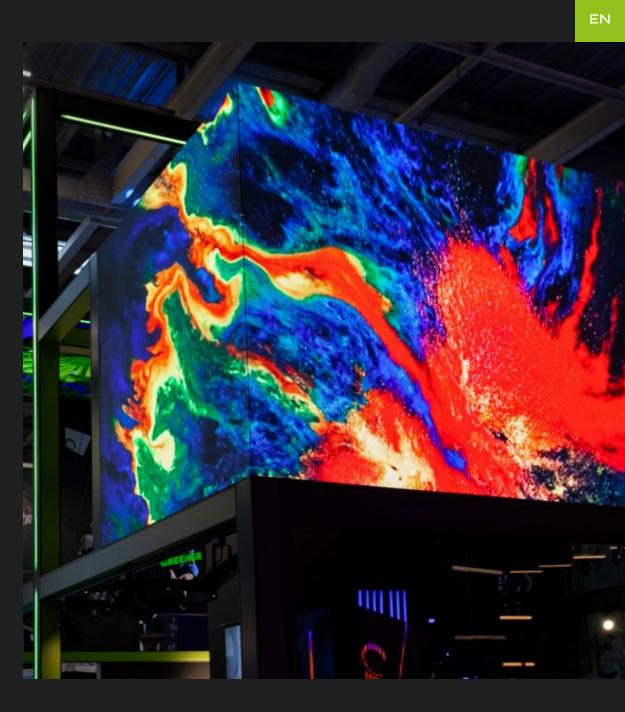
# LEDSKIN® be anything.





LEDskin <sup>®</sup>	
Animation, motion, and good vibes	2
A perfect fit with the beMatrix b62 concept and frames	-
LEDskin® P1.5	10
LEDskin® P2.5	13
Very user friendly	16
Freedom of form	18
Technical specifications	20



beMatrix LEDskin® was presented with several prestigious awards, reaffirming the innovative nature of this LED solution.









