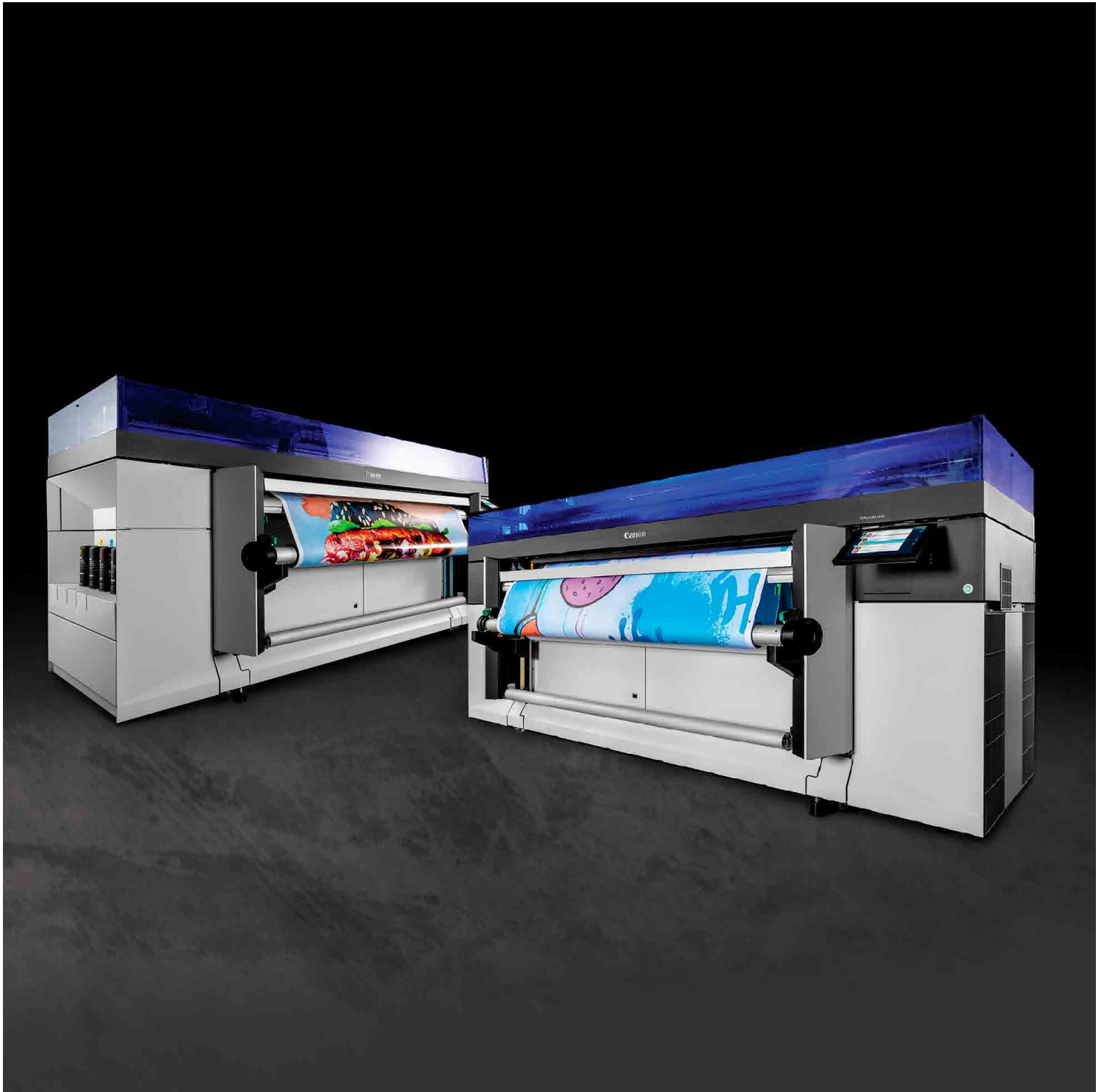# THE UVGEL ADVANTAGE

Meet the Colorado family

SMART CHANGE STARTS HERE.

