

SONY



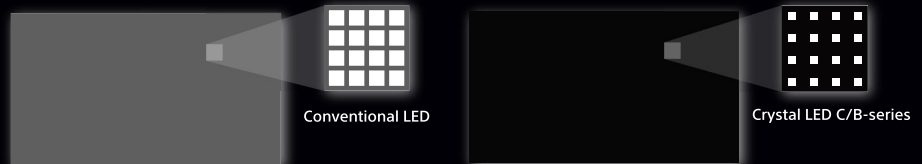
Crystal LED

Large-scale Micro LED displays and video walls

Building on the success of our first Crystal LED display, which has become well known in the industry as one of the highest quality LED video walls on the market, these four new display options enable you to bring extraordinary picture quality to an even wider audience. Beautifully designed, Crystal LED displays provide super high contrast and super high brightness images in either a 1.2mm- or 1.5mm-pixel pitch, exceeding expectations in any environment.

Main Features

Outstanding Contrast: Each Micro LED occupies a tiny fraction of the mounting area, resulting in an extraordinary contrast ratio of more than 1,000,000:1.

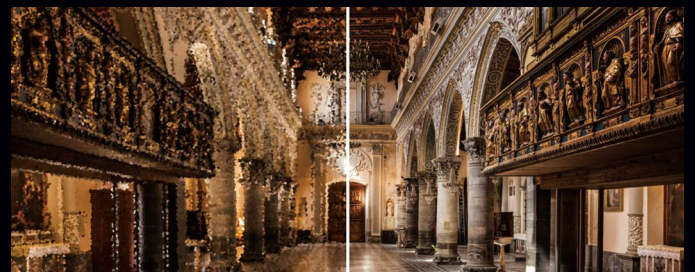


Simulated images



X1™ for Crystal LED

The new displays are equipped with our high-performance image quality processor “X1™ for Crystal LED” incorporating the latest LED control technology developed for our pioneering Crystal LED, alongside the signal processing technology praised in Sony’s BRAVIA TV series.

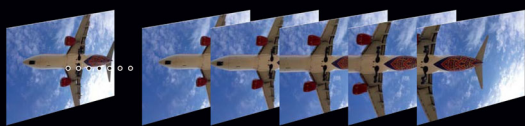


Off

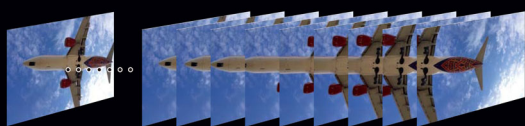
On

Reality Creation technology with exclusive database type processing upscales lower resolution input signals for finely detailed images, even when viewed close up.