# **LEDskin**®

# Animation, motion and good vibes

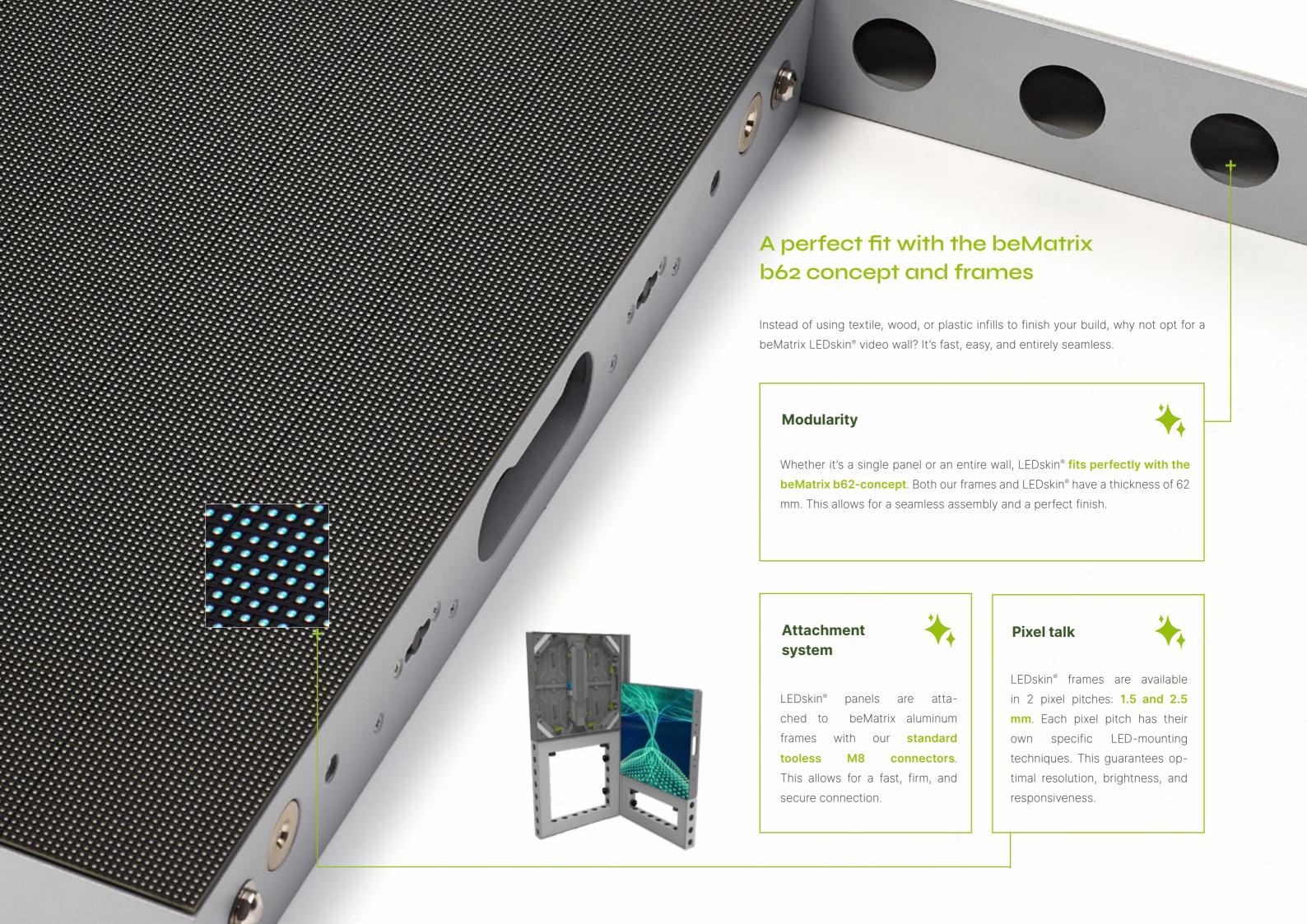
LEDskin® transforms your beMatrix builds into a **hotspot**, full of animation and motion, so your builds become a captivating visual **experience**. With LEDskin®, beMatrix continues to revolutionize the exhibit building experience. In just the blink of an eye, you can combine LED panels and frames to create an impressive video wall. LEDskin® is built within our 62 mm matrix, allowing it to seamlessly **integrate** into your new or existing beMatrix stock. No more visually-disruptive, individual screens with limited and fixed dimensions. Instead, you can turn the whole structure into a totally seamless video wall.

