

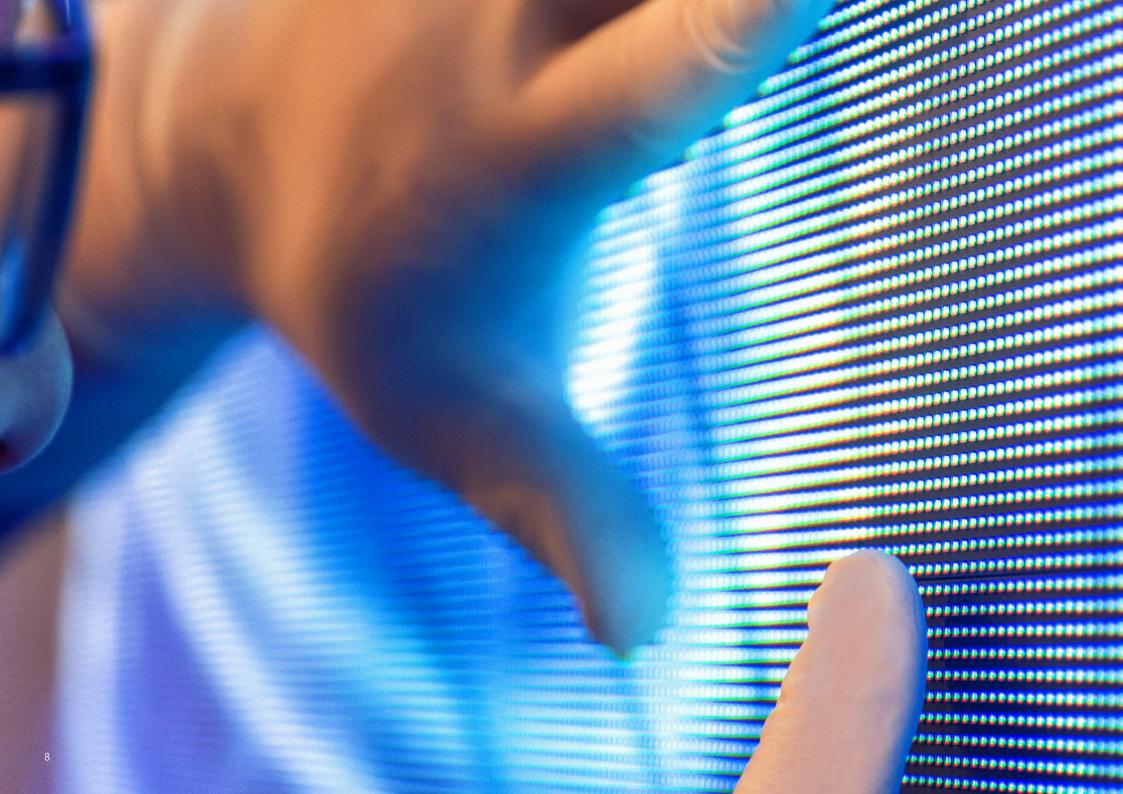
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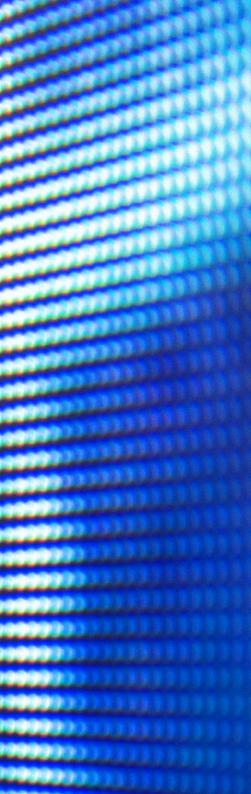
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While today's movies feature the most advanced graphics and refined production techniques ever, outdated theater technologies can prevent them from appearing at peak quality. To showcase these pictures as intended, the cinema industry needs state-of-the-art cinema screen technologies more powerful and capable than the projector-based systems it has relied on for more than 120 years.







### Samsung Innovation

Through a host of cutting-edge technologies, Samsung's visual displays transform the audience engagement experience in any setting. This commitment to innovation and improvement inspired Samsung to challenge long-held norms and drive change across the cinema industry. For Samsung, the "Cinema LED Revolution" begins with lifelike imagery and a viewing environment unlike any other.

# The cinema of the future



Samsung is prepared to play a starring role in shaping the "cinema of the future" with its new Cinema LED Technology called "Onyx". By introducing the visual power of LED picture quality to the big screen, the Samsung Onyx offers viewers more powerful, captivating and memorable content.