In today's printing world, it is not enough to be the best at what you do. Customers increasingly want to be able to rely on you for a large variety of eye-catching, innovative applications—at a competitive price and with immediate turnaround.

With the Colorado series and Canon's proven UVgel technology, you will no longer have to turn down or outsource lucrative jobs. Reinforce your reputation as a forward-thinking print provider with a Colorado series large format graphics printer, and confidently accept the most complex roll-to-roll jobs in-house.

You will be impressed by the productivity, reliability, and versatility of the Colorado systems, every single day. Your customers will be impressed by the stunning quality you deliver—and the end products you can offer them, based on numerous applications printed on all kinds of media. Best of all, the Colorado printers are developed to fit seamlessly into your workflow, to give you ease and control and to help you significantly lower your operating costs. Their high productivity is supported by automation on an industrial level; the kind you only expect in bigger, more expensive engines.

UVgel technology was revolutionary when it was first introduced. Today, it has proven itself as the new standard in digital large format printing, with years of award-winning success in the 64" roll-to-roll market.

Stand out from the competition. Offer stunning quality and service. And enjoy the Colorado's low cost of operation at the same time. Embrace the UVgel advantage!

SHORTER LEAD TIMES

Breakthrough productivity

▲ **FLXFINISH MATTE OR GLOSS**

An ingenious curing strategy results in two distinct finishes: shiny gloss or velvety-matte.

CUSTOMERS ARE LOOKING FOR EVER-SHORTER TURNAROUND TIMES.

Did you know that more than 60% of large format print jobs need to be delivered within 24 hours?

▲ **REFILL INKS WHILE PRINTING**

A large 2.5 liter reservoir allows operators to refill ink while printing, at their own convenience.
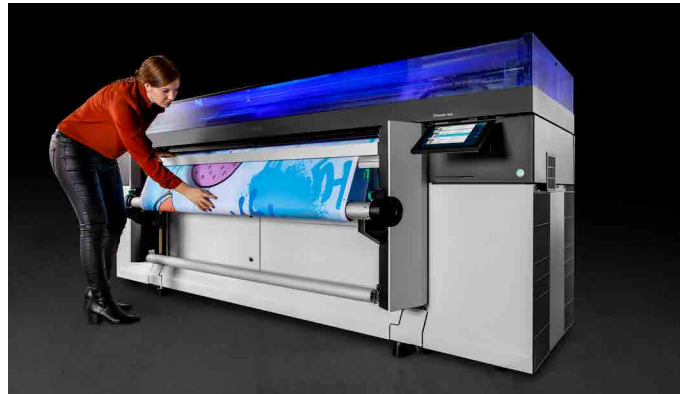
The Colorado series was developed for non-stop printing and unmatched productivity.

- High-speed printing with a consistent, high-quality output
- Instant-dry prints
- Controlled dot gain for better print quality in fewer passes
- Online media switching
- Ink refill while printing plus lower ink consumption
- Robust prints without lamination

Your Colorado will help you meet tight deadlines with ease, over and over again.

Enjoy unmatched productivity, reducing labor costs and increasing your revenue.

▲ **ONLINE SWITCHING AND AUTOMATED MEDIA FEED**

Automatic media feed eliminates human error and speeds up your productivity. Switching media rolls does not require operator intervention, leaving your operators free to focus on business-relevant activities.

UNATTENDED PRINTING

No need to babysit

The Colorado series is developed with unattended printing and effortless job switching in mind. This way, your operators can concentrate on high-value tasks instead of watching printer output and manually assisting with media feeding and roll winding. Your operators will get more done in a day and be more satisfied in their work.

The Colorado doesn't just print unattended, it also comes with many sophisticated automatic quality control and maintenance features such as continuous nozzle monitoring and automated printhead maintenance.

Thanks to the Remote Control app, operators can receive alerts for upcoming events and monitor the printer status at any time: on their smartphone, smartwatch, or tablet, and even when running overnight jobs thanks to the Jumbo Roll Interface. The Remote Control app is your remote operator, enabling 24/7 production 365 days a year.