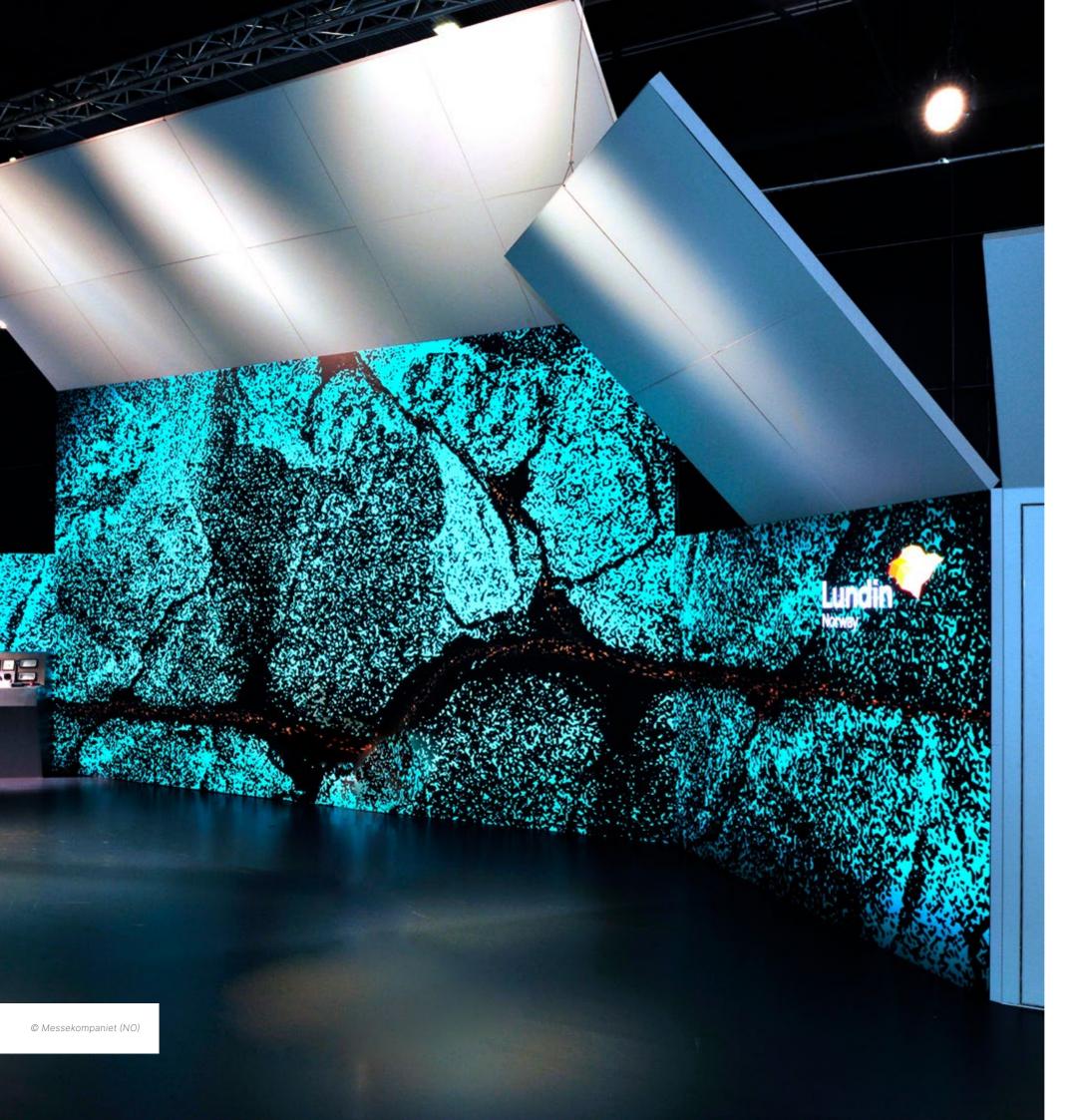


Discover the impact of LEDskin® on the beMatrix YouTube channel.







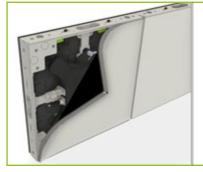




Panels are connected to each other using a precise pin lock system while manual connectors ensure a strong bond to the frames



The holes in the beMatrix frame also serve as a way to route cables, allowing for easy cable-management without an unsightly mess of cables sticking out the back of your builds.



The back of LEDskin® frames can easily be finished using textiles or panels (patented design), which can be easily attached using silicon edges or hook and loop tape.



The sides of the LEDskin® can be finished with the existing cover profiles by using cover clips.



LEDskin® tiles can be easily removed and replaced through hotswapping tiles using our Gekko tool. The tiles and power supply units can be removed from both the front and back.

# LEDskin® P1.5

beMatrix and Unilumin have created a high quality LEDskin® panel. The LED modules are available in a 1.5 mm pixel pitch with **COB Flip Chip** LED technology. Built with the b62 architecture in mind, our P1.5 LEDskin® can easily integrate into your existing beMatrix inventory. This is a huge game-changer as this is the first-of-its-kind LED cabinet that is available for rental.

#### **Chip on Board technology**

COB (Chip on Board) technology is new to the rental market. This technique involves mounting individual RGB LED chips to a thermally efficient substrate. This assembly is attached below a uniform, protective layerstack that enhances contrast and provides physical protection. This results in a durable and high-quality LED display, reinforcing our commitment to providing a hassle-free setup.



#### A full-on sustainable solution

The LED panels, and the content shown on them, can be used multiple of times. The same cannot be said about most printed products, which have a limited lifespan. This reduces resource consumption.

Thanks to our network of **AV bePartners**, you can also save money on transportation and investment costs. Our bePartners offer a variety of rental options and years of experience. They can help you with perfectly integrating our LEDskin® into your beMatrix designs.

