

Canon

PRODUCTION PRINTING

THE UVGEL ADVANTAGE

**Meet the
Colorado Family**



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 sharp price and immediate turnaround.

With the Colorado series and Canon's pro-ven UVgel technology, you will no longer have to say 'no' or outsource lucrative jobs. Reinforce your reputation as 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 kind of media. Best of all, the Colorado printers are developed to fit neatly into your

workflow, to give you ease and control and to help you bring down 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 pro-ven itself as the new standard in digital largeformat 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

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?

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
- Print matte, gloss, or mixed matte and gloss in one go

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

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



▲ FLXfinish+ ONE CLICK, TWO FINISHES, ONE PRINT

With just one click, you can mix matte and gloss parts in one print



▲ REFILL INKS WHILE PRINTING

A large 2.5 litre reservoir allows operators to refill ink while printing, at their own convenience



▲ ONLINE SWITCHING AND AUTO-MATED 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

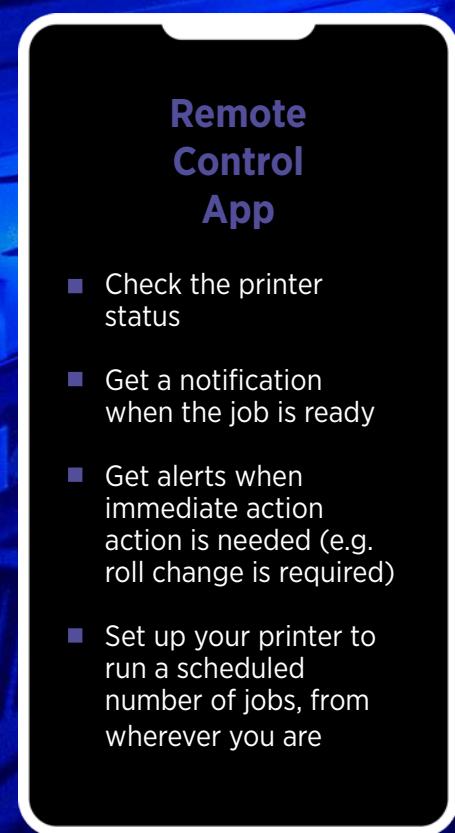
No need to babysit

The Colorado 1600 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 PRISMA remote 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 PRISMA remote 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



When developing the Colorado series, we paid special attention to help you achieve the 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, that allows you to choose between either a matte, a gloss or a mixed matte and gloss finish, without the need to change inks or the media or having an extra varnish channel even on inexpensive media. With the Colorado, you can confidently do complex, high-margin jobs.

Low cost of operation

**IMPROVE
YOUR
BOTTOM
LINE**



WALLPAPER

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

WIDE APPLICATION RANGE

Your creativity is the only limitation

FLEET GRAPHICS

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





FRAMED CANVAS

Exceptional artistic freedom with flexible, robust UVgel inks



▲ OUTDOOR ADVERTISING

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



▲ BACKLIT LIGHT BOX

Powerful, high-density images thanks to UVgel technology



▲ PHOTO POSTER

Razor-sharp photographic images thanks to a large colour gamut



▲ FRAMED SOFT-SIGNAGE RETAIL POSTER

Environmentally friendly products in style, 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.

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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 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 colour 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 radiation and noise emission are below stringent 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 brand-new UVgel ink production facility at Canon Production Printing in Venlo, the Netherlands, has been designed for maximum energy savings and longevity.



Expand your horizons

The flexible choice

COLORADO 1630

COLORADO 1650

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.

- Choose your options: matte printing, or mixed matte and gloss in one go; double-sided printing and/or second media roll
- 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

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



The ingenious FLXfinish+ technology extends your application range to a whole new level: offering a choice between matte, gloss or mixed matte and gloss applications with perfect registration, easy to operate: One Click. Two Finishes. One Print. 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.



