

ZRD-1

Video Wall tileable display unit
featuring Crystal LED Ultrafine
Micro LED technology

Overview

The ultimate large-screen display solution: create incredible LED video walls on any scale

Build incredible visual presentation and display screens with the modular and scalable ZRD-1 Display Unit.

Multiple ZRD-1 Display Units can be 'tiled' seamlessly to create super-size displays of virtually any dimensions or aspect ratio, with exceptional image uniformity and no bezels or visible gaps between each modular panel.

Unique Sony Crystal LED Display technology creates spectacular large-scale video walls with unprecedented clarity and realism. Separate red, green and blue Ultrafine Micro LEDs allow 99% of the panel's surface area to be completely black. Exceeding the limits of conventional LED technology, this enables an extraordinarily high contrast ratio of over 1,000,000:1, with enormous colour range (140% of sRGB), plus a virtually 180 degree viewing angle and impressive 1000 nit brightness for immersive viewing in light or dark environments.

This solution brings the world's biggest ideas to life with awe-inspiring visuals in any environment - ranging from industrial product design and manufacturing to theme parks and museums, corporate boardrooms and lobbies, broadcast studios, retail showrooms and lecture theatres.

Operation also requires the ZRCT-100/ZRCT-200 Display

Controller (available separately).

All Crystal LED products are made in Japan. Crystal LED products are compliant with the Trade Agreements Act and accordingly, may be purchased by the United States Government.

Features

Super-high contrast

Unique to Sony, Crystal LED Display technology delivers an outstanding contrast ratio in excess of 1,000,000:1 for rich, deep blacks and sparkling highlights in any ambient lighting conditions.

Crystal LED Display Technology

Each ZRD-1 Display Unit features a matrix of red/green/blue LED elements, each measuring less than 0.003 sq mm. This allows a huge 99% of the display's area to be completely black, dramatically enhancing contrast compared with conventional surface-mount displays.

Wide colour space

Audiences can enjoy natural, rich colours and lifelike tones with an extra-wide native colour space that's 140% of sRGB.

High Brightness

Impressive 1000 nit brightness gives a spectacular showcase for your content in any viewing environment.

Smooth reproduction of fast-moving action

Unique pixel drive circuitry achieves an ultra-fast video response time with a 120Hz refresh rate - ideal for sports, concerts or training simulations requiring large-screen visuals with no delay or blur.

Wide 180 degree viewing angle

Isotropic luminescence ensures an extra-wide viewing angle of almost 180 degrees (horizontal/vertical), giving a clear,

uncompromised view for every audience member with no colour shift or brightness change.

Uniform image with no gaps or visible seams

The Display Unit's bezel-free design ensures no gaps or visible seams between multiple display units.

Create high-impact visual displays on any scale

Multiple ZRD-1 Display Units can be 'tiled' seamlessly to create impressive large-scale displays with virtually any dimensions or aspect ratio.

3D capable

The Crystal LED Display System can display smooth, immersive 3D content at up to 60p frame rate that's viewed by audience members wearing active 3D glasses.

Specifications

Display Unit	
Pixel Pitch	1.26mm
Black Area	>99% (Ratio of display area except lighting point area)
Unit Resolution (W x H)	320 x 360 (115,200 pixels)
Unit Size (W x H x D)	403.2 x 453.6 x 100 mm (15 7/8 x 17 7/8 x 4 in)
Unit Mass	10.0 kg
Brightness (nit =	

cd/m ²)	Maximum 1,000
Contrast Ratio	more than 1,000,000:1
Viewing Angle	Almost 180°(H/V)
Display Native Color Space	140% of sRGB
Refresh Rate	100Hz / 120Hz
Signal Interface	1 in 1 out (2 x RJ45) (Unit-Controller or Unit-Unit)
Power Requirements	AC 200-240V, 50/60 Hz, Single Phase
Maximum Power Consumption (per Unit)	200 W
Application	Indoor