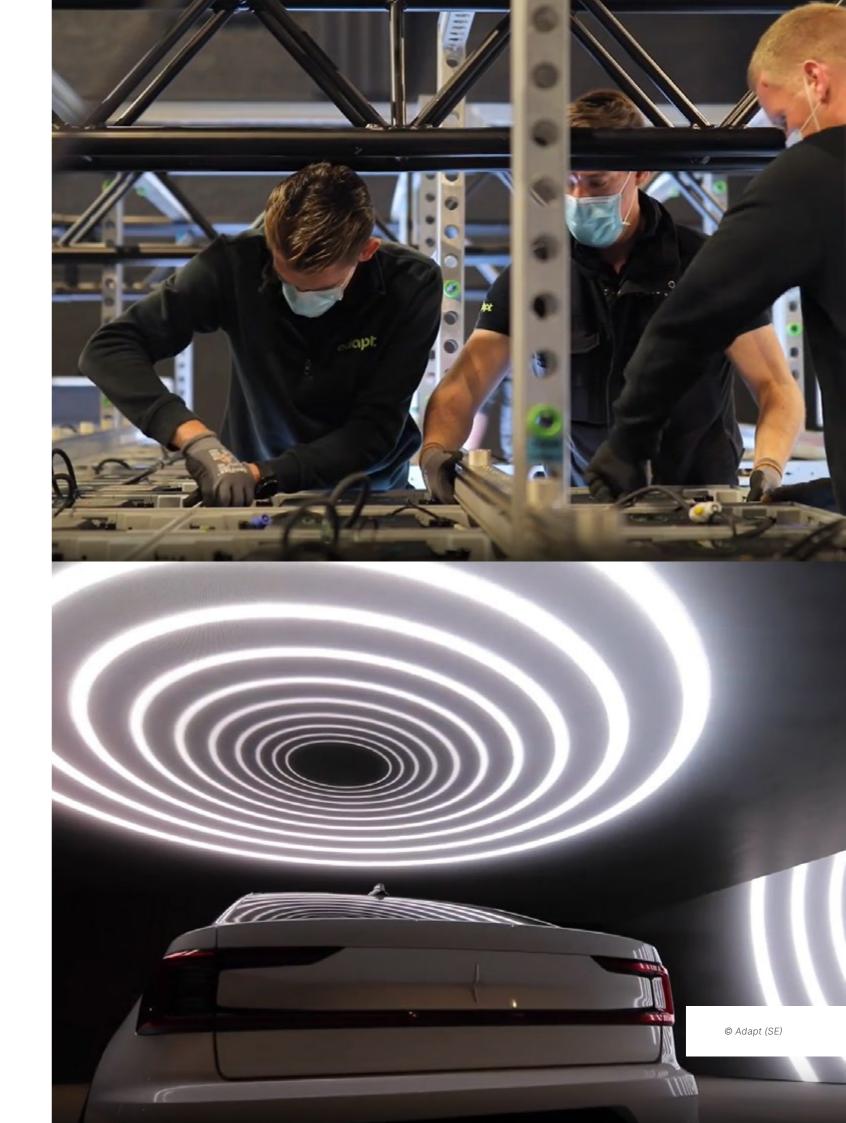


Unilumin



#### **Core specifications**

- Powered by Unilumin
- Original beMatrix b62 frame compliant
- State of the art COB (FC) technology: robust panel
- 320 × 320 HxV pixels highest resolution
- Cool and power efficient design
- Brightness 1,000 Nits, contrast ≥ 10,000/1
- Size 496 × 496 × 62 mm
- Extremely lightweight 6.1 kg cabinet
- Fast and easy installation
- This new technology and LED panel is patented.



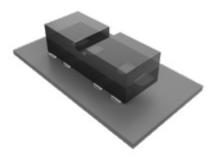


## LEDskin® P2.5

A new generation of LEDskin® was launched in 2024 with a new design, improved display specifications, and more integration options. This LED panel, powered by Infiled, has a pixel pitch of 2.5 mm to provide high-quality imagery. In addition, we improved the **strength and durability** of the individual LEDs using **IMD 2 in 1** LED technology.