The next generation of the cinema is now – step into the future.

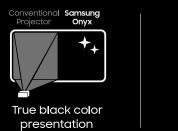


# Out of this world

Inspired by the gemstone of the same name, the Samsung Onyx brand alludes to the display's ability to showcase cinema content with true black colors. Backed by brilliant LED picture quality and an infinite contrast ratio that brings out the best in these deep blacks, the Samsung Onyx delivers movie content like never before. Even 3D content appears more realistic and with unparalleled depth. With perfectly-tuned surround sound from HARMAN Professional, viewers can enjoy a multi-sensory experience that makes them feel a part of every scene. For cinema content that is out of this world, trust the Samsung Onyx.



#### **Redefined Black**





HDR supported content



The Samsung Onyx translates true black color into next-level immersion. Through HDR picture refinement, viewers can enjoy more detailed, textured and visually-rich content that inspires a deeper connection. As the Samsung Onyx is unaffected by ambient light, it upholds consistent and distortion-free picture quality that keeps audiences engaged and furthers realism. In the Samsung Onyx theater, characters and places come alive and fuel imagination.





#### **Extreme Reality**



Unparalleled 3D depth



Enhanced brightness and crisp details

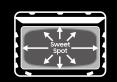


Clearly readable texts

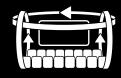
Just when you thought 3D movie content could not get any more lifelike, the Samsung Onyx takes realism to the next level. Featuring high-brightness picture technology, the Onyx works together with specialized 3D glasses to amplify visual details in every scene. Text becomes easier to read, and images appear as if in the front of the room.



### **Perfectly Tuned Audio**



Expanded sweet spot



Specialized tuning for LED screen



Powerful JBL speakers

Even the most visually-advanced pictures need quality sound to bring them to life. Samsung's Onyx Cinema LED technology amplifies next-level cinema content with JBL's sculpted surround sound audio. And with an expanded audio sweet spot, viewers in every theater seat can enjoy the same high-quality, multi-sensory viewing experience.