Motionflow Off



Motionflow On



Motionflow technology reduces motion blur for smooth reproduction



Conventional

22bit processing

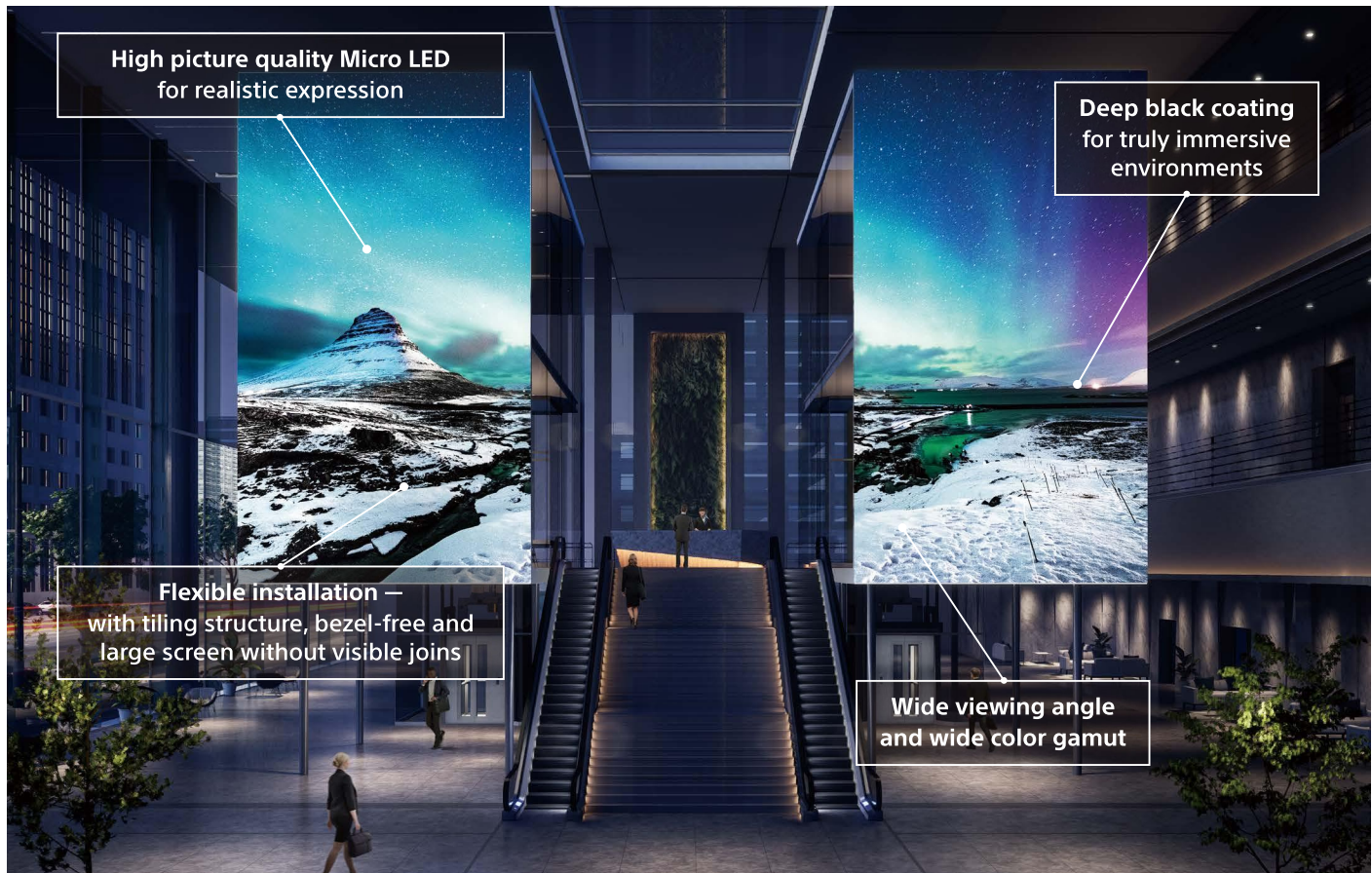
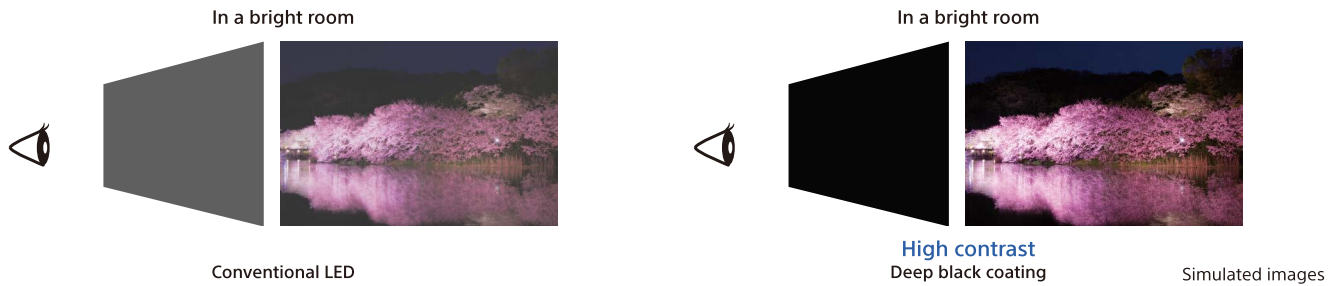
22bit Super Bit Mapping signal processing realizes high contrast

Crystal LED C-series

The displays are ideal for corporate showrooms, lobbies and entrances. Our new C-series high-contrast Micro LED displays create truly immersive environments with precise image detail.