REMOTE CONTROL APP

- Check the printer status
- Get a notification when the job is ready

- Get alerts when immediate action action is needed (e.g. roll change is required)
- Set up your printer to run a scheduled number of jobs, from wherever you are

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IMPROVE YOUR BOTTOM LINE

Low cost of operation

When developing the Colorado series, we paid special attention to help you achieve your lowest operating costs through productivity gains and waste reduction. The robust Colorado family was designed to be real production printers.

An important part of this cost reduction comes from the UVgel technology at the Colorado's heart. This allows you to deliver more finished jobs from a single printer with its instant drying time and automatic workflow processes. In addition, UVgel technology consumes up to 40% less ink than other technologies—a marked difference in running costs. In energy costs, too, the Colorado has your back: LED UV curing is a low-temperature process with a much lower energy consumption compared to other ink technologies.

The real secret of the Colorado's savings, however, is the unique FLXfinish technology, for eye-catching glossy and luxurious matte finishes even on inexpensive media. With the Colorado, you can confidently do complex, high-margin jobs.

- Unique, next generation UVgel technology combines excellent quality, high productivity, and extensive versatility with low TCO in one single printer.
- Unprecedented productivity with fast output speed and instant drying that takes you straight to finishing.
- Consistently excellent color quality with precise, sharp dots, a wider color gamut, strong saturation for dark colors and accurate skin tones.
- Superb quality and exceptional application versatility plus low running costs.
- Easy to operate with support for the unattended and automatic delivery of finished output.
- Save on running costs thanks to reduced ink and energy requirements plus built-in printhead reliability and low maintenance that ensure maximum uptime.
- Choose either a flawless glossy or luxurious matte finish at the touch of a button.

WIDE APPLICATION RANGE

Support your creative vision

▲ **BACKLIT LIGHT BOX**

Powerful, high-density images thanks to UVgel technology.

▲ **FRAMED CANVAS**

Exceptional artistic freedom with flexible, robust UVgel inks.

▲ **FLOOR GRAPHICS**

Robust SAV prints with brilliant colors.

▲ **FLEET GRAPHICS**

Combine matte or glossy prints on matte or glossy SAV for increased design options. Robust prints even without lamination.

▲ **OUTDOOR ADVERTISING**

Unrivalled low running costs for price-sensitive outdoor banners and blueback applications.

▲ **WALLPAPER**

Robust, scratch-resistant wallpaper with excellent dimensional stability and color consistency thanks to UVgel technology.

▲ PHOTO POSTER

Razor-sharp photographic images thanks to a large color gamut.

▲ FRAMED SOFT-SIGNAGE RETAIL POSTER

Environmentally friendly products in style, as confirmed by GREENGUARD Gold.

SUSTAINABLE BY NATURE

Living and working together for the common good

For more and more businesses, reducing the environmental impact of their services is an important way to distinguish themselves. At Canon, we are firmly on board with that goal, and we develop and manufacture our products with sustainability in mind. This is in line with our philosophy of Kyosei—living and working together for the common good—and with the UN Global Compact we signed.

共生

Certified printed output and less ink consumption

UVgel technology is GREENGUARD Gold certified, which means you can trust that print products for indoor use meet strict chemical emission limits and so help contribute to healthier interiors.

UVgel technology is economical in use: compared to latex or eco-solvent inks, UVgel requires around 40% less ink to build up the same image quality and color intensity.

Lower emissions and energy consumption during operation

Colorado-family printers come equipped with internal filters and require no dedicated extraction, claiming no more than the required floorspace. Their noise emission levels have been tested and certified to be below stringent market standards. The energy-efficient, low-temperature LED curing process of the Colorado printers substantially reduces their energy consumption. And thanks to its instant-on printing capability, the energy consumption in standby mode is very low.

Canon manufacturing principles

Our manufacturing approach underscores our dedication to sustainability. Our UVgel ink production facility at Canon Production Printing in Venlo, the Netherlands, has been designed for maximum energy savings and longevity.