#### **Integrated Matrix Device LED technology**

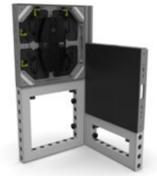
This new LED cabinet uses IMD (Integrated Matrix Device) 2 in 1 technology. Two groups of RGB diodes are assembled into a single unit called an IMD. This new generation of LED technology that meets the current market demand for both image quality and durability.



#### Tech talk

This new LEDskin® P2.5 panel gives you improved reliability thanks to its **anti-collision design**. Additionally, the implementation of IMD 2 in 1 LED technology provides improved color accuracy and consistent brightness over a wide viewing angle. The combination of these features give you a stunning display for your beMatrix builds.

Thanks to our network of **AV bePartners**, you can also save money on transportation and investment costs. Our bePartners offer a variety of rental options and years of experience. They can help you with perfectly integrating our LEDskin® into your beMatrix designs.





#### **Core specifications**

- Powered by Infiled
- Original beMatrix b62 frame compliant
- IMD 2.5 MT2 technology: high color consistency
- 192 × 192 HxV pixels high resolution
- Brightness 1,200 Nits, contrast ≥ 5,000/1
- Size 496 × 496 × 62 mm
- Lightweight 7.5 kg cabinet
- Fast and easy installation
- This new technology and LED panel is **patented**.



# Very user friendly

You don't need to be a tech genius to use LEDskin®. Our LED wall is plug & play: all you need is to mount the tiles, plug it in, and connect to your video device/computer.

To manage the LEDskin®, we use the well-known and global-ly-available **Novastar Eco system**. This device is simple and compatible with both Apple OS and Microsoft Windows. Just boot up your device and you can have content on your LEDskin® in only a few seconds.

We are constantly innovating, and we always have the latest Novastar software updates for our products available for you. be-Matrix is your one-stop-shop: new innovations, technical training, and support all straight from the source.







For optimal handling, we designed all LED panels to be light as possible. Grips and handles are integrated directly into the panels.



We've designed a new flightcase that allows for quick loading and safe handling of our LEDskin® panels. Thanks to **padding within the case**, LEDs do not make direct contact with the sides of the flightcase. This flightcase fits 8 LEDskin® tiles (2 m²) and all necessary cables.

16

### Freedom of form

The creative ways in which you can use LEDskin® are limitless. Think outside of conventional rectangular LED screens. LEDskin® allows you to create more dynamic shapes and mosaics. Thanks to LEDskin®, you don't need to shy away from corners or curves: you can create the perfect inner or outer corner as well as curved shapes. LEDskin® opens you up to unlimited design freedom.

