

SONY

Crystal LED CAPRI

for Virtual Production

ZRD-VS25FB/ZRD-VS25FM



Crystal LED CAPRI



Demand for virtual production is growing, driving the need for accessible LED video wall solutions. Our Crystal LED CAPRI video wall fulfils this requirement, delivering exceptional picture quality with high refresh rate, high brightness and wide colour gamut ensuring faithful reproduction of virtual sets. Quick, flexible installation is complemented by easy maintenance for minimized on-set downtime. CAPRI forms part of a total virtual production ecosystem by Sony, including Cinema Line cameras, LED video walls and Sony's Virtual Production Tool Set that addresses common VP issues and streamlines workflows on set and in post.

Streamlined virtual production workflows



Crystal LED CAPRI, drawing on Sony's cutting-edge expertise in content creation and virtual production technology, extends artistic possibilities and streamlines workflow. This new display serves as part of a holistic virtual production ecosystem that includes cameras, sensing solutions, and Sony's Virtual Production Tool Set.

Compatibility with the industry-leading display controllers from Brompton and Megapixel, simplifies integration into a wide range of production environments while reducing training requirements

High picture quality for virtual production

Crystal LED CAPRI is a compelling choice for virtual production. The extraordinary high refresh rate, high brightness and wide Colour gamut of Crystal LED lets content creators realize lifelike digital backdrops, dramatically simplifying the creation of complex multi-element shots in-camera without the need for live actors to perform in front of green screens.

High refresh rate reduces scanline artifacts

When the refresh rate of an LED display is too low, it can cause flickering and distracting artifacts that are particularly noticeable with today's high frame rate cameras used in virtual production. Visible scan lines occur when the camera shutter interacts with the LED display's scan pattern due to poor synchronisation. Crystal LED CAPRI uses high performance LED driver ICs (Integrated Circuits) capable of extremely high refresh rates up to 7,680Hz. The display strategically illuminates a precise portion of LEDs at each moment, significantly enhancing light capture when the camera shutter is open.

Scan line artifact at a low refresh rate LED



Conventional LED

7680Hz refresh rate reduce scanline

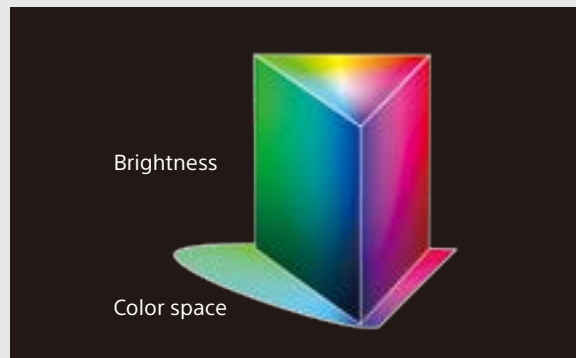


CAPRI

High brightness and wide colour gamut

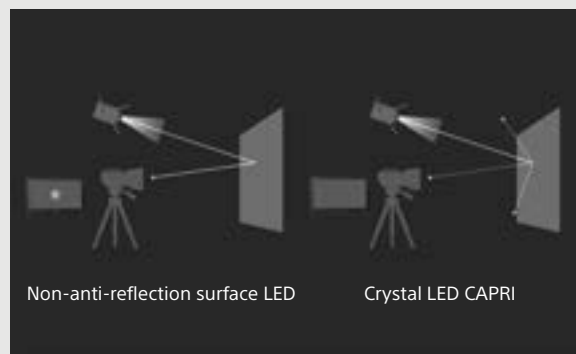
Crystal LED CAPRI is ideally suited to the demands of virtual production. An extremely high display brightness of 1,500 cd/m2 is complemented by accurate reproduction of 98% of the DCI-P3 colour gamut, contributing to the accurate reproduction of highly realistic virtual sets.

Color volume



Anti-reflection surface to reduce reflections from lighting

Each display panel of CAPRI is equipped with an anti-reflection capability, preventing reflections from filming sets and lighting equipment on its surface.