EXPAND YOUR HORIZONS

COLORADO 1630

> Add the unique, proven advantages of UVgel technology to your roll-to-roll offering with the modular Colorado 1630. This new addition in the Colorado series of products offers access to the proven benefits of UVgel technology at a lower investment level.

Benefit from the award-winning Colorado image quality and safely rely on its productivity and unsurpassed automation. Meanwhile, your wide application range will astound your customers and help you differentiate from your competitors.

- One printer, two models – Standard and Deluxe
- Upgrade your printer when your needs evolve, thanks to the 1630's modular concept
- All options can be enabled remotely and on demand, without the need for a service visit

Standard Model: Gloss finish, one roll position, PAINT (Piezo Acoustic Integrated Nozzle Technology), auto nozzle compensation, automatic maintenance, AAC (automatic advance correction), PrismaSync.

Deluxe Mode: includes all the features of the Standard Model, plus matte printing, double-sided printing, and second media roll. Upgrade your printer when your business grows.

The Colorado 1630 and the Colorado family offer all you need to successfully scale up and expand your business.

THE FLEXIBLE CHOICE

COLORADO 1650

> Are you all in on a large variety of roll-to-roll jobs on a wide range of media? Then the Colorado 1650 maximizes your UVgel advantage with its industrial-level productivity. The Colorado 1650 comes fully equipped to print an astonishing range of applications at high speeds.

The ingenious FLXfinish technology extends your application range to a whole new level: offering a choice between glossy or matte finish without the need to change inks or even media. The glossy finish boosts banners and posters to make them stand out, whereas the luxurious velvety-matte finish offers the perfect quality for interior applications such as wallcovering.

- All-round roll-to-roll production device that can easily handle peak volumes
- Fully equipped to explore new, innovative applications

With the Colorado 1650, you invest in outstanding application performance at industrial production capacity—and running costs that will boost your business profitability.
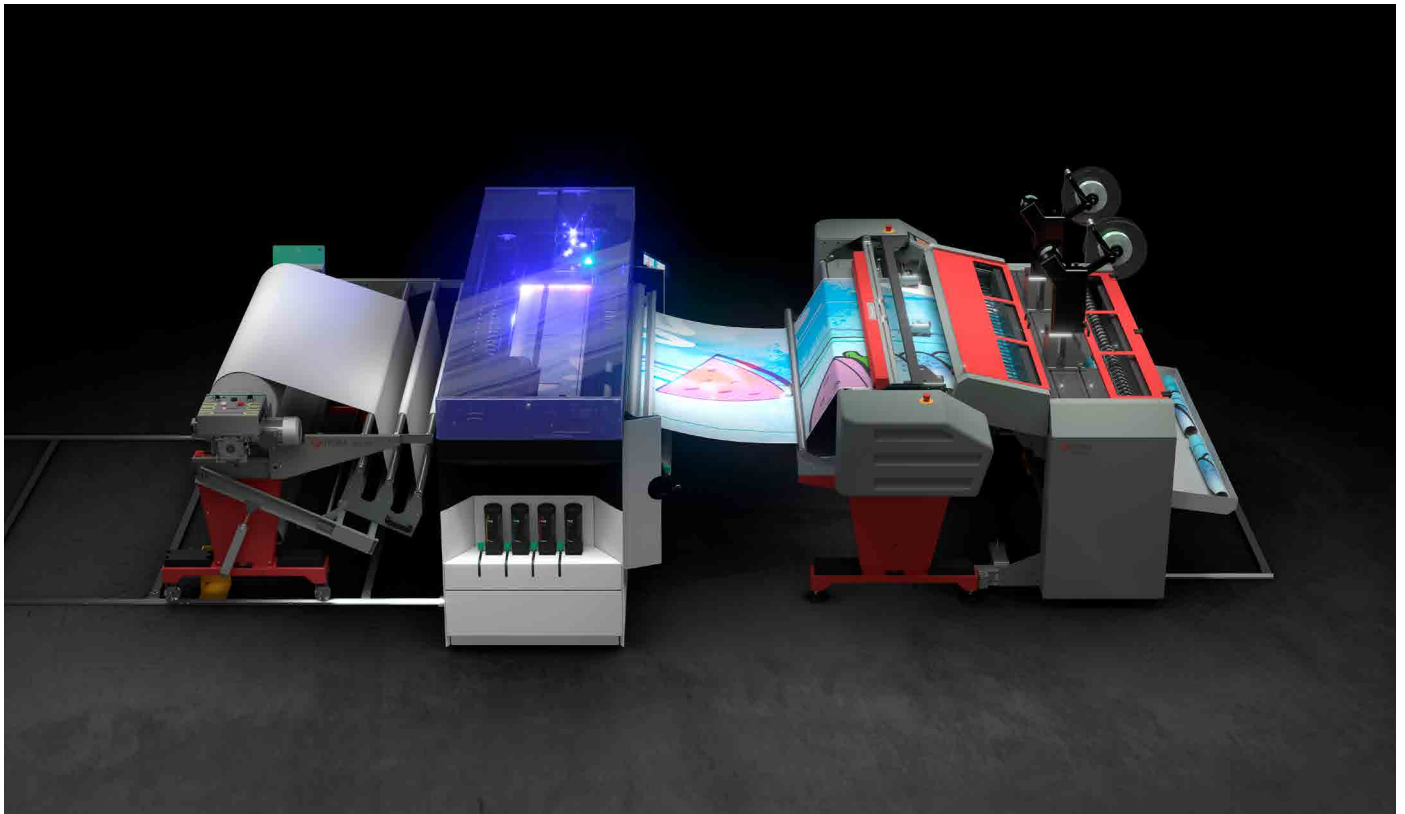
UVGEL WALLPAPER FACTORY

