

ADN-8126
JJTRON Display System

JJTRON



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SONY[®]

The JJTRON

Display System from Sony - the brighter way to advertise!

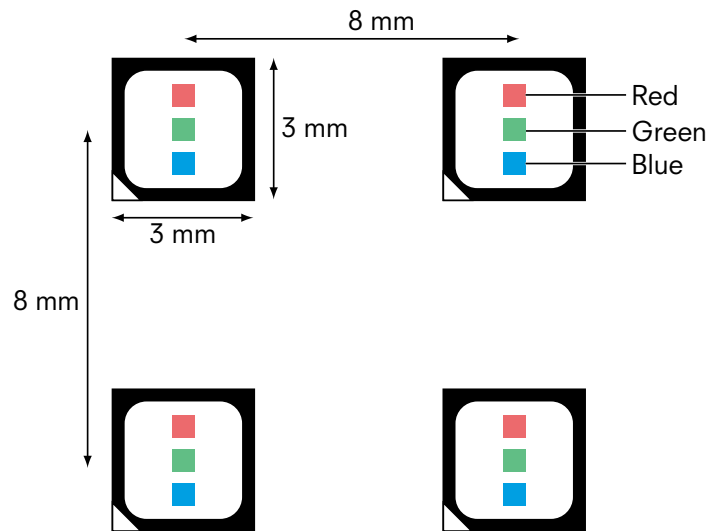
Combining the latest in signal processing and LED technology, this new display medium brings your advertising to life. Gone are boring, stationary billboards and posters. Now you can use bright, eye-catching moving visuals for maximum impact in communicating with your customers.

Use the JJTRON Display System for information displays and take advantage of Sony expertise in high-quality image reproduction. The bright LED screen and signal processing unit are self-contained in one unit, so just connect your JJTRON to a wide range of outstanding Sony audio/video products for a most impressive display.

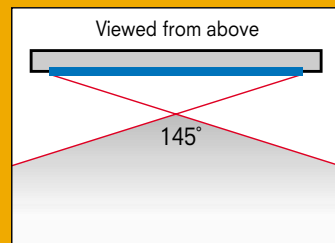
Features

Pixel Configuration

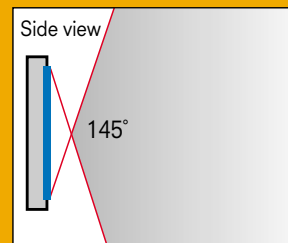
High brilliance is achieved with the use of the latest development in 8 mm pitch Surface Mounted Device type LEDs, with each pixel made up of individual Red, Green and Blue LEDs. This enables the JJTRON to present pictures of high quality even when viewed at close range - an essential feature for advertising in a limited indoor space.



A high degree of uniformity and a wide viewing angle are other distinguishing features of this device.



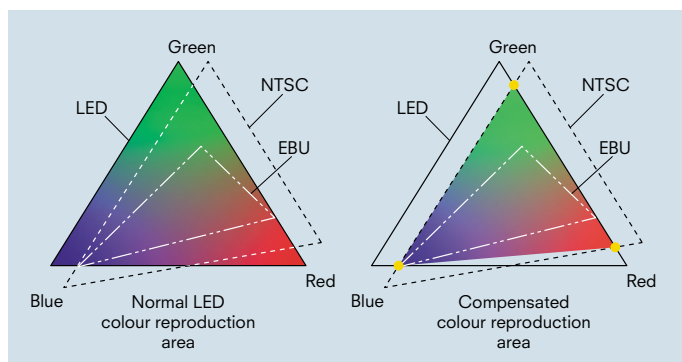
Horizontal viewing angle



Vertical viewing angle

Colour Compensation

The colour compensation circuit developed by Sony provides improved colour reproduction. It compensates for unnatural colour reproduction to create the image with more natural colour. The colour reproduction area can be chosen according to use from LED, NTSC and EBU.



Partial 12-bit Digital Processing (1024 colour gradation)

The 12-bit image processing technology is adopted in the signal processing unit of the JJTRON, substantially reducing digital noise that can be particularly noticeable when reproducing areas of low luminance. As a result, the images are stable and noise-free.