#### Inner and outer corners

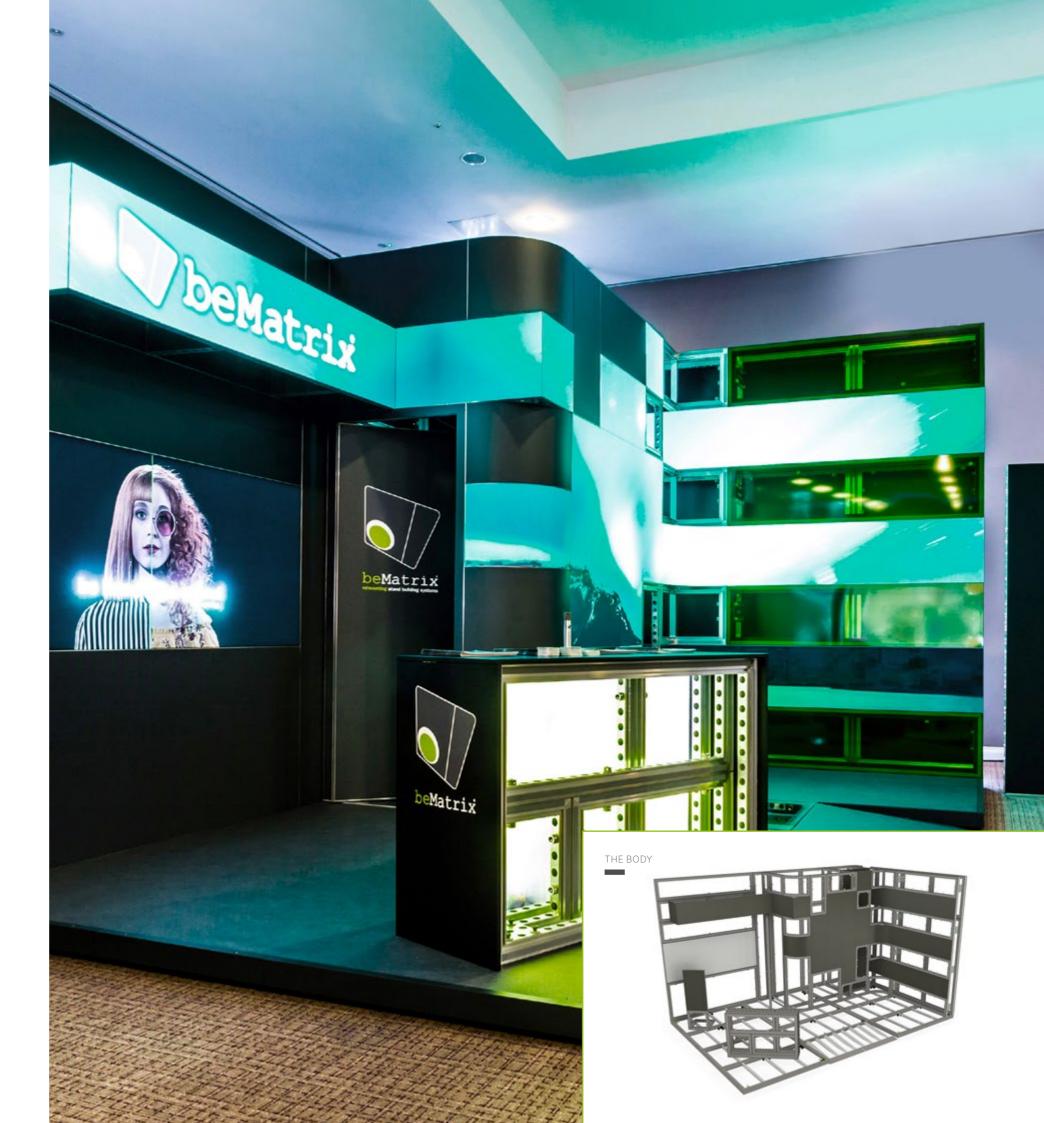
By combining LEDskin® frames with beMatrix corner profiles, designers can easily create inner corners. To create outer corners, beMatrix created a molded frame in which 1.5 and 2.5 pixel pitch LED modules can be attached.

#### Curves

Curved LED modules can be paired with convex or concave LEDskin® frames allowing you to integrate curves perfectly into the beMatrix frame system. These are available in a 2.5 pixel pitch.

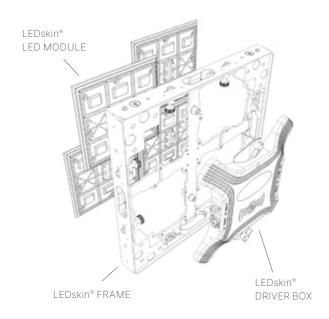
INNER CORNER	OUTER CORNER

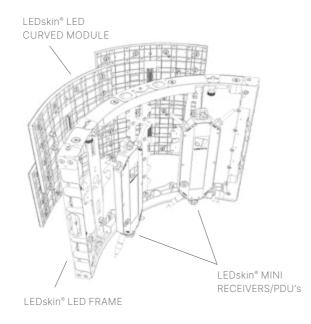
CONCAVE	CONVEX





# **Technical specifications**





#### **LEDskin® information**

PIXEL PITCHES	1.5 MM COB	2.5 MM IMD 2IN1

#### Straight LED frames

Number of LEDskin® modules per cabinet	4 pcs	4 pcs
LEDskin® module resolution	180 × 180 pixels	96 × 96 pixels
LEDskin® module dimensions	248 × 248 mm	248 × 248 mm
LEDskin® cabinet resolution	320 × 320 pixels	192 × 192 pixels
LEDskin® cabinet dimensions	496 × 496 × 62 mm	496 × 496 × 62 mm
Pixel density	416,233 pixels/m <sup>2</sup>	149,844 pixels/m <sup>2</sup>
Cabinet weight	6.1 kg	7.5 kg