Digital done right

Even high-volume wallpaper production is now better off digital. The UVgel Wallpaper Factory is an end-to-end automated solution for high-volume production of wall décor applications: designed for maximum throughput at high quality and 24/7 run times.

No more issues with color consistency, dimensional stability, application robustness, or compliance. The UVgel Wallpaper Factory works with proven UVgel technology and unique workflow modules to offer a solution for the productivity losses and high operational costs associated with roll changes.

- Mass-customized automated wallpaper production
- UVgel is GREENGUARD GOLD certified
- A fully modular concept: jumbo roll, inline or nearline cutting, taping and finishing
- Fully automated: from bulk-sized media input straight to the finished rolled output with Fotoba roll feeder, cutter, and rewinder

Prints from the UVgel Wallpaper Factory have been certified for safe and indoor use evn the most in health-sensitive environments such as hospitals and schools.

LEARN MORE

What our customers say

"We were offered a large job, that had we not had the Colorado 1650 on board, we would never have been able to produce. Two or three other print shops in the marketplace turned it down. We were able to just burn it out real quickly and with fantastic quality…. Now we've just got a tremendous amount of confidence that we can basically take on any job."

– Eric Lazar, Owner, Speedpro Chicago Loop in Chicago, IL

"The Colorado printer has broadened our horizons in terms of new markets that we're able to reach through the device's ability to provide speed and quality on both indoor and outdoor displays."

– Greg Janowiak, Owner, Sign Works in Bensenville, IL

"When you can promise customers vibrant colors, indoor and outdoor durability, and mostly uninterrupted printing, you set yourself up for sustained success."

– Adam Carver, President, Pixelwerx in Plymouth, MN

"I saw that the promise of 430 square feet per hour was truly actionable… and it keeps itself in register…. What used to make up an entire production day's worth of volume is now being done by a pre-press operator who spends most of her time in the other room."

– Chuck Werninger, Senior Manager of Administrative Services for the Houston Independent School District in Houston, Texas

PROCARE SERVICE PROGRAMS

Available on the Canon Colorado Series of products.

Colorado owners can benefit from maximized uptime through access to spare parts and preventive maintenance for increased productivity and minimal downtime.

