



# THE COLORADO SERIES

The gel advantage

Canon



Canon

# DISCOVER A NEW WORLD

For a very long time, premium printing in the graphic arts was about metrics - wider colour gamuts and higher resolutions. Today, those metrics are simply the minimum requirement. True premium printing is all about creating a rich experience. Mirror-smooth gloss, deep velvet matte. Creative concepts that are not just eye-catching but cinematic, with entire rooms, from floor graphics to ceiling banners, breathing the same atmosphere.

Bewitch the senses -  
by Colorado.

For some customers, only the highest artistry is good enough. And they are willing to pay for it. With your Colorado series printer, you can give them what they need while improving your bottom line. Rely on instant-dry prints on a wide range of materials thanks to market-proven UVgel technology, next-level automation and breakthrough productivity. Always meet challenging customer requests with 'yes, of course'.

Enjoy new business horizons -  
by Colorado.

## The Colorado series

The Colorado series are 64" roll-to-roll printers powered by the patented UVgel technology. Produce scratch-resistant, odourless prints that require no drying time and enjoy the rich, colourful, razor-sharp images and impressive application range that are the hallmarks of the gel advantage.

The Colorado 1640 and 1650 printers are designed with your business needs in mind, with print speeds that help you smoothly manage peak periods, improved profitability thanks to reduced ink usage and premium print quality on even the most basic media.

Unprecedented levels of automation reduce the overhead from routine tasks like media loading and daily maintenance and free up your operators to focus on what really matters.

- Breakthrough productivity to meet today's short turnaround times with ease
- Never-seen-before automation for non-stop printing without babysitting
- Lowest cost of operation for improved profitability
- Wide application range for ultimate design freedom
- Robust industrial design for reliable production.



# COLORADO

## 1640

### Rock solid productivity

The Colorado 1640 has all the benefits of the Colorado platform: speed, easy operation, cost efficiency and premium quality. This market-proven printer has already helped many customers deliver truly impressive images with unbeatable durability, thanks to UVgel 356 inks. In addition, it is your choice of printer if you regularly produce prints that need to exceed the rigors of heavy use day after day, resisting scratches, water, cleaning agents and even graffiti. Do you often use machine coated paper for printing your jobs? Considering digital packaging with litho-lamination display production? Or printing floor graphics for high-wear environments such as stadiums, bike lanes or skate ramps? The 1640 has got you covered.



# COLORADO

## 1650



### The flexible choice

The Colorado 1650 offers a truly impressive application range, thanks to two additional technologies: the more flexible and stretchable formulation of the UVgel 460 inks and the ingenious FLXfinish. The UVgel 460 inks provide perfect image stability even when prints are folded, bent or wrapped. And with the FLXfinish technology, you can print your applications both with a flawless glossy and a luxurious matte finish, independent of media finish, doubling the range of your artistic freedom. Think of designer wallpaper, stunning decals, luxurious soft signage and front- and backlights with the deepest black that make people stop and take notice.



# GAME-CHANGING TECHNOLOGIES

The Colorado series is built from the ground up to provide freedom. The freedom from daily maintenance through unprecedented automation. The freedom to fully embrace your creativity. The freedom to give your customers whatever they need, through a wide application range, impressive quality and a low cost of ownership that opens up new business opportunities.



## The gel advantage

### UVgel technology

UVgel technology is at the heart of the Colorado series, a unique print-then-cure process using UVgel inks and UV LED curing. These inks form an ultra-thin, extremely durable layer on top of the media, even on porous media that absorbs other inks. The result:

- An excellent colour gamut, colour depth and light fastness
- Certified low-odour prints, important for indoor usage
- No drying time, so no waiting before finishing
- High printing speeds up to 159 m<sup>2</sup> per hour for maximum productivity
- Low-temperature, low-energy UV LED curing, enabling usage of heat sensitive media
- Robust prints on a wide range of media

Then there is the true gel advantage. Because the gel droplets remain stable on the media with hardly any dot gain, it is possible to deposit more ink in fewer passes. The result: razor sharp details, a wide gamut and full-speed-ahead productivity.

The UVgel ink provides a durable, scratch-resistant layer that needs no further protection. For the application range of the Colorado 1650, the UVgel 460 inks are developed to offer elasticity and flexibility. This provides an even better performance when prints need to be folded, creased, wrapped or stretched onto a frame. The Colorado 1640 is equipped with the UVgel 356 inks that offer extreme durability. It is ideal for applications such as floor decals in high-traffic areas, when your print has to stand up to thousands of scuffing feet.