Deep black coating

An exclusive surface treatment is applied to the Crystal LED displays to enable high-contrast image expression without scattered reflection. This enhances the deep blacks to create extremely realistic imagery even in brightly lit environments.



The new Crystal LED C-series displays meet the needs of creative designers and systems integrators alike, with simple installation and flexible configurations for multiple applications.

Applications



Crystal LED B-series

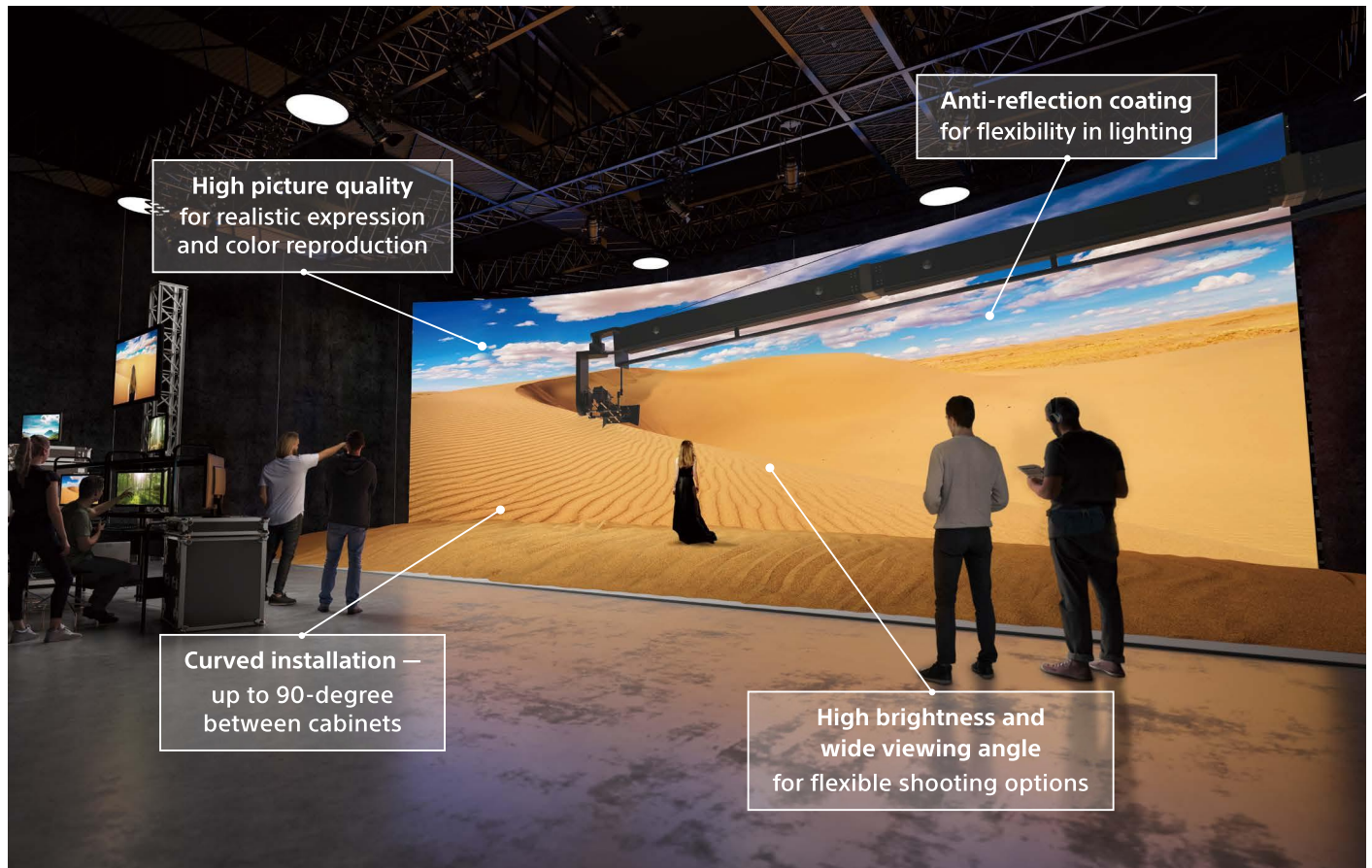
The displays are ideal for corporate lobbies, virtual sets and production backdrops. Our new B-series high-brightness Micro LED displays can be installed in a multitude of environments with varying ambient light conditions thanks to its anti-reflection coating.