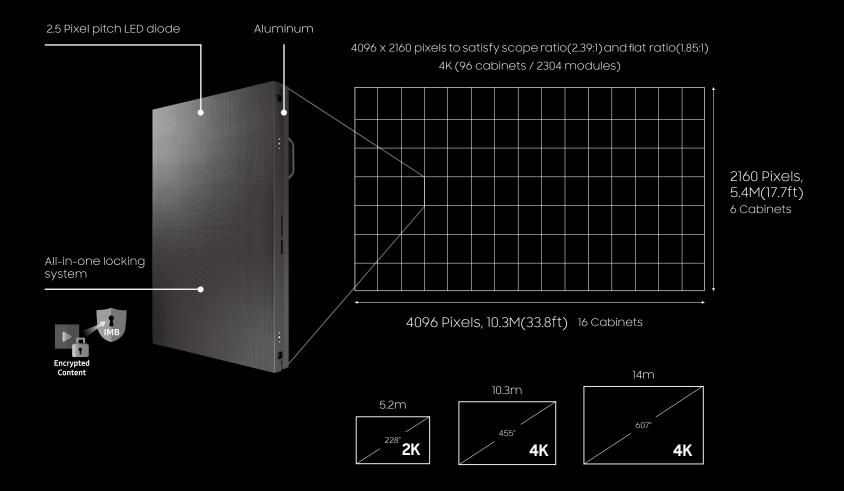


## Onyx DESIGN

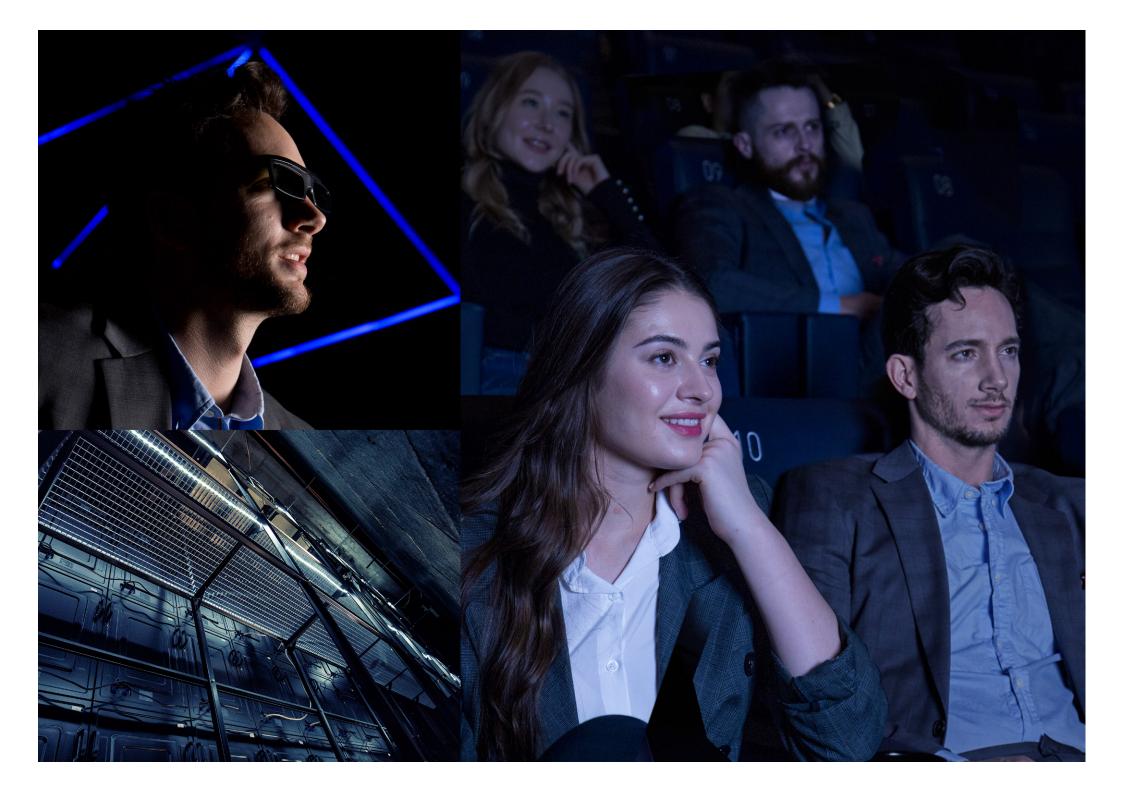


#### **Expanded and Modern Theater**

The Samsung Onyx makes the modern theater feel bigger and better. By eliminating bulky projector equipment, theaters can include more seats and offer content to wider audiences. And with a light-resistant design, cinema operators no longer have to worry about interference or disruptive distraction.



Constitution	Samsung Onyx				
Specification	Per Cabinet	Per Screen(96 Cabinets)	Remarks		
Size(WxH)	640x900(mm), 23.6x35.4(inch)	10,240x5,400(mm), 33.8x17.7(ft)			
Weight (Kg)	14.2 kg	1,440kg	Support frame not included		
Resolution (WxH, Pixel)	256 × 360	4,096 × 2,160			
Aspect ratio	0.71:1	Flat(1.85:1) / Scope(2.39:1)	Flat: 3,996 × 2,160 / Scope:4,096 × 1,716		
Cabinet Construction	All aluminum construction	All aluminum construction			
Brightness (Nomal / Max)	14fL(48nit) / 87.56fL(300nit)	14fL(48nit) / 87.56fL(300nit)	Support up to 146fL(500 nit) at Custom mode		
Power Consumption-Max/Typical	120 / 39 W	11.52 / 3.74 kW	Cabinets only		
Heat Generation-Max/typical	66.1 / 21.5 (BTU/SF per hour)	66.1 / 21.5(BTU/SF per hour)			
Working Temperature	0-40°C (32-104°F)	0-40°C (32-104°F)			
LED Lifetime	100,000 hours	100,000 hours			
Bit Depth(Gray Scale Intensity)	16 bit				
Refresh Rate	3,072 Hz				
Input Power Range	100-240 VAC, 50/60 Hz				
Power Consumption-Max/Typical	120 / 39 (W/Cabinet)				
Heat Generation-Max/Typical	66.1 / 21.5 (BTU/SF per hour)				
ESD(Electro-Static Diode)	Applied to bottom row of screen				
Certification	DCI (Digital Cinema Initiatives)				
Service	RearService				



## SAMSUNG

#### About Samsung Electronics Co. Ltd.

Samsung Electronics Co. Ltd. Inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit Samsung Newsroom at http://news.samsung.com.

#### Samsung Onyx

or more information about Samsung Onyx, visit www.samsung.com/business or www.samsung.com/displaysolutions

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