



BREAKTHROUGH
PRODUCTIVITY

NEVER SEEN BEFORE
AUTOMATION

WIDE
APPLICATION
RANGE

LOWEST COST
OF OPERATION

ROBUST, INDUSTRIAL
PRODUCTION
PLATFORM

ODORLESS,
INSTANT DRY
PRINTS

OUTSTANDING
SCRATCH
RESISTANCE

Canon

OCÉ COLORADO 1640 PRINTER

Powered by Canon UVgel Technology

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



Médiattech

Fournitures d'impression et équipements

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WE BROKE ALL THE RULES



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



OCÉ COLORADO 1640 PRINTER

Featuring the Canon UVgel Technology

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

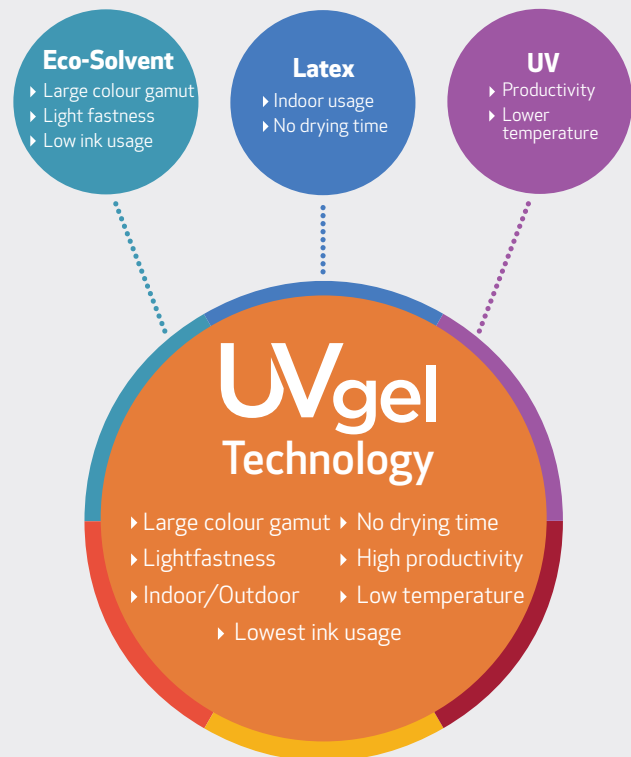
Featuring Canon UVgel technology, the new Océ Colorado 1640 printer fills the current gap in the roll-to-roll production market. Print Service Providers (PSPs) now have a clear choice that will deliver real production efficiency while lowering operating costs, resulting in growing profits. Print volume 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 colour 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.

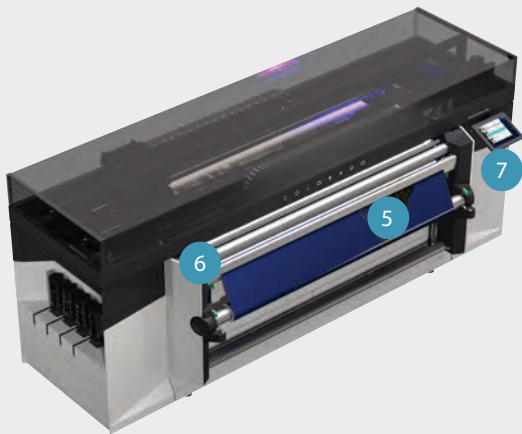
Along with our automated maintenance feature, the UVgel printheads incorporate a patented on-the-fly quality assurance control with continuous nozzle monitoring to detect and correct any underperforming nozzles. Canon's patented nozzle monitoring technology automatically checks all nozzles by using acoustic 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 colour 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.²/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 colour 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: colour 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 colour 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