ProCare, ProCare+ and the post warranty Standard Maintenance Plan have no volume bands or overages—just one flat monthly maintenance price and unlimited square feet including discounts on printheads. These plans cover all service labor, travel, and parts. ProCare+ includes all the services of ProCare, adding the eligibility for one printhead replacement per year of term.

WHAT ARE YOUR OPTIONS?

Customized Service plans designed to fit every business need:

- ProCare+: Includes all service labor, travel, and parts, includes one print head per year.
- ProCare: Includes all service labor, travel, and parts, excluding print heads.
- Warranty with optional Standard Maintenance: covering all service labor, travel, and parts.

ProCare contracts are available for three, four, or five years, with the option to extend support after the initial contract has ended.

GRAPHIPLAZA

Large Format Graphics Community

graphiPLAZA is home to Canon Production Printing's Large Format Graphics user community. It keeps users informed of the latest market trends, inspires them with best practices around the world and allows them to discover new applications. You can also search an extensive database of manufacturer-independent media profiles that are compatible with the Colorado roll-to-roll printer family. User documentation, technical documentation and firmware and software upgrades are available in a few mouse clicks. Would you like to discuss with peers a variety of topics? Join the interactive graphiPLAZA forum.

Unlock new possibilities with Canon

Canon is a world leader in professional imaging. We are ranked 14th in the 2020 list of The World's Most Reputable Companies put out by the Reputation Institute, a continuation of our decade of top-tier rankings. Canon Production Printing has over a century of experience in printing and is one of the main innovation centers of Canon. Our aim is to create a global network of expertise for visual communication and industrial printing.

Imagine what's next, guided by you

We learn first-hand from the people who are changing the world we live in. Supported by your feedback, we work with our partners to develop next-generation technologies and products. Can you dare to imagine what you're going to do next? Let's do it together!

Together, we are shaping tomorrow

At Canon we believe in the power of the visual world. We share a passion for printing and are dedicated to making sure you stand out.

TOGETHER, WE CAN SHAPE TOMORROW: EXPERTS WORKING WITH EXPERTS, ACCELERATING INNOVATION.

graphiPLAZA is an online community for Large Format Graphics printers. Come join us!

Scan the QR code to learn more.

graphiPLAZA

Advanced, self-aware piezoelectric printhead technology

Easy-to-use touchpad interface

COLORADO 1650 TECHNICAL SPECIFICATIONS

PRINTING	
Printing method	Canon UVgel piezoelectric inkjet
Gloss printing modes	1,709 ft.^{2}/hr. - Max speed 1,229 ft.^{2}/hr. - High speed 861 ft.^{2}/hr. - Speed 610 ft.^{2}/hr. - Production 427 ft.^{2}/hr. - High quality 290 ft.^{2}/hr. - Superior 222 ft.^{2}/hr. - Specialty
Matte printing modes	495 ft.^{2}/hr. - High speed 409 ft.^{2}/hr. - Speed 333 ft.^{2}/hr. - Production 290 ft.^{2}/hr. - Quality 215 ft.^{2}/hr. - Specialty 215 ft.^{2}/hr. - Backlit 107 ft.^{2}/hr. - Backlit Density
Print resolution	Up to 1,800 dpi
Ink types	Canon UVgel 460 ink, CMYK (1-liter bottles)
Ink packaging	2 x 1-liter ink bottle Ink reservoir can accommodate up to 2.5 liters per ink color
Printheads	Change to Canon UVgel printheads (8)
Automatic maintenance	PAINT constantly monitors and compensates for nozzle failures that can occur during printing Automatic maintenance performed in seconds, daily Refill ink while printing
Curing	UV LED with FLXfinish, instant dry, low temperature

MEDIA	
Roll width	Up to 64" (1,625 mm)
Print margin	0.21" (5.3 mm)[1]
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)

MEDIA

Media input	2 rolls in PSO mode / 1 roll in PSI mode Automatic roll feeding and switching
Input roll feeding	Compatible with rolls that are PSO or PSI Double-sided printing, leading edge support for flexible media
Media take-up system	Both loose and tight winding possible