#### Curved LED frames - concave - R430

Number of LEDskin® modules per cabinet	-	4 pcs (2 left – 2 right)
LEDskin® module resolution	-	138 × 96 pixels
LEDskin® module dimensions	-	356 × 248 mm
LEDskin® cabinet resolution	-	276 × 192 pixels
LEDskin® cabinet dimensions	-	496 × 496 × 496 mm
Pixel density	-	149,844 pixels/m <sup>2</sup>

#### Curved LED frames - convex - R430

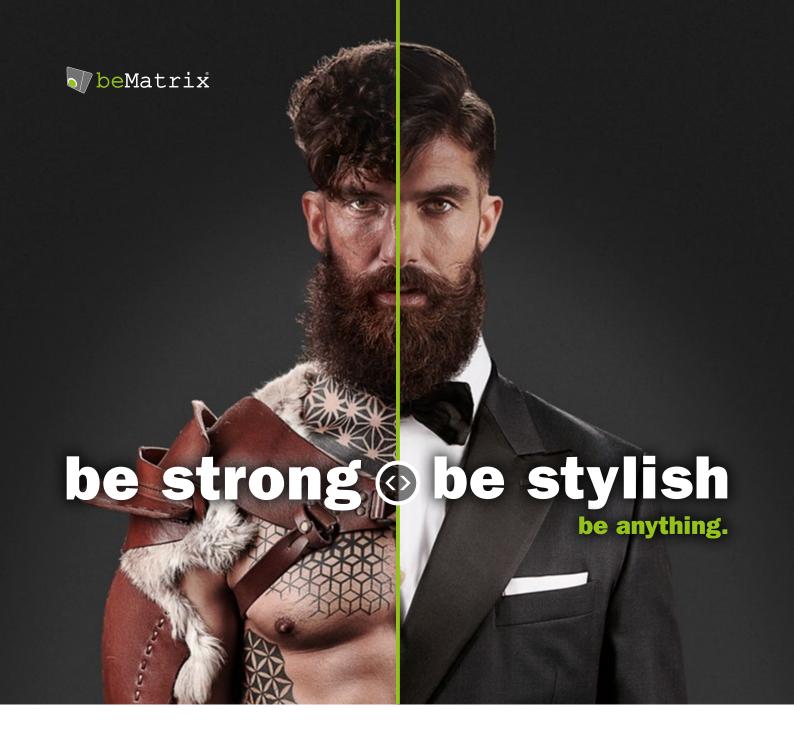
Number of LEDskin® modules per cabinet	-	4 pcs (2 left - 2 right)
LEDskin® module resolution	-	156 × 96 pixels
LEDskin® module dimensions	-	402.6 × 248 mm
LEDskin® cabinet resolution	-	312 × 192 pixels
LEDskin® cabinet dimensions	-	496 × 496 × 496 mm
Pixel density	-	149,844 pixels/m²

#### Mechanical and optical ratings

Surface flatness	Gap ≤ 0.12 mm	Gap ≤ 0.20 mm
Brightness	1,000 nits	1,200 nits
View angle	170°/170°	170°/170°
Optimal viewing distance	≥ 1.5 m	≥ 2.5 m
Brightness adjustment	0-100% 100 steps	0-100% 100 steps
Contrast ratio	≥ 1:10,000	≥ 1:5,000
LED technology	COB FC	IMD 2 in 1
Color technology	EBL+	CBSF
Refresh rate (Hz)	3,840	3,840
Mask	No	Yes
LED Push off force		4.3kg AVG

#### Power supply

Max. power consumption / cabinet	140 W	144 W
Average power consumption / cabinet	25 W	30 W
Platform	Novastar	Novastar
Receiver card	A10s-Pro	A8s-N
Operating life	100,000 hours	100,000 hours



#### Come say hi

beMatrix USA 4476 Park Drive Norcross, GA 30093

#### get in touch

770 225 0552 help@beMatrix.com

#### or boost your inspiration

www.beMatrix.com socials @beMatrixUSA

f **y** in **© □**