![Color Kinetics logo] **COLORKINETICS**

Luminous Textile

Bring spaces to life

Play with light, texture and dynamic content

Laurèl, Munich Germany

Imagine creating a breathtaking interior with the power to attract and engage, surprise and delight, uplift and inspire. A space that blends light, texture and dynamic content in one ambient experience. One that is so flexible, you can change it to reflect every mood and moment.

That is the beauty of Luminous Textile. It combines multi-colored LEDs seamlessly within beautiful textile panels that also soften sound. A solution that gives you endless ways to play with color, movement, texture and light. So you can express emotions, make a design statement and bring spaces to life.

Inspire your creativity

Luminous Textile is a revolutionary way to enhance interiors with light, texture and dynamic content. A combination of multi-colored LEDs within textile panels that gives you the ultimate creative freedom. You can choose the size and number of panels as well as how you arrange them. Then there is an array of white and colored Kvadrat textiles with different weaves to choose from.

Design freedom

A unique solution, Luminous Textile panels are completely integrated, making them very easy to install. They come in a wide range of sizes and can be arranged in infinite ways so you can orchestrate your own composition. Create one huge mood wall as a sensational backdrop. Follow the rise of a staircase with staggered panels. Or scatter individual panels over a wall and display fluid content across them. Anything is possible.

Play with dynamic content

Use videos from our online standard portfolio to add decorative effects or produce natural ambiences. Or upload your own video (dynamic video content) with our special software to create a personal look and feel. It is easy to control Luminous Textile with any device that is connected to the panel network, such as a mobile phone, laptop or tablet. So you can change the atmosphere in a room at the touch of a button.

Kvadrat textiles

The panels are finished with beautiful Kvadrat textiles (fire rated). The Kvadrat Soft Cells patented tensioning system keeps the textile under constant tension within an aluminum frame. With a choice of rich colors, high quality textiles and beautiful textures, the panels are designed to look stunning in their own right. Switching the dynamic video content on adds an extra element of surprise that never fails to delight.

Soften sounds

The combination of elements used in each Luminous Textile panel creates acoustic properties that absorb sounds. Unlike hard materials like glass, concrete and steel that amplify noise, Luminous Textile helps to dampen sound and soften echoes. So it can play a practical as well as a decorative role everywhere from office reception areas and restaurants to hospitals and airport lounges.

Explore the possibilities

Luminous Textile is not intended for information or sales messages. Rather than overloading the senses, it creates soft atmospheres and ambiences. The combination of soft, diffused light and the aesthetics of the material creates a very special effect that has an almost dreamlike quality. With design freedom and fully customizable content, it makes the possibilities for mood creation endless. How will it light your creativity?

ISS University, Søborg Denmark

Inspiration everywhere

Every space demands its own meaningful solution. Luminous Textile helps you achieve your boldest visions and capture the essence of a space in a totally unique way.

Nordsjællands Hospital, Hillerod Denmark

Magical retail

The longer people linger in store, the more they're likely to buy. Luminous Textile creates magical effects everywhere from the front window to the fitting room. Creating stopping power, attracting glances, enhancing the personality of a brand, reinforcing its identity and guiding shoppers effortlessly through the store.

It is also a welcome distraction, reducing the perception of waiting times in the fitting room or at the store checkout. Enhancing the shopping experience even further.

Corio, Dresden Germany

Beluga, Maastricht The Netherlands

Enchanting hospitality

Create an enchanting experience that will enhance hotels, bars and restaurants. Help hotel guests to wake up naturally by showing a beautiful sunrise in the breakfast room. Transform a restaurant into an alfresco dining experience with a stunning outdoor scene. Or turn up the pace in bars and clubs with cool and colorful disco content. With Luminous Textile you can even take conference rooms from boring to inspirational.

Inspirational offices

Modern offices can feel cold and impersonal. Luminous Textile is the perfect way to emphasize the personality of your company. It adds the warmth and inspiration that stimulates creativity, improves productivity and energizes office life. With softened sound to improve concentration and promote well being. So business is a pleasure.

200 Gray's Inn Road, London UK

Soothing healthcare

Hospital visits make people feel anxious. De-stress waiting areas and create a positive distraction with soothing, dynamic video content. Patients can relax, staff feel energized and treatment goes more smoothly. Luminous Textile makes everyone feel better about a stay in hospital.