Control Unit and Inputs

All functions of the JJTRON are easily controlled with the supplied wired remote controller. Wireless operation is also available with an optional remote control receiver installed. Certain basic functions can also be controlled from the control panel on the cabinet. Various adjustments and settings can be made via the on-screen menu, and RS-422 interface is also provided.

The JJTRON is equipped with a double scanned RGB input, and an optional video board is available for system flexibility.

RM-JJ100 Remote Controller (Supplied)

Supplied wired Remote Controller for JJTRON. Infrared operation is available with the optional Remote Control Receiver RM-PJ10.

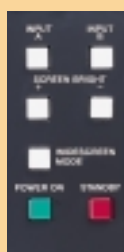


RM-PJ10 Remote Control Receiver (Optional)



BKJ-100 JJTRON Accessory Board (Optional)

Video input board for JJTRON. Composite, YUV, RGB inputs.



Control panel

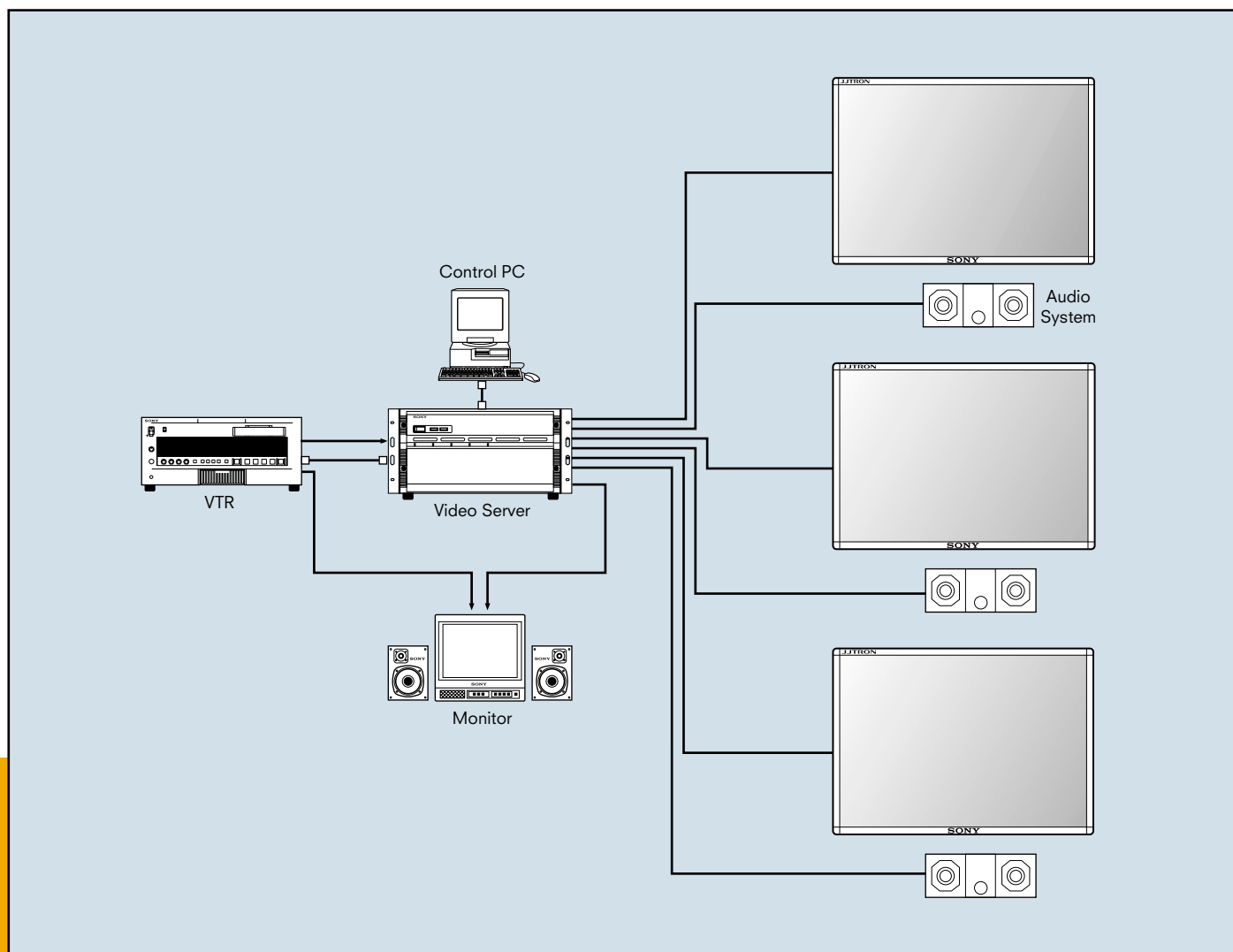


Connector panel

Ad-board system

JJTRON centred advertising solution from Sony

All the visuals are stored in the video server, which sends the pictures to the JJTRON displays.



Features

Bright Display for Indoor Installations

The JJTRON has a brightness level of 1,000 cd/m², making it ideal for indoor applications - even in conditions of indirect sunlight. The brightness ratio is approximately 3 to 5 times more than that of typical indoor displays. With its bright, eye-catching moving images the JJTRON is a powerful advertising and promotional tool for your organisation.

High Contrast, High Reliability

