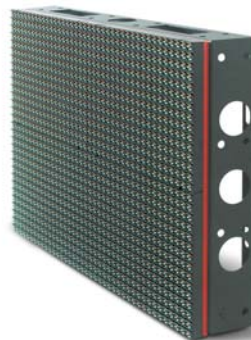


DSFG

absolutely brilliant



limboLED™

Ultraslim & Lightweight Curvable Display
with Front Accessibility & Pixel Level Calibration Technology





product features

limboLED™

Ultraslim & Lightweight Curvable Display with Front Accessibility & Pixel Level Calibration Technology

ULTRASLIM & LIGHTWEIGHT
INSTALLATION FRIENDLY

DSFG **limboLED™** comes in a striking red super thin and slim curvy cabinet. With weights between 6.5kg and 8.5kg, it is among the industry's lightest thereby making it extremely easy to install.

FRONT SERVICEABILITY
FAST & EASY

If you ever need to service or replace panels on your **limboLED™** video wall, it can be done quickly and easily with just two hex wrenches. Individual cabinet can be serviced from the front without having to disassemble the entire video wall.

FIRE SAFETY CABINET
SAFE & SECURE

limboLED™ is designed with fire safety in mind. Its cabinet is moulded from flame retardant ABS plastic. Built-in firewall retaining feature ensures all assemblies are securely mounted onto a specially designed aluminum bracket and will not fall apart if the screen catches fire.

EGG-BOX CARRIER
MODULAR & COST-EFFECTIVE

limboLED™'s cabinet is separately mounted on an "Egg-Box" carrier made of steel and powder coated in matte black. This innovative concept is modular and cost-effective as the clients can now choose to fabricate these "Egg-Box" carriers locally resulting in great freight cost savings.

PIZZA-BOX STOCK CONTROL
EZ STORAGE & INVENTORY

Our minimalist "Pizza-Box" design approach yields a smarter and cleaner product. This allows **limboLED™** to be priced more competitively, and is also easy on storage and inventory.

FLEXI-SIZES SCREEN CONFIGURATION
DESIGN FLEXIBILITY

Experience greater effectiveness, unparalleled flexibility and ease-of-design with **limboLED™**'s common screen size design concept. Our strategic partners can now present their video wall display solutions to their clients more easily without having to frequently communicate with the factory.

PIX-LEVEL CALIBRATION
BRIGHT & COLOURFUL

Pixel level colour and brightness calibration to ensure images are precisely rendered. All panels are pre-calibrated before leaving the factory to ensure consistent colour gamut and brightness regardless of production batch.

ULTRA BLACK LED TECHNOLOGY

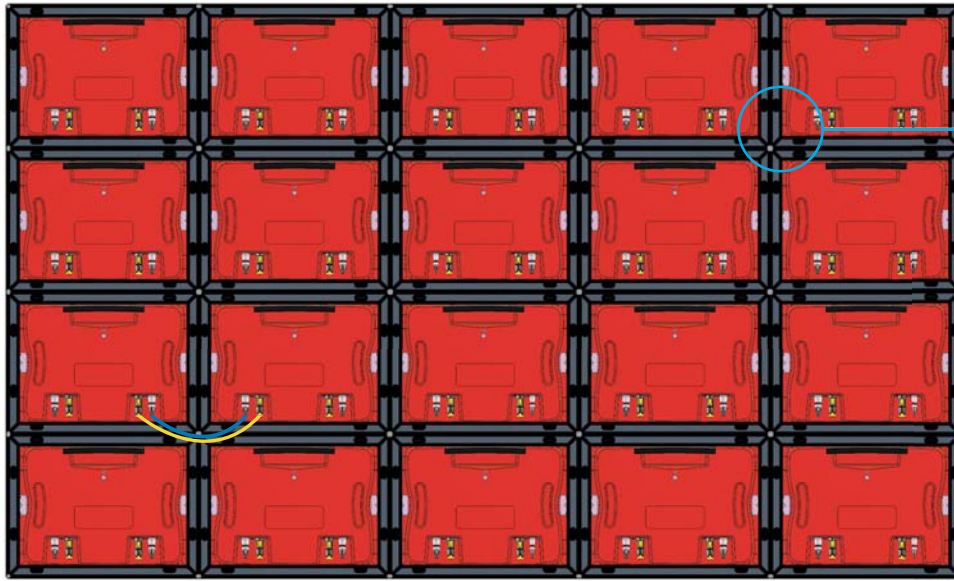
DSFG **limboLED™** indoor series* come with Ultra Black LED that delivers fantastic high contrast and black levels. Using special black silicon resin instead of normal white epoxy, each LED outputs the darkest black and the brightest luminance levels possible.