Power supply requirements for 24 V version

The power supplies must meet the following requirements:

External power supply characteristics

Power supply type	Type I: 24 Vdc double isolated output (SELV equivalent)
Required protections	Short circuit protection (over temperature protection)
Compliancy	Local safety and EMC regulations
DC output voltage (Vo)*	24 ±1 V (for full output load range)
Max. DC output power (Po)*	288 W
Max. ripple and noise	300 mVp-p (for full output load range)
Max. 24 V cable length	See table External power supply details

* See table External power supply details for the minimum required power ratings and cable lengths with respect to the length of Luminous Textile.

❶ Important

It is the responsibility of the customer to provide power supplies for the 24 V versions.

❶ Important

Panels with a length of more than 4.38 m (172.4 in) require two separated external power supplies.

External power supply details

Luminous Textile length		Driver box 1 power supply**			Driver box 2 power supply**		
(m)	(in)	Rated current (A)***	Rated power (W)	Max. cable length (m)****	Rated current (A)***	Rated power (W)	Max. cable length (m)****
0.72	28.3	2.2	52	6.0	-	-	-
0.78 to 1.44	30.7 to 56.7	4.2	100	4.8	-	-	-
1.50 to 2.16	59.1 to 85.0	6.1	148	3.8	-	-	-
2.22 to 2.88	87.4 to 113.4	8.1	194	3.2	-	-	-
2.94 to 3.60	115.7 to 141.7	10.0	240	2.8	-	-	-
3.66 to 4.32	144.1 to 170.1	12.0	288	2.4	-	-	-
4.38 to 5.04	172.4 to 198.4	7.1	170	3.5	7.1	170	3.5
5.10 to 5.76	200.8 to 226.8	8.1	194	3.2	8.1	194	3.2
5.82 to 6.48	229.1 to 255.1	9.1	218	3.0	9.1	218	3.0

** Each driver box requires a separate power supply.

*** Currents measured at Vo = 24.0 V

**** Max. cable length requirement is for 2 x 2.5 mm^2 or AWG13 cables.

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

General characteristics

Max. luminous flux	500 lm/m² (46.3 lm/ft²)
Max. luminance	190 cd/m² (17.6 cd/ft²)
Light source	RGB LEDs
RGB light engine burning hours L70	60,000 hrs, t_{amb} = 25 °C (77 °F)
Pixel pitch	60 mm (2.36 in)
Minimum frame rate	50 FPS
Number of colors	16.8 million
Number of panels in a system	Unlimited
Weighted acoustic absorption coefficient	0.45
EN ISO 11654 rating	Class D
Data connection	RJ45 Ethernet connection, port for optional remote control

General characteristics

Usage environment	Indoor only (IP20)
Ambient temperature	5 to 35 °C
Max. relative humidity	95%, Non-condensing

Mechanical

Length	0.72 to 6.48 m (28.3 to 255.1 in)
Increments	60 mm (2.36 in)
Width	0.72 to 1.2 m (28.3 to 47.2 in)
Increments	60 mm (2.36 in)
Thickness excluding installation elements	127 mm (5 in)
Weight (depending on size)	
Smallest size	19.3 kg/m² (3.95 lb/ft²)
Largest size	8.7 kg/m² (1.78 lb/ft²)
Mounting options	Wall (portrait/landscape, surface or recessed), ceiling (surface, recessed or suspended)
Finish	Beautiful array of Kvadrat textiles (ask your local representative for more information)

Electrical specifications AC version

AC input voltage	100 to 240 V
AC input frequency	50/60 Hz
Nominal input power	62 W/m² (5.8 W/ft²)
Input power	60 to 68 W/m² (5.6 to 6.3 W/ft²)
Input connector CE version	C14 input and output socket
Input connector UL version	3-Pin, screw terminal (suitable for stranded or solid wiring)

Electrical specifications 24 V version

DC input voltage	22.5 to 25.5 V
DC input current (panel size dependent)	2.2 to 12 A
Nominal input power	55 W/m² (5.1 W/ft²)
Input power	54 to 59 W/m² (5.0 to 5.5 W/ft²)
Max. DC input power per driver box	288 W
Max. current transients drawn from external PSU	10 A/ms
Max. allowed input ripple and noise (full range)	300 mVpp
Input connector	2-pin, screw terminal (suitable for stranded or solid wiring)

Approbation / compliance

Fire safety	B-s2 d0 (EN 13501-2 Euroclass) UL723, ASTM E84, NFPA 255
Approbations	
Europe	CE
United States / Canada	UL and c-UL listed (24 V version n.a.)

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Ordering information

For more information visit **www.colorkinetics.com/luminous-textiles**

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