Anti-reflection coating

The display's unique surface treatment prevents reflection from external lighting, and achieves high brightness while maintaining a wide color gamut and wide viewing angle. This is extremely beneficial in virtual production and broadcast set locations where it is essential to prevent external lighting to appear on a screen.



Simulated images



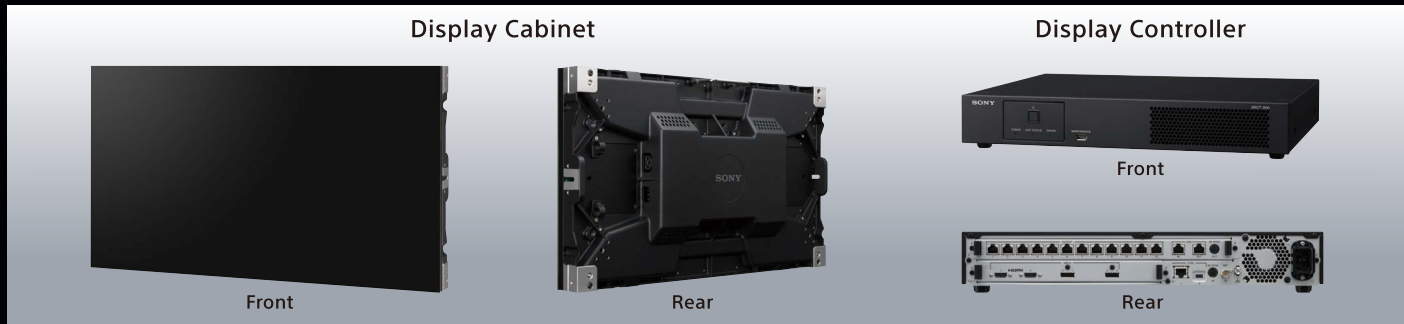
The new Crystal LED B-series displays meet the needs of creative designers, filmmakers and systems integrators alike, with simple installation and flexible configurations for multiple applications.

Applications



Easy Installation, Flexible Setup

Our Crystal LED C and B-series display systems are scalable for video walls of virtually any size, with a bezel-free design for gorgeous, seamless images. Installation is simple, with flexible configurations to meet the creative demands of creators and designers. The cabinets can be placed on a wall or in a curved installation with minimum backspace thanks to front access to the unit.



Specifications

Display Cabinet

Specification	ZRD-C12A	ZRD-C15A	ZRD-B12A	ZRD-B15A
Surface	Deep black coating		Anti-reflection coating	
Pixel Pitch	1.26 mm	1.58 mm	1.26 mm	1.58 mm
Resolution (W x H)	480 x 270	384 x 216	480 x 270	384 x 216
Brightness (Max.)	800 cd/m ²	750 cd/m ²	1,800 cd/m ²	1,700 cd/m ²
Contrast Ratio (0 lx)	More than 1,000,000 : 1			
Viewing Angle (H/V)	160° / 160°		170° / 170°	
Color Gamut (BT2020, Δu'v' coverage)	Approx. 83 %			
Color Gamut (DCI-P3, Δu'v' coverage)	Approx. 97 % (ZRD-C12A/B12A : DCI acceptable)			
Color Gamut (sRGB, Δu'v' area)	Approx. 143 %			
Bit Depth	22 bit Internal Processing			
Frame Rate	Up to 120 fps			
Signal Interface	1 in 1 out (2 x RJ45)			
Operation Temperature	0 °C - 35 °C			
Power Requirements	AC 100 - 240 V, 50 / 60 Hz			
Power Consumption (Max.)	142 W (Per-sqm: 677 W)	135 W (Per-sqm: 643 W)	142 W (Per-sqm: 677 W)	135 W (Per-sqm: 643 W)
Power Consumption (Ave.)	64 W (Per-sqm: 305 W)	58 W (Per-sqm: 277 W)	64 W (Per-sqm: 305 W)	58 W (Per-sqm: 277 W)
Dimensions (W x H x D)	608 x 342 x 76 mm (23 15/16 x 13 15/32 x 2 63/64 in)			
Mass	Approx. 9.5 kg (20 lb 15.10 oz) (Per-sqm: Approx. 45.7 kg)			
Application	Indoor			