*Applies to indoor series only

Designed with the fixed installation market in mind...



installation details

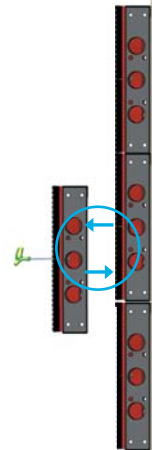
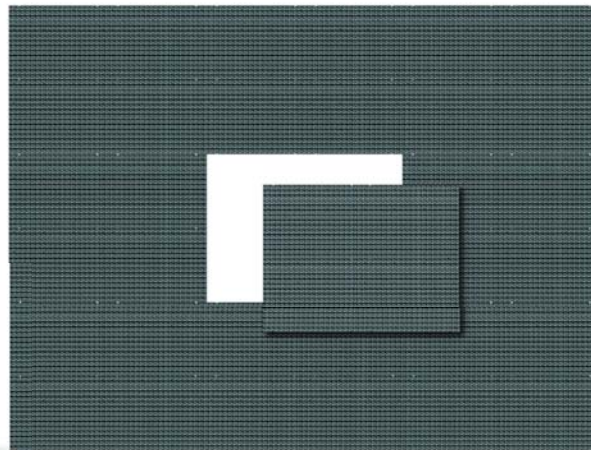


Inter-cabinet Connection
"Egg-Box" carriers are connected together using standard M10 bolts and nuts

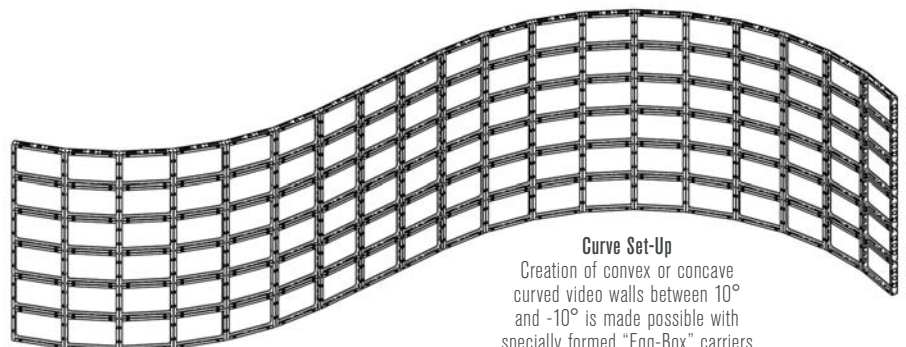
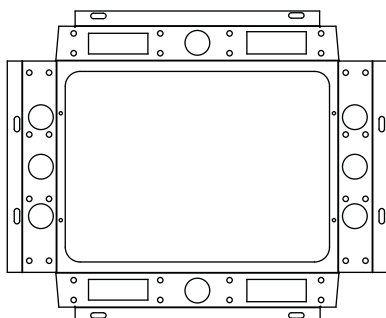
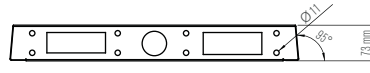


Easy Cabinet-to-"Egg-Box" Carrier Connection
Cabinets are quickly connected to "Egg-Box" carriers using 2 T-handle hex wrenches

Power Interconnect Cable Data Interconnect Cable

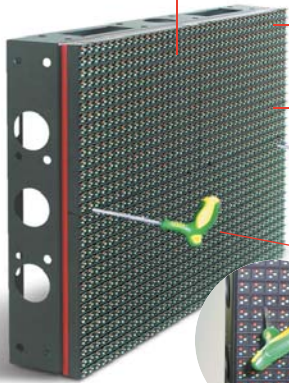


Front Accessibility
Faulty LED display is easily removed, repaired and replaced



Curve Set-Up
Creation of convex or concave curved video walls between 10° and -10° is made possible with specially formed "Egg-Box" carriers

Enhanced Contrast and Visual Performance
Ultra Black LED* that delivers true black



Pix-Level Calibration
Calibratable brightness and colour uniformity

High Refresh Rates
More than 1,200 Hz to provide static and flicker free display for TV camera recording