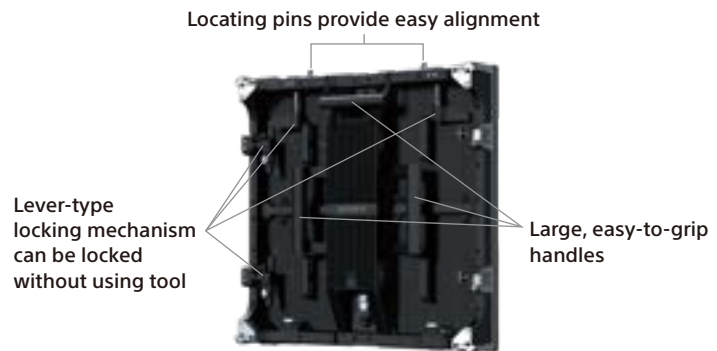


Installation flexibility

Crystal LED CAPRI gives system integrators and rental specialists exceptional installation freedom. The modular LED panels are easy to install without needing special skills or complex equipment.

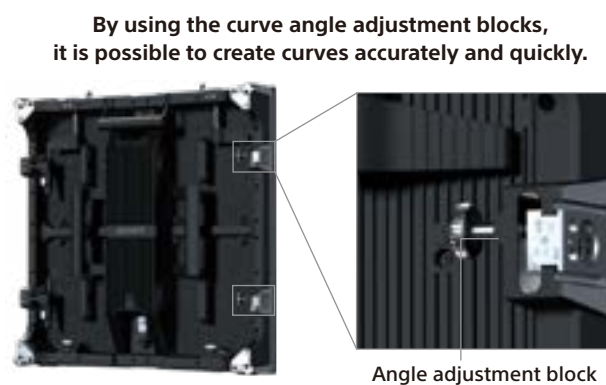
◆ Quick, easy construction

Popular with the virtual production rental industry - especially for temporary LED wall installations - the self-stacking cabinet's square 1:1 dimensions simplify rapid LED wall assembly and dismantling between projects.



◆ Supports various installation forms

Crystal LED CAPRI gives installers exceptional flexibility in building LED walls of any scale and geometry, up to 2,000 modular display cabinets or more. Cabinets can be stacked or suspended to suit any virtual production requirement. The reinforced back frame allows cabinets to be stacked up to 14 units high for a total video wall height of 7m, while angle adjustment blocks allow quick, easy creation of highly accurate curved surfaces.

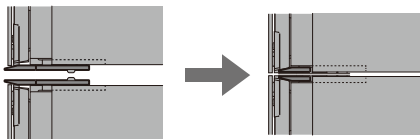


Protection during installation

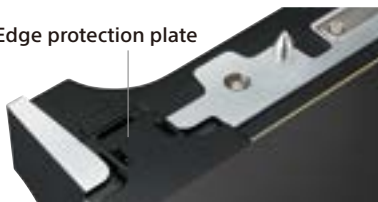
Protection mechanisms reduce the risk of damage to LED modules during installation. This contributes to reduced total cost of ownership for rental companies, especially with the frequent construction and dismantling of temporary virtual production stages.

Edge Protection

Edge protection plate automatically slides in when two cabinets are combined to avoid top and bottom from hitting together.

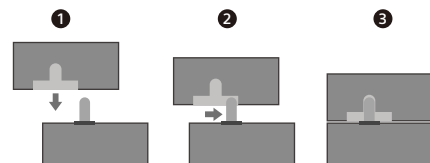


Edge protection plate



Groove for sliding contact

The pin slides on the groove and falls into the hole to avoid sides of the cabinets from rubbing together.



Pin

Groove



Familiar User Interface

Crystal LED CAPRI fits smoothly and efficiently into today's virtual production workflow. There's a choice of versions that are compatible with industry-standard LED wall display controllers by Brompton and Megapixel, simplifying integration into a wide range of virtual production environments and reducing training requirements. Furthermore, consistent accurate colour reproduction during shooting reduces additional work in post-production.

Compatible LED wall display controller for CAPRI



Brompton Tessera SX40



Megapixel HELIOS®

Quick, easy routine maintenance

Costly downtime is a luxury that no virtual production facility can afford. Easy-to-maintain Crystal LED CAPRI cuts pressure on technical crews with time-saving features for simple maintenance, reducing virtual production costs and effort.

Quick module swaps

Individual LED modules can be easily exchanged with access from the front and back of the cabinet.



Status light

A status indicator light on the back of each module makes it simple to identify any units that need exchanging.



Detachable power unit

Each module's power unit can be easily detached via a simple locking knob, with no special tools needed.



Sony Virtual Production Tool Set

The Virtual Production Tool Set is a pair of software applications, the Colour Calibrator and the Camera and Display Plugin, that improve the virtual production workflow for broadcast and cinema – making it easier to get predictable, high-quality results.