PRINTING			
Printing method	UVgel piezoelectric inkjet		
Printing modes and speeds	GLOSS 1,159 ft ² /hr - Max speed 840 ft ² /hr - High speed 603 ft ² /hr - Speed 420 ft ² /hr - Production 312 ft ² /hr - High quality 215 ft ² /hr - Specialty	MATTE: ** 388 ft ² /hr - High Speed 291 ft ² /hr - Speed 237 ft ² /hr - Production 194 ft ² /hr - Quality 194 ft ² /hr - Backlit 140 ft ² /hr - Specialty 108 ft ² /hr - Backlit Density	MIXED MATTE AND GLOSS: ** 75 ft ² /hr - FLXfinish+
Print resolution	Up to 1,800 dpi		
Ink types	Canon UVgel 460 ink, CMYK		
Ink packaging	1 x 0.7 litre ink bottle - Ink reservoir can accommodate up to 1.8 litre per ink colour - Refill while printing		
Printheads	UVgel 425 printheads - High frequency drop-on-demand piezo-electric printhead		
Automatic maintenance	PAINT (Piezo Acoustic Integrated Nozzle Technology) constantly monitors and compensates for nozzle failures that can occur during printing - Eliminate daily manual maintenance tasks to save operator time		
Curing	UV LED		
MEDIA			
Roll width	Up to 64"		
Print margin	0.21" *		
Roll weight	Weight: Up to 110 lbs Roll Diamter: Up to 8.7" Media thickness: Up to 0.03" (31.5 mil)		
Media input	Print side out - Automatic and manual feed - Print side in ** - Double sided printing **		
Number of input rolls	1 or 2 ** (automatic roll-feeding and -switching depending on media used)		
Media take-up system	Both loose and tight winding possible		
TECHNOLOGY			
UVGEL TECHNOLOGY	UVgel technology - instant pinning and dot gain control Low temperature curing - suitable for thin and heat-sensitive media Outstanding scratch resistance Easy lamination, smooth ink film High precision colour-matching and consistency Odourless and instant dry printout		
FLXFINISH+ **	Choose the right finish for your applications: velvety matte, vibrant gloss, or both combined in one print		
SIZE AND WEIGHT			
Printer W x D x H	119 x 43 x 52"		
Printer Weight	1,653 lbs		
WORKING ENVIRONMENT			
Operation printer	64 - 86°F (recommended 68 - 81°F) 20 - 80% RH (no condensation) (recommended 30 - 60%)		
Power Consumption	0 W - Off 250 W - Standby 1.6 kW - Ready 2.3 kW - Printing		
Power Source	2 inputs, each 200-240V +/- 10%, 50/60 Hz, 16/6 A.		
CERTIFICATION			
Environmental and safe use	Indoor AgBB M1	GREENGUARD GOLD B-S1d0	CE EN 15102 (decorative wall coverings) Émissions dans l'air intérieur A+ ASTM F793 Type II
Media	Avery Dennison ICS Warranty 3M Performance Guarantee		
REGULATORY CERTIFICATIONS			
Declaration of conformity	Printer is declared under Radio Equipment Directive (RED)- 2014/53/EU		
Radio	Compliant with EN62479, EN301 489-1, EN301 489-3, EN300-330 FCC Part 15 and RSS-210 certified (module)		
Safety	IEC/EN/UL/CSA 62368-1 compliant Applicable marks: CE, TÜV-GS, C-UL-US, RCM		
EMC	Emission: Class A compliant according CISPR 32, FCC part 15 and ICES-003 Immunity: CISPR 24 compliant Applicable marks: CE, FCC, IC, VCCI, RCM, CETECOM		
Environmental	WEEE, RoHS directive 2011/65/EU, REACH, CE		
SOFTWARE			
Supported RIPs	ONYX Graphics, Caldera, EFI, PrintFactory, ColorGATE, ErgoSoft, Shiraz, AGFA		
API	Colorado API for 3rd party vendors		