Cabinet-to-“Egg-Box” Carrier
Quick and easy latch fastening via hex wrench



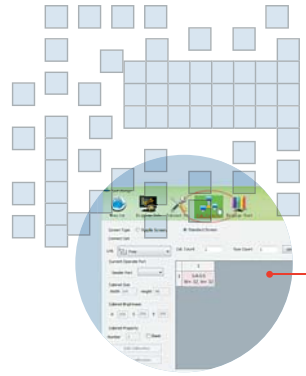
- Seamless connection between panels
- Front accessibility
- Wide and optimized viewing angles
- Fanless design enables silent operation
- Low power consumption



Advanced Image Processing Platform

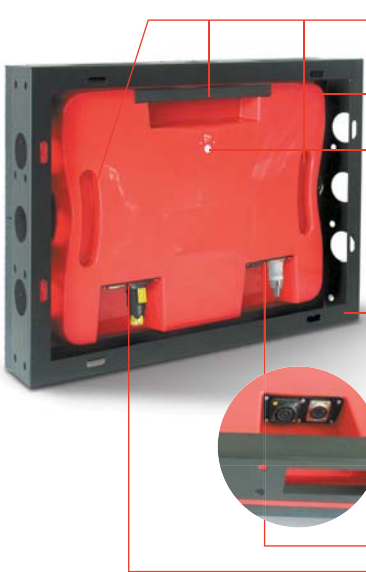
DSFG's powerful image control system includes a digitizer, receiver card and user-friendly Fore-G System Management Software for fast, trouble free set-up and configuration

- Allowing total control of your display content at a simple mouse click
- Acceptance of a multitude of data and video sources
- Compatibility with all resolutions and aspect ratios
- Scaling/compressing capability



Fore-G System Management Software

Forward compatible Windows based set-up software provides easy to navigate environment and is packed with diagnostic features like Failure Notification, Thermostatic Monitoring, Data Transmission Verification, etc



Ergonomic Recessed Handles

High Impact and Flame Retardant ABS Plastic Casing

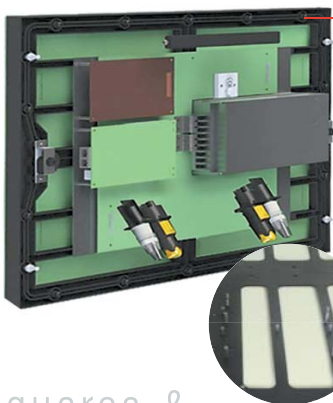
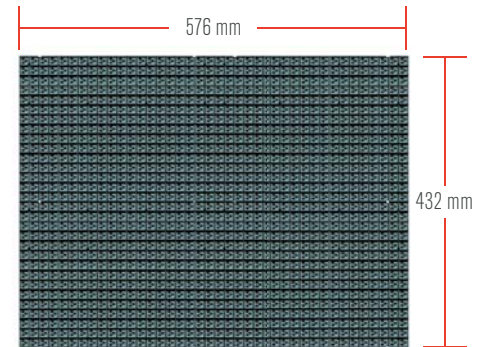
Test Button
Allows RGBW preview testing without connecting to any PC or external data source

“Egg-Box” Carrier
To house and to protect the cabinet as well as to form convex or concave curved video walls with angles between 10° and -10°



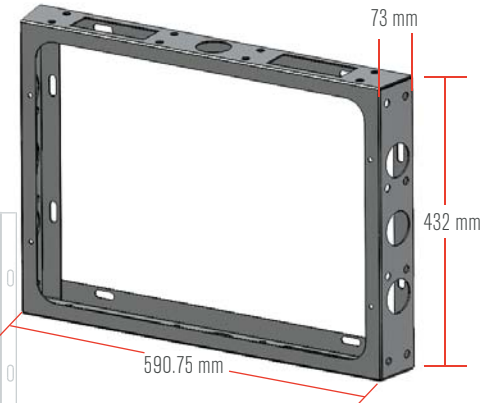
Power Ports and Data Ports

Cabinet Details



Built-In Fire Safety
Firewall retaining feature ensures all assemblies are securely mounted onto a specially designed aluminum bracket

