lb. (740 kg)
WORKING ENVIRONMENT	
Operation printer	64–86°F (18–30°C) Recommended 68–81°F (20–27°C) 20–80% RH (no condensation) (recommended 30–60%)
POWER	
Consumption	Up to 4 kW printing
Source	2 inputs, each 200–240V ± 10%, 50/60 Hz, 12/6 A.
REGULATORY CERTIFICATIONS	
Safety	LVD and IEC 62368-1 compliant; CE, TUV-GS, C-UL-US, RCM, CB
Electromagnetic	EMC class A compliant (CISPR 32 and FCC part 15) incl. FCC, RCM, ICES–Cetecom
Environmental	WEEE, RoHS, REACH, CE, GREENGUARD GOLD (wall paper general)
SOFTWARE	
Supported RIPs	ONYX® Graphics, Caldera

# WHY CANON SOLUTIONS AMERICA.

Canon Solutions America recommends forward-thinking strategies to achieve the highest levels of information management efficiency for your unique business needs. Using superior technology and innovative services, we then design, implement, and track solutions that improve information flow throughout your organization in environmentally conscious ways, helping to result in greater productivity and reduced costs.

**There are many reasons why you should choose Canon Solutions America as your provider for document management solutions. Benefits include:**

- A Canon U.S.A. Company
- Business Services
- Professional Services
- Global Capabilities
- Certified Training and Support
- Flexible Finance Options
- Single-Source Solutions Provider
- Managed Document Services
- Nationwide Coverage
- Customized Industry Solutions
- Genuine Canon and Océ Parts and Supplies
- Diverse Range of Input-to-Output Technology

But that's not all. As a company that is dedicated to your needs, we support our solutions with highly skilled professionals and advanced diagnostic systems to maintain peak performance. And with ongoing consultation, we can further your document management capabilities to ensure the highest level of satisfaction and productivity.



CANON SOLUTIONS AMERICA

## LARGE FORMAT SOLUTIONS

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