Colour Calibrator for accurate Colour reproduction

Colour Calibrator is a Windows application that is specially tuned to our VENICE, VENICE 2, BURANO, FR7, and HDC-F5500/5500V/5500/3500V/3500 cameras, so you can ensure that the Colours you visualize before shoot day match the Colours that appear in your dailies.

As of Ver.2.0, focus is on Sony's high-end cinema and studio cameras; other non-Sony cameras will be included in Ver.3.0.



Camera and Display Plugin for better Pre-visualisation and on-set shooting

Moiré alert

Transfer the defined parameters to your physical camera, preserving your creative vision.

By combining technical information cameras and LED pitch information, it can automatically predict when aliasing is most likely and alert you during both Pre-visualisation and on-set shooting.

Get the most accurate simulation with the Crystal LED series, including the VERONA and CAPRI. It can even detect moiré patterns that are not visible to the naked eye.



Off-axis colour shift compensation*

Changing camera angles relative to the LED wall can cause shifts in colour seen by the camera that require additional adjustments during post-production. Off-axis colour shift compensation intelligently recognises the camera position and angle in relation to the LED wall in real time, automatically correcting colour shifts to significantly reduce additional correction work in post-production.

* Off-axis Colour shift compensation will be available in Ver.3.0 as a exclusive function for SONY Crystal LED.



Off-axis Colour shift compensation:
OFF



Without off-axis colour shift compensation

Colour changes caused by change in angle between camera and LED wall require correction in post-production.

Off-axis Colour shift compensation:
ON



With off-axis colour shift compensation

Colour of the displayed image is automatically adjusted in real time to compensate for changes in camera position and angle in relation to LED wall.

Display Cabinet



Specifications

Model	ZRD-VS25FB	ZRD-VS25FM
Supported Display Controller	Brompton Tessera SX40	Megapixel HELIOS
Pixel Pitch	2.50 mm	2.50 mm
Resolution (W x H)	200 x 200	200 x 200
Brightness (Max.)	1,500 cd/m ²	1,500 cd/m ²
Contrast Ratio (0 lx)	More than 1,000,000:1	More than 1,000,000:1
Viewing Angle (H/V)	160°/160°	160°/160°
Colour Gamut	Approx. 81 % (BT2020, Δu'v' coverage) Approx. 98 % (DCI-P3, Δu'v' coverage) Approx. 151 % (sRGB, Δu'v' area)	Approx. 81 % (BT2020, Δu'v' coverage) Approx. 98 % (DCI-P3, Δu'v' coverage) Approx. 151 % (sRGB, Δu'v' area)
Refresh Rate	7,680Hz	7,680Hz
Signal Interface	1 in 1 out (2 x RJ45)	1 in 1 out (2 x RJ45)
Operation Temperature / Operation Humidity	0°C to 40°C (32°F to 104°F) / 20 to 80 % (No condensation)	0°C to 40°C (32°F to 104°F) / 20-80 % (No condensation)
Storage Temperature / Storage Humidity	-20°C to 60°C / 20 to 80 % (No condensation)	-20°C to 60°C / 20 to 80 % (No condensation)
Power Requirements	AC100-240 V, 50/60 Hz	AC100-240 V, 50/60 Hz
Power Consumption (Max.) Calibration mode: Off or Overdrive: On	approx. 165 W (TBD) (Pre-sqm: 660 W) (TBD)	approx. 165 W (TBD) (Pre-sqm: 660 W) (TBD)
Power Consumption (Calibrated 100 % brightness) Calibration mode: On	approx. 134 W (TBD) (Per-sqm: 536 W) (TBD)	approx. 134 W (TBD) (Per-sqm: 536 W) (TBD)
Power Consumption (Ave. 30 % brightness) Calibration mode: On	approx. 61 W (TBD) (Per-sqm: 244 W) (TBD)	approx. 61 W (TBD) (Per-sqm: 244 W) (TBD)
Dimensions (W x H x D)	500 x 500 x 93 mm (19 11/16 x 19 11/16 x 3 21/32 in)	500 x 500 x 93 mm (19 11/16 x 19 11/16 x 3 21/32 in)
Mass / Weight	Approx. 10.1 kg (22 lb 4.27 oz) (TBD) (Per-sqm: Approx. 40.4 kg) (TBD)	Approx. 10.1 kg (22 lb 4.27 oz) (TBD) (Per-sqm: Approx. 40.4 kg) (TBD)
Max. Self-stacking / Hanging	Max. 14 cabinets (7 m) / Max. 14 cabinets (7 m)	Max. 14 cabinets (7 m) / Max. 14 cabinets (7 m)
Application	Indoor	Indoor

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