The JJTRON provides high contrast and reliability with its newly developed "Black Mask". This Black Mask surrounds the individual LED elements to maximise picture contrast, and the picture quality is unsurpassed in bringing sharp, vivid colours to large screen display systems. In addition the Black Mask helps to protect LED elements from mechanical damage, and as LEDs are also prone to damage from static electricity, a stainless steel plate is positioned behind the Black Mask to conduct any static charges to ground the unit*.

*Patent pending

All-in-one Unit Design

The JJTRON is the first LED full colour, large screen display in which the screen, processor, and connectors are all in one package. Therefore, this 126-inch* large-screen display is easy to handle in all situations: shipping, transporting and installing. All you have to do is plug in a power source and a signal source and you are ready to show great visuals. The JJTRON is a "Plug & Play System", designed to simplify all the complex set-up operations.

*Viewable area, measured diagonally.

Lightweight and Thin

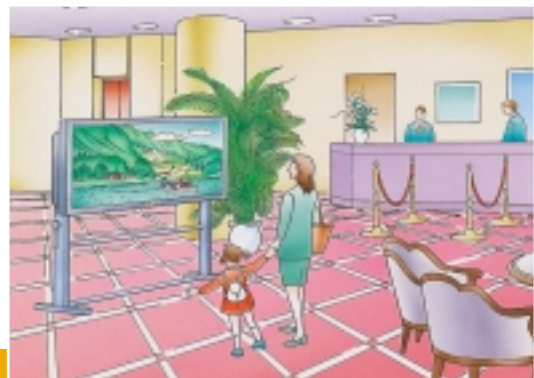
The JJTRON is both lightweight, approx. 310 kg (64 kg/m²) and thin - just 27 cm deep. Thus, superb images can be enjoyed with minimal space requirement.

And, with installation handles equipped on the rear side, the JJTRON can be mounted from the ceiling, on a wall, or used in a stand-alone style.

Installation Examples



Wall mount



Stand-alone



Hanging

Specifications

Picture performance

Device	Full colour one-chip SMD type LED
Pixel pitch	8 mm x 8 mm
Viewable picture area (W/H)	2560 x 1920 mm 3200 mm / 126 inches (measured diagonally)
Aspect ratio	4:3
Colour system	NTSC/PAL/SECAM automatic switching (When BKJ-100 is attached.)
Brightness	1,000 cd/m ² (white peak initial value)
Pixel density	15,625 pixels/m ²
Colour temperature	7,000 K
Signal processing	partial 10 bit
Viewing angle	Horizontal 145° Vertical 145°