“Egg-Box” Carrier Details



squares & concourses

auditoriums
petrol stations

shopping malls
stadiums

public transist areas

*Applies to indoor series only

limboLED™



Material Parameters	Limbo-6	Limbo-8	Limbo-10	Limbo-10	Limbo-14	Limbo-16	Limbo-20	Limbo-24
Pixel Pitch	6.0 mm	8.0 mm	10.28 mm	10.28 mm	14.4 mm	16.0 mm (V) 16.6 mm (H)	16.0 mm (V) 19.6 mm (H)	24 mm
Pixel Matrix Per Cabinet (W x H)	96 x 72	72 x 54	56 x 42	56 x 42	40 x 30	36 x 26	28 x 22	24 x 18
Pixel Matrix Per Module (W x H)	48 x 36	36 x 27	28 x 21	28 x 21	20 x 15	18 x 13	14 x 11	12 x 9
Pixel Density	27,777/m ²	15,625/m ²	9,452/m ²	9,453/m ²	4,823/m ²	3,906/m ²	2,500/m ²	1,736/m ²
Drive Mode	1/8	1/4	1/4	1/4	1/2	1/1	1/1	1/1
Cabinet Size (mm)	576 (W) x 432 (H) x 76 (D)			576 (W) x 432 (H) x 76 (D)				
Module Size (mm)	288 (W) x 216 (H)			288 (W) x 216 (H)				
Module Quantity	4 pcs per panel			4 pcs per panel				
Cabinet Weight	6.5 kg			7.5 kg	8.5 kg			
Cabinet Material	ABS Plastic Enclosure with Internal Aluminum Support			ABS Plastic Enclosure with Internal Aluminum Support				
Maintenance Mode	Front Serviceability			Front Serviceability				
LED Type and Configuration	3-IN-1 SMD (PLCC Black Face/Full Black)			PLCC 6 3535	Oval LED 346			
LED Arrangement	1R 1G 1B (3 in 1)			1R 1G 1B				
Brightness	≥1,200 cd/m ² (Full Black), ≥1,800 cd/m ² Black Face			≥5,000 cd/m ²				
Viewing Angle	140°(H) / 140°(V)			110°(H) / 50°(V)				
Grey Scale	16 Bits Input			16 Bits Input				
Display Colours	4.4 Trillion			4.4 Trillion				
Brightness Control	100 Levels			100 Levels				
Operation Power	AC 110/220V / 50~60 Hertz			AC 110/220V / 50~60 Hertz				
Max. Power Consumption	120 W per panel			140 W per panel	170 W per panel			
Average Power Consumption	40 W perpanel			50 W per panel	60 W per panel			
Control Mode	Synchronous Display and Controller PC via DVI			Synchronous Display and Controller PC via DVI				
Video Frame Rate	60 Hertz – 85 Hertz			60 Hertz – 85 Hertz				
Display Refresh Rate	>1,200 Hertz			>1,200 Hertz				
Gamma Correction	16 Bits			16 Bits				
Input Types Supported	Composite Video, S-Video, DVI, CATV			Composite Video, S-Video, DVI, CATV				
Control Distance	UTP CAT5E Cable–100 m; Multi-Mode Fiber–500 m; Single-Mode Fiber–10 km			UTP CAT5E Cable–100 m; Multi-Mode Fiber–500 m; Single-Mode Fiber–10 km				
VGA Mode Supported	800 x 600, 1,024 x 768, 1,280 x 1,024, 1,600 x 1,200			800 x 600, 1,024 x 768, 1,280 x 1,024, 1,600 x 1,200				
Brightness Correction	Dot by Dot, Module by Module, Cabinet by Cabinet			Dot by Dot, Module by Module, Cabinet by Cabinet				
Operating Humidity Range	10% to 90% RH			10% to 90% RH				
Operating Temperature Range	-20°C to + 70°C			-20°C to + 70°C				
Screen Uniformity Correction	Pixel Calibrated, Brightness and Colour, 9 point			Pixel Calibrated, Brightness and Colour, 9 point				
Pixel Calibration	Individual Pixel Calibrated			Individual Pixel Calibrated				
Ingress Protection (Front/Rear)	IP 43 / IP 43			IP 65 / IP 65				
Application	Indoor			Outdoor				