Display Controller

Specification	ZRCT-300
Maximum Control Number of Display Cabinet	ZRD-C12A/B12A : 64 ZRD-C15A/B15A : 100
Maximum Input Resolution (W x H)	3,840 x 2,160
Maximum Input Frame Rate	120 fps
Bit Depth	26 bit (RGB 26 bit each)
Multiple Controller Link	Yes
Maximum Linkage Number of Controller	20
Video Input	HDMI2.0 x 2, DisplayPort (DP1.2) x 2
Cabinet Output	RJ45 x 12
Control	RJ45 (ethernet) x 1, USB x 1
Fan Noise	27 dBA - 32 dBA (27 dBA@25 °C, 32 dBA@35 °C)
Operation Temperature	0 °C - 35 °C
Storage Temperature	-20 °C - 60 °C
Operation Humidity	20 - 80 % (No condensation)
Storage Humidity	20 - 80 % (No condensation)
Power Requirements	AC 100 - 240 V, 50 / 60 Hz
Power Consumption (Max.)	100 W
Dimensions (W x H x D) (Without protrusion)	440 x 65 x 349 mm (17 3/8 x 2 5/8 x 13 3/4 in) *1.5 U 19-inch rack
Mass	Approx. 6.4 kg (14 lb 1.75 oz)

Input Signal

HDMI

Resolution	Input frame rate*1	Input bit depth	Input color sampling		
3840 x 2160	60P/50P	8 bit	RGB 4:4:4*2/YCbCr 4:4:4*2/YCbCr 4:2:0		
		10 bit	YCbCr 4:2:2*2		
	30P/25P/24P	12 bit	YCbCr 4:2:2*2		
		12/10 bit	RGB 4:4:4*2/YCbCr 4:4:4*2		
1920 x 1080	60P/50P/30P/25P/24P	8 bit	RGB 4:4:4/YCbCr 4:4:4		
		12 bit	YCbCr 4:2:2		
	60P	12/10/8 bit	RGB 4:4:4/YCbCr 4:4:4/YCbCr 4:2:2*3		
			8 bit	RGB 4:4:4/YCbCr 4:4:4	
		50P	60P	8 bit	RGB 4:4:4/YCbCr 4:4:4
				12 bit	YCbCr 4:2:2

*1: 1,000/1,001 frame rate is also supported for 60p/30p/24p.

*2: Strongly recommend using premium high speed HDMI cables.

*3: 12bit only

DisplayPort : Single Input

Resolution	Input frame rate*1	Color bit depth	Input color sampling
3840 x 2160*2	60P/50P/30P/25P/24P	8/10 bit	RGB 4:4:4
1920 x 2160	120P*2/100P*2/60P/30P/25P/24P		
1920 x 1080	120P/100P/60P/50P/30P		

DisplayPort : Dual Input

Resolution	Input frame rate*1	Color bit depth	Input color sampling
3840 x 2160*3	120P/100P	8/10 bit	RGB 4:4:4

*1: 1,000/1,001 frame rate is also supported.

*2: Only multi-stream is supported.

*3: Supported by two input signals of 1920 x 2160, 120P.

Display Controller Connector Panels