General

Dimensions (W/H/D)	2700 x 2060 x 270 mm (approx)
Current consumption	Max. 30 A
Power requirements	AC 200 to 240 V ±10 %, 50/60 Hz
Mass	310 kg (approx)
Waterproofing	Not applicable (indoor use only)
Operating temperature	0 to 40 °C
Operating humidity	35 to 85 % (without condensation)
Storage temperature	-20 to 60 °C
Storage humidity	10 to 90 % (without condensation)

Supplied accessories

Remote controller RM-JJ100, Remote control cable (15 m),
Extension cable for RS-422 (0.3 m x 2)

Regulation compliance

UL (1950), c-UL (CSA C 22.2 No. 950), TÜV (EN 60950), FCC Class A,
IC Class A, CE Class B, C-Tick, VCCI Class A, JEIDA

Input

INPUT A	
Frequency (fH/fV)	31.25 kHz/50 Hz, 31.5 kHz/60 Hz
Double scanned RGB	BNC x 5
R:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
G:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
Sync on G:	1 Vp-p ±2 dB sync negative, 75 Ω terminated
B:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
HD/COMP SYNC	
Composite sync:	1 to 4 Vp-p sync positive/negative, 75 Ω terminated
Horizontal sync:	1 to 4 Vp-p sync positive/negative, 75 Ω terminated
VD	
Vertical sync:	1 to 4 Vp-p sync positive/negative, 75 Ω terminated

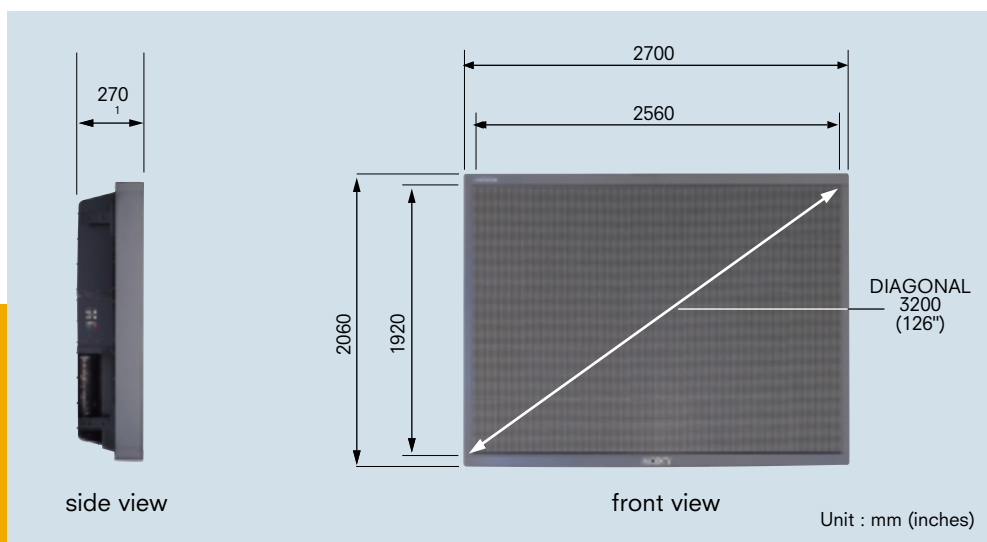
Remote

Control S IN/OUT	Mini jack, 5 Vp-p
RS-422 IN/OUT	D-sub 9-pin (female)

INPUT B (When BKJ-100 is attached)

Frequency (fH/fV)	15.625 kHz/50 Hz, 15.75 kHz/60 Hz
Composite video	BNC x 1, 1 Vp-p, sync negative, 75 Ω terminated
Analogue RGB/YUV BNC x 5	
R/R-Y:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
G:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
Sync on G/Y:	1 Vp-p ±2 dB sync negative, 75 Ω terminated
B/B-Y:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
HD/COMP SYNC	
Composite sync:	1 to 4 Vp-p sync positive/negative 75 Ω terminated
Horizontal sync:	1 to 4 Vp-p sync positive/negative, 75 Ω terminated
VD	
Vertical sync:	1 to 4 Vp-p sync positive/negative, 75 Ω terminated

Dimensions



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