PRINTING			
Printing method	UVgel piezoelectric inkjet		
Printing modes and speeds	GLOSS Max speed: 1,709 ft. ² /hr. (159 m ² /hr.) High speed: 1,229 ft. ² /hr. (114 m ² /hr.) Speed: 861 ft. ² /hr. (80 m ² /hr.) Production: 610 ft. ² /hr. (57 m ² /hr.) High quality: 427 ft. ² /hr. (40 m ² /hr.) Superior: 290 ft. ² /hr. (27 m ² /hr.) Specialty: 222 ft. ² /hr. (21 m ² /hr.)	MATTE: High speed: 495 ft. ² /hr. (46 m ² /hr.) Speed: 409 ft. ² /hr. (38 m ² /hr.) Production: 333 ft. ² /hr. (31 m ² /hr.) Quality: 290 ft. ² /hr. (27 m ² /hr.) Specialty: 215 ft. ² /hr. (20 m ² /hr.) Backlit: 215 ft. ² /hr. (20 m ² /hr.) Backlit density: 107 ft. ² /hr. (10 m ² /hr.)	MIXED MATTE AND GLOSS: 75 ft ² /hr - FLXfinish+
Print resolution	Up to 1,800 dpi		
Ink types	Canon UVgel 460 ink, CMYK		
Ink packaging	2 x 1-litre ink bottle Ink reservoir can accommodate up to 2.5 litres per ink colour		
Printheads	UVgel 415 printheads (two per colour)		
Automatic maintenance	PAINT (Piezo Acoustic Integrated Nozzle Technology) constantly monitors and compensates for nozzle failures that can occur during printing - Eliminate daily manual maintenance tasks to save operator time - Refill ink while printing		
Curing	UV LED		
MEDIA			
Roll width	Up to 64"		
Print margin	0.21" *		
Roll weight	Weight: Up to 110 lbs Roll Diameter: Up to 8.7" Media thickness: Up to 0.03" (31.5 mil)		
Media input	Print side out - Automatic and manual feed - Print side in - Double sided printing		
Number of input rolls	2 rolls in PSO mode / 1 roll in PSI mode - Automatic roll feeding and switching		
Media take-up system	Compatible with rolls that are PSO or PSI Double-sided printing, leading edge support for flexible media		
TECHNOLOGY			
UVGEL TECHNOLOGY	instant pinning and dot gain control Low temperature curing - suitable for thin and heat-sensitive media Outstanding scratch resistance Easy lamination, smooth ink film High precision colour-matching and consistency Odourless and instant dry printout		
FLXFINISH+	Choose the right finish for your applications: velvety matte, vibrant gloss, or both combined in one print		
SIZE AND WEIGHT			
Printer 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 (recommended 68 - 81°F) 20 - 80% RH (no condensation) (recommended 30 - 60%)		
Power Consumption	0 W - Off 250 W - Standby 1.6 kW - Ready 2.3 kW - Printing		
Power Source	2 inputs, each 200-240V +/- 10%, 50/60 Hz, 16/6 A.		
CERTIFICATION			
Environmental and safe use	Indoor AgBB M1	GREENGUARD GOLD B-s1d0	CE EN 15102 (decorative wall coverings) Émissions dans l'air intérieur A+ ASTM F793 Type II
Media	Avery Dennison ICS Warranty 3M Performance Guarantee		
REGULATORY CERTIFICATIONS			
Declaration of conformity	Printer is declared under Radio Equipment Directive (RED)- 2014/53/EU		
Radio	Compliant with EN62479, EN301 489-1, EN301 489-3, EN300-330 FCC Part 15 and RSS-210 certified (module)		
Safety	IEC/EN/UL/CSA 62368-1 compliant Applicable marks: CE, TÜV-GS, C-UL-US, RCM		
EMC	Emission: Class A compliant according CISPR 32, FCC part 15 and ICES-003 Immunity: CISPR 24 compliant Applicable marks: CE, FCC, IC, VCCI, RCM, CETECOM		
Environmental	WEEE, RoHS directive 2011/65/EU, REACH, CE		
SOFTWARE			
Supported RIPs	ONYX® Thrive™, Caldera, and API for third-party RIP vendors		
API	Colorado API for 3rd party vendors		

Canon

THE COLORADO FAMILY



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