TECHNOLOGIES

Canon UVgel technology	Instant pinning and dot gain control Low-temperature curing, suitable for thin and heat-sensitive media High-precision color matching and consistency Instantly dry
Canon FLXfinish technology	Gives you the choice between gloss or matte output on both smooth and structured media Enables you to print on porous and uncoated materials

CERTIFICATIONS

Environmental and safe use	Indoor AgBB GREENGUARD GOLD CE EN 15102 (decorative wall coverings) ASTM F793 Type II M1 B-s1d0 Émissions dans l'air intérieur A+
Media	Avery Dennison ICS Warranty 3M Performance Guarantee MACTAC Performance Guarantee

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)

SOFTWARE

Supported RIPs	ONYX Graphics, Caldera, EFI, PrintFactory, ColorGATE, ErgoSoft, Shiraz, AGFA
API	Colorado API for third-party vendors

COLORADO 1630 TECHNICAL SPECIFICATIONS

PRINTING	
Printing method	Canon UVgel piezoelectric inkjet
Gloss printing modes	1,195 ft²/hr. - Max speed 592 ft²/hr. - High speed 603 ft²/hr. - Speed 420 ft²/hr. - Production 205 ft²/hr. - High quality 215 ft²/hr. - Specialty
Matte printing modes²	388 ft²/hr. - High Speed 291 ft²/hr. - Speed 237 ft²/hr. - Production 194 ft²/hr. - Quality 140 ft²/hr. - Specialty 194 ft²/hr. - Backlit 108 ft²/hr. - Backlit Density
Print resolution	Up to 1,800 dpi
Ink types	Canon UVgel 460 ink CMYK (0.7- liter bottles)
Ink packaging	1 x 0.7 liter ink bottle Ink reservoir can accommodate up to 1.8 liter per ink color Refill while printing
Printheads	Canon UVgel 415 printheads
Automatic maintenance	PAINT constantly monitors and compensates for nozzle failures that can occur during printing Automatic maintenance performed in seconds, daily Refill ink while printing Curing UV LED with FLXfinish, instant dry, low temperature
Curing	UV LED with instant dry, low temperature with option for FLXfinish

MEDIA	
Roll width	Up to 64" (1,625 mm)
Print margin	0.21" (5.3 mm)[1]
Roll weight	Up to 110 lbs (50 kg)
Roll diameter	Up to 8.7" (220 mm)
Media thickness	Up to 0.03" (0.8 mm)

MEDIA	
Media input	Print side out Automatic and manual feed Print side in** Double-sided printing² Automatic roll feeding and switching
Number of input rolls	1 or 2² (automatic roll-feeding and -switching depending on media used)
Media take-up system	Both loose and tight winding possible

TECHNOLOGIES	
Canon UVgel technology	UVgel technology – instant pinning and dot gain control Low temperature curing – suitable for thin and heatsensitive media Outstanding scratch resistance Easy lamination, smooth ink film High precision color-matching and consistency Odorless and instant dry printout
Canon FLXfinish technology	Enables matte print modes for vibrant matte and gloss Prints on smooth and porous/structured media²

CERTIFICATIONS	
Environmental and safe use	Indoor AgBB GREENGUARD GOLD CE EN 15102 (decorative wall coverings) ASTM F793 Type II M1 B-s1d0 Émissions dans l'air intérieur A+
Media	Avery Dennison ICS Warranty 3M Performance Guarantee MACTAC Performance Guarantee

SIZE AND WEIGHT	
Printer dimensions (W x D x H)	119" x 43" x 52"
Printer weight	1,653 lbs

SOFTWARE	
Supported RIPs	ONYX Graphics, Caldera, EFI, PrintFactory, ColorGATE, ErgoSoft, Shiraz, AGFA
API	Colorado API for third-party vendors

¹ *Margin 0.43" when Media Step Control is enabled (recommended for print modes up to 430 ft.²/hr. for optimized output quality)*
² *Optional module.*
Specifications subject to change without notice.