

SAMSUNG



Cinema LED Onyx

ICD series

Out of this world.

Samsung Onyx represents the future of cinema. As the world's first DCI-certified cinema LED display, it has been redefining the entire cinematic experience for over 7 years since its debut in 2017. With its true black and vivid color presentations, Onyx goes beyond the ordinary, fully immersing viewers in the film worlds. Recognizing that every theater varies in size, Onyx offers three standard sizes: 16.4 ft., 32.8 ft., and 65.6 ft., and can flexibly scale up to fit the theater's space, maximizing screen usage and audience engagement. Additionally, Samsung Onyx effortlessly integrates with both Dolby and GDC media servers, providing flexible options for smooth and convenient content management across the entire theater network.

Key features



True black presentation

With its infinite contrast ratio, Samsung Onyx translates true black color into next-level immersion, uncovering immaculate details even in low-tone visuals.



Vivid color expression

Onyx showcases precise color accuracy across a spectrum of hues, delivering 100% color volume even at peak brightness.



HDR support

Samsung Onyx's HDR technology enhances brightness by approximately 6 times compared to conventional cinema standards, creating clearer visuals.

* Supported by using DCI-HDR compatible IMBs.



Scalable size

Onyx offers flexible scaling options, allowing theaters to maximize their space and showcase films in the largest possible format.

* Onyx offers 3 standard sizes (16.4 ft., 32.8 ft., and 65.6 ft.), with customizable scaling options.



Flexible media server options

Offering full compatibility with both Dolby and GDC media servers, Samsung Onyx enables streamlined content management throughout the entire theater network.

Specifications

Model		Onyx		
Screen	Pixel pitch	1.25 mm	2.5 mm	5.0 mm
	Resolution	4,096 x 2,160	4,096 x 2,160	4,096 x 2,160
	Screen Size (m / ft.)	5 m / 16.4 ft.	10 m / 32.8 ft.	20 m / 65.6 ft.
	Scaling Support	Yes	Yes	Yes
	Size (W x H mm / in.)	5,120 x 2,700 mm / 201.5 x 106.3 in.	10,240 x 5,400 mm / 403.1 x 212.6 in.	20,480 x 10,800 mm / 806.3 x 425.2 in.
	Size (Inch)	227"	455"	911"
	Number of cabinets	24	96	384
	Screen Weight (kg / lbs.)	TBD	1,363 kg / 3,005 lbs.	TBD
	Aspect ratio	Flat (1.85:1) Scope (2.39:1)	Flat (1.85:1) Scope (2.39:1)	Flat (1.85:1) Scope (2.39:1)
Module	Size (W x H mm)	160 x 120	160 x 150	160 x 150
	Resolution	128 x 60	64 x 60	32 x 30
Cabinet	Number of modules (EA)	24	24	24
	Resolution	512 x 720	256 x 360	128 x 180
	Size (W x H x D mm)	640 x 900 x 125	640 x 900 x 125	640 x 900 x 125
	Physical security	Key locking (DCI compliant)	Key locking (DCI compliant)	Key locking (DCI compliant)
General	Brightness	14fL (48nit)	14fL (48nit)	14fL (48nit)
		87.6 fL (300nit)	87.6 fL (300nit)	87.6 fL (300nit)
		Adjustable for alternative content	Adjustable for alternative content	Adjustable for alternative content
	Contrast ratio	∞ in Dark room	∞ in Dark room	∞ in Dark room
	Color gamut	DCI-P3	DCI-P3	DCI-P3
	Uniformity	Over 90%	Over 90%	Over 90%
	Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
	Power Consumption (Typical, Screen)	TBD	(300nit) 6,380W, (48nit) 4,076W	TBD
	Viewing Angle	160 / 160	160 / 160	160 / 160
	Frame Rate	Screen, Max 4K120 Hz (IMB Frame Rate Dependent)	Screen, Max 4K120 Hz (IMB Frame Rate Dependent)	Screen, Max 4K120 Hz (IMB Frame Rate Dependent)
	Maintenance	Rear	Rear	Rear
	Warranty	Basic 3 years, extendable up to 10 years	Basic 3 years, extendable up to 10 years	Basic 3 years, extendable up to 10 years

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