## The finishing touch

### FLXfinish technology

Your applications will only truly be seen for what they are if they have the right finish. Premium wallpaper looks more luxurious with a lovely deep-matte finish. Photos reveal their true colour depth and emotional impact with smooth, mirror-like gloss. With FLXfinish technology, you can give any of your applications a gloss or matte finish without the need to use special inks or media.

The glossy finish is already known as the statement look made possible by UVgel technology. The matte option offers a brilliant new range of applications: even on porous media such as uncoated plain paper, the gel

inks stay on top. As a result, the Colorado 1650 can print rich matte prints that offer an unusually rich gamut, while maintaining crisp details. Smart use of the Colorado 1650's UV LED curing lights provides the basis for this flexibility. Full curing happens at the end of the printing process, but the stage is set for the finishing touch just after jetting the UVgel inks. For applications with a matte finish or porous media, a brief flash of UV light pins the UVgel droplets in place immediately after jetting, freezing the shape of every drop of ink. This results in a rough surface at micro level, providing the matte look and a velvety-like touch. For a glossy finish, the droplets are given a little more time to settle into a smooth, even layer.



## Odourless & safe

Indoor applications of large format prints, i.e. wall coverings, require the prints to be odourless and chemical emission free. UVgel technology has been developed to be odourless

so it can be used for high value indoor applications. Even in health sensitive environments, as our full GREENGUARD Gold, AgBB and Type II environmental certificates prove.



# HIGHLIGHTS



**FLXfinish - matte or gloss without changing ink or media.**  
An ingenious curing strategy results in two distinct finishes: shiny gloss or velvety matte.



**Reduced ink usage**  
UVgel inks form a thin layer on top of the media. Less ink is needed to produce vibrant colours, compared to traditional inkjet technology.



**UV curing**  
Instant dry prints with UV LED lights.



**Refill inks while printing**  
Large 1 litre ink bottles and a 2.5 litre ink reservoir allow operators to refill ink while printing, at a time that is convenient for them.



**PAINT nozzle monitoring**  
The nozzles are continuously monitored with Piezo Acoustic Integrated Nozzle Technology (PAINT) and corrected if needed. Maximum confidence for unattended printing.



**Double-sided printing**  
Make double-sided prints easily and without hassle, for example for large outdoor banners that are visible from both sides.



**Roll winding module**  
The automated roll winder module increases the ease of use of roll-to-roll systems and reduces errors.



**Two media rolls with 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.



**Print on both sides of the roll**  
Print at the inside or outside of the roll for maximum media flexibility and specific customer requirements.



# INSPIRING YOUR CREATIVITY

What would you do with a machine that supports your creative freedom like the Colorado series? Let your imagination run wild with these examples.



Designer wall covering



Vehicle graphics



Fine-art canvas



Window graphics

## Deep matte designer wall covering...

The highest quality wall covering has a deep matte finish and perfect dimensional stability. With FLXfinish, you can achieve a velvety matte look for a luxurious finish.

## Glossy-smooth photo wallpaper...

Photo wallpaper, on the other hand, looks best with a high-gloss finish that makes the colours pop. Give your customers realistic photo images to dream away with.

## Perfectly stretched canvas frames...

Produce gallery-quality canvas prints with eye-catching quality and perfect sharp edges, thanks to the elasticity of the Colorado 1650's UVgel inks.

## Window graphics...

Print on perforated film to create stunning glass & vehicle windows decoration, easy to produce and quick to install and remove.

## Vehicle graphics...

Thanks to the flexible UVgel ink formulation, offer graphics for advertising on cars, vans or buses which is easy to install and easy to remove, while withstanding daily wear in outside conditions and car wash treatments.



Point of sales



Decals + Floor graphics



Outdoor banners

## Eye-catching backlights...

Stop passers-by in their tracks with vibrant front- or backlit displays. The UVgel technology offers rich colours, an elegant matte look and great blocking power: black is truly black.

## Stunning poster quality...

Increase your margins with premium posters printed on plain paper. With UVgel inks and FLXfinish, the final quality is so good that customers cannot even see the difference.

## Gorgeous soft signage...

Soft signage is a premium product that requires the perfect look without special treatment. With the Colorado 1650 UVgel inks, your products stand out with rich, uniform colours, dense blacks. Prints can be stretched and folded without any problem.

## Blueback printing...

Catch the eye of your target audience with high colour gamut advertising, produced economically on your Colorado.

## Eye-catching point of sales...

Catch your audience's eye with high quality advertising, produced on low-cost media and safe for indoor use thanks to no odour and no chemical emissions.

## Decals that stay like new...

Produce scratch-, water- and even graffiti-resistant decals up to 1.6 meter wide that stand up to serious abuse without lamination. Perfect for floor graphics, wall decals and vehicle graphics that are carwash proof.