Compliance

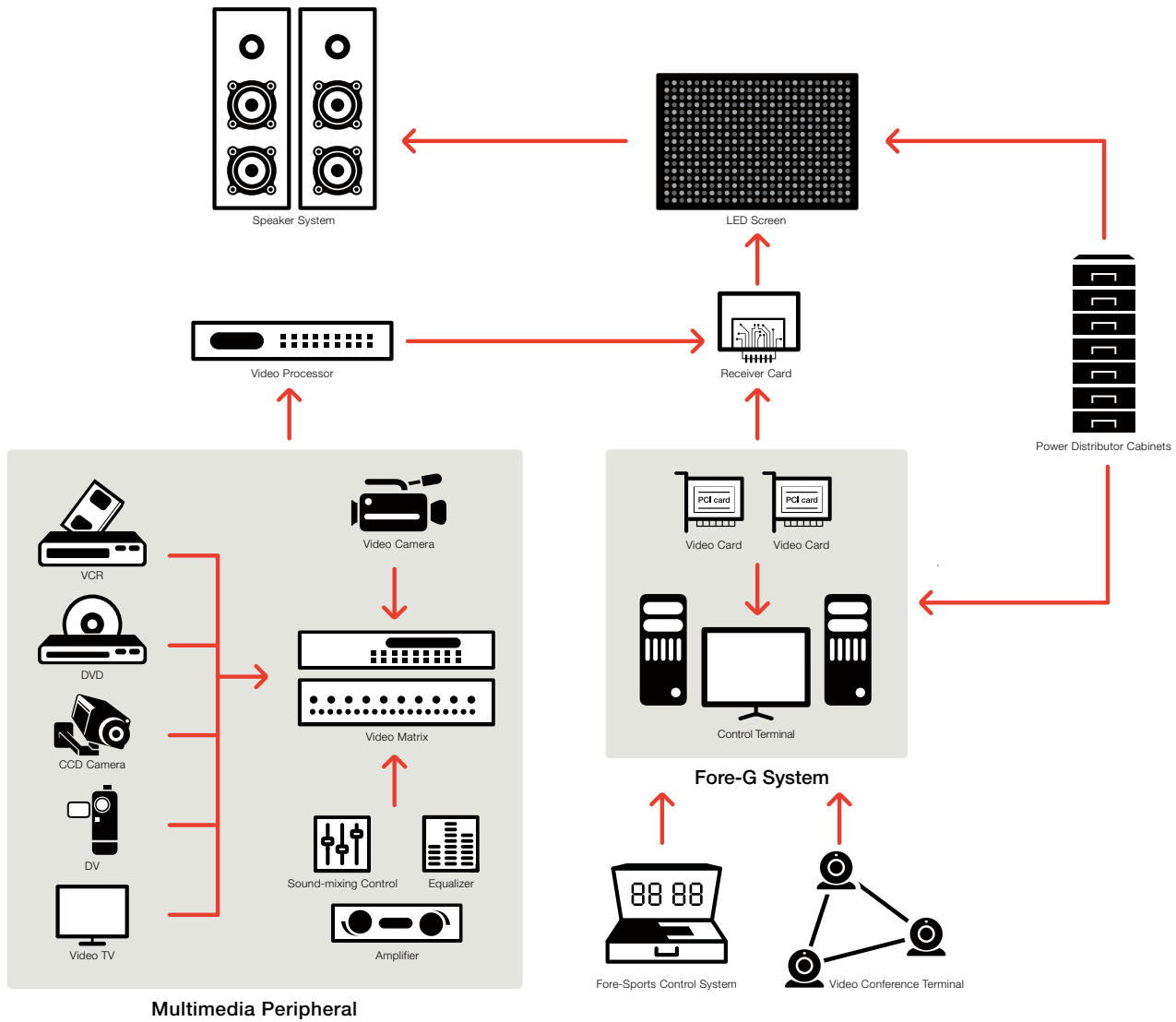


■ Indoor ■ Outdoor

Features and specifications are subject to change without prior notice.

* Please specify when placing order. ** 24 mm and 32 mm pixel pitch available upon request. Terms and conditions apply.

Network Multimedia System Connections



ACCESSORIES



Main Data Cable
• Length: 15 m



Data Interconnect Cable
• Length: 0.6 m



LED External Sending Box*



"Egg-Box" Carrier*

- AISI 1020 cold rolled steel
- Powder coated Matte black
- 590.75 mm x 432 mm x 73 mm
- Each frame holds 1 cabinet



Main Power Cable
• Length: 15 m
• Supports up to 8 cabinets
(With maximum power)



Power Interconnect Cable
• Length: 0.6 m



T-shaped Hex Wrench

* Non-standard accessories are available as separately orderable items to complement our LED display solutions



Complies with the essential standard/requirements of:



DS FOREGROUND

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