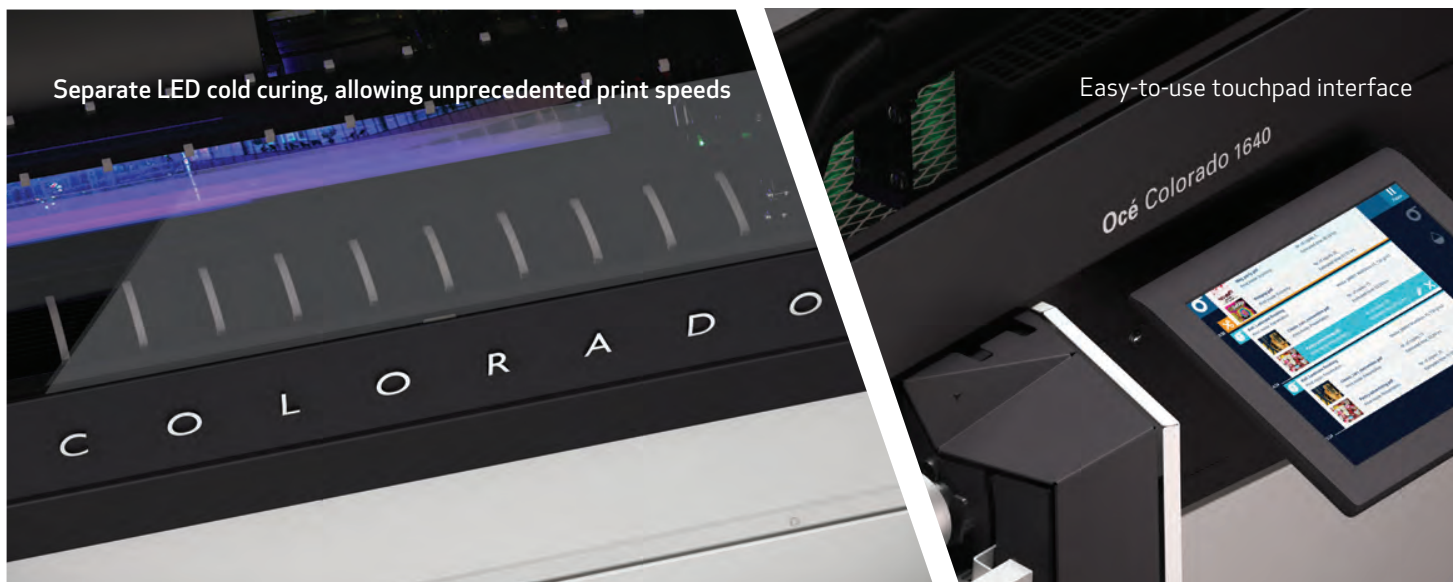


| PRINTING | |
|-----------------------|--|
| Printing method | Océ UVgel piezoelectric inkjet |
| Printing modes | Outdoor Banner HS: 1,710 ft. ² /hr. (159 m ² /hr.) Outdoor Banner mode: 1,230 ft. ² /hr. (114 m ² /hr.) Indoor Quality mode: 610 ft. ² /hr. (57 m ² /hr.) Indoor High Quality mode: 430 ft. ² /hr. (40 m ² /hr.) Backlights/Specialty mode: 215 ft. ² /hr. (20 m ² /hr.) |
| Print resolution | Up to 1,800 dpi |
| Ink types | UVgel 355 ink |
| Ink colour | 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 colour) 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 |

ABOUT THE PROFESSIONAL PRINTING SOLUTIONS GROUP.

The Professional Printing Solutions Group (PPSG) is a division of Canon Canada. Formed in January 2014 after Océ-Canada Inc. was amalgamated by Canon Canada Inc., PPCG is the leading provider of printing solutions for professionals. PPCG's product offerings include digital presses, high speed digital production printers, wide format printing systems and workflow software for transaction, direct mail, graphic arts, technical documentation and colour display graphics.

ABOUT CANON CANADA INC.

Canon Canada Inc., a wholly owned subsidiary of Canon U.S.A., is a leading provider of consumer and business-to-business digital imaging technology solutions. Innovation and cutting-edge technology have been essential ingredients in Canon's success. Its parent company, Canon Inc., ranks among the Top 4 in US patents registered since 1994. Canon ranks among the world's Top 30 brands and is one of Forbes' Magazine's World's Most Admired Companies. Canon Canada Inc. is committed to the highest level of customer satisfaction and loyalty, providing 100 per cent Canadian-based service and support for all of the products it distributes. Canon Canada Inc. is dedicated to its Kyosei philosophy of social and environmental responsibility.



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