## Huge, durable banners...

Make your banners stand out with the right finish. Glossy for impressive photos or matte for clearly readable text, even outdoors. Excellent quality, scratchproof and above all economical.

## Pop-up banners...

Flexible film and roll-up banners that strike with vibrant colours, scratch resistant and produced on low cost media.



Backlights



Posters



Soft signage



Blueback printing

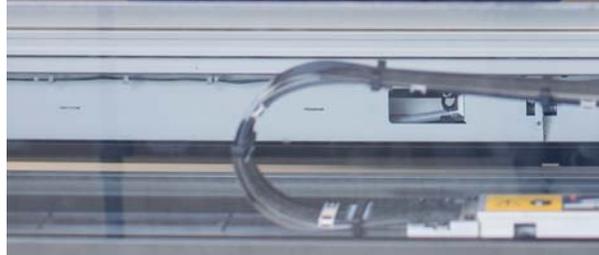
...BY COLORADO

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“The capabilities of the new UVgel technology and gel inks are certainly going to open up further business opportunities for us.”

Daniel van Vliet - Van Vliet (NL)

”



“

“The Colorado 1640 is a very efficient machine, with a four times higher output. What used to take us half an hour now takes us just a few minutes”

Bartosz Swiderski - Studio Bell (PL)

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“What amazed us most in terms of productivity is that we can produce up to 40 m<sup>2</sup> an hour at high quality.”

Julia Nostitz - Posterlaunch (DE)

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“

“The market wants us to be faster, cheaper and better. And we always bumped upon limits, until we discovered the Colorado.”

Michael Hiemann - Siepro (DE)

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# COLORADO 1640

## Printing

Printing method	UVgel piezoelectric inkjet
Print resolution	Up to 1800 dpi
Printheads	UVgel 415 piezoelectric printheads (2 per colour)
Maintenance	PAINT constantly monitors and compensates for nozzle failures while printing Automatic maintenance performed daily in seconds Refill ink while printing

## Curing

Curing method	UV LED, instant dry, low temperature
Printing modes	20 - 159 m <sup>2</sup> /hr
Ink types	UVgel 356 ink, CMYK (1 litre bottles)

## Media

Roll width	Up to 1625 mm
Roll weight	2 x up to 50 kg
Roll diameter	Up to 220 mm
Media thickness	Up to 0.8 mm
Print margin	5.3 mm / 11.0 mm when Media Step Control is enabled*
Number of input rolls	2 rolls with automatic roll-feeding and -switching**
Input roll feeding	Print inside or outside Double sided printing, leading edge support for flexible media

## Technologies

UVgel technology	Instant pinning and dot gain control Low-temperature curing, suitable for thin and heat-sensitive media High-precision colour-matching and consistency Instant-dry printout
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## Other

Dimensions W x D x H	3022 x 1093 x 1310 mm
Weight	740 kg

## Software

Supported RIPs	ONYX® Graphics, Caldera and API for third-party RIP vendors
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\* Recommended for print modes up to 40 m<sup>2</sup>/hr for optimised output quality

\*\* Dependent on media used

# COLORADO 1650

## Printing

Printing method	UVgel piezoelectric inkjet
Print resolution	Up to 1800 dpi
Printheads	UVgel 415 piezoelectric printheads (2 per colour)
Maintenance	PAINT constantly monitors and compensates for nozzle failures while printing Automatic maintenance performed daily in seconds Refill ink while printing

## Curing

Curing method	UV LED with FLXfinish, instant dry, low temperature
Printing modes	Printing modes gloss: 20-159 m <sup>2</sup> /hr Printing modes matte: 14-46 m <sup>2</sup> /hr
Ink types	UVgel 460 ink, CMYK (1 litre bottles)

## Media

Roll width	Up to 1625 mm
Roll weight	Up to 50 kg
Roll diameter	2 x up to 220 mm
Media thickness	Up to 0.8 mm
Print margin	5.3 mm / 11.0 mm when Media Step Control is enabled*
Number of input rolls	2 rolls with automatic roll-feeding and -switching**
Input roll feeding	Print inside or outside Double sided printing, leading edge support for flexible media

## Technologies

UVgel technology	Instant pinning and dot gain control Low-temperature curing, suitable for thin and heat-sensitive media High-precision colour-matching and consistency Instant-dry printout
FLXfinish	Enables matte print modes for vibrant matte prints on smooth or porous/structured media

## Other

Dimensions W x D x H	3022 x 1093 x 1310 mm
Weight	740 kg

## Software

Supported RIPs	ONYX® Graphics, Caldera and API for third-party RIP vendors
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\* Recommended for print modes up to 40 m<sup>2</sup>/hr for optimised output quality

\*\* Dependent on media used





reddot design award  
winner 2017



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