



# FORTIS Mesh

INDOOR & OUTDOOR TRANSPARENT LED DISPLAY



## PIXEL PITCH P10-P31.25

### CREATIVE DIGITAL SIGNAGE

The FORTIS Mesh by LED Studio is the ultimate solution for creating captivating and engaging digital installations while maintaining the natural flow of ambient light into your venue. This innovative mesh design is versatile, offering a range of pitch options to suit your specific needs.

Whether you are looking for engaging digital signage, or immersive anamorphic visuals, LED Studio's FORTIS Mesh is for you.

### Key Features



IP67



Wide Viewing Angles



Lightweight Design



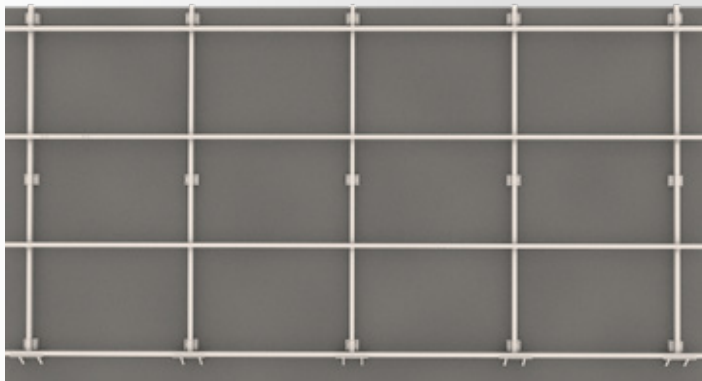
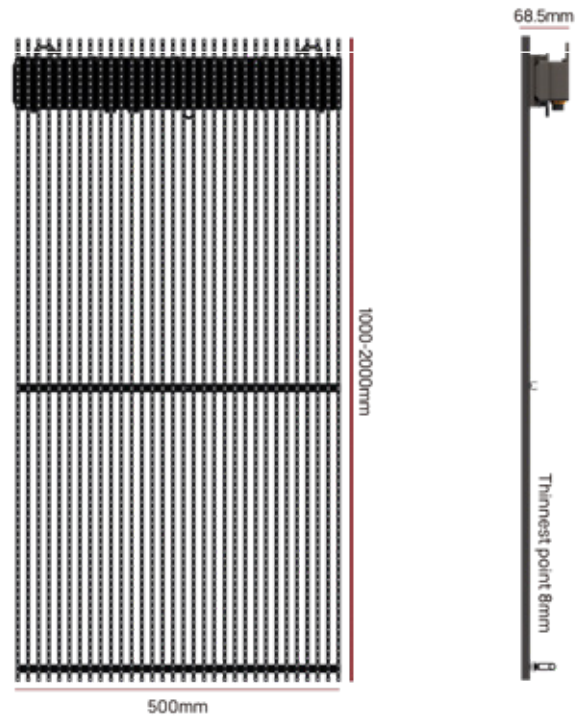
Custom Colour Masking



Energy Efficient



Simplified Install & Service



### Custom Framework

The mounting framework of the FORTIS Mesh can be customised to fit any architectural structure, ensuring seamless integration with your venue's design.

Additionally, the lightweight cabinet design minimises the amount of metal used, resulting in a more transmissive and visually appealing outcome.

Contact us: +44 (0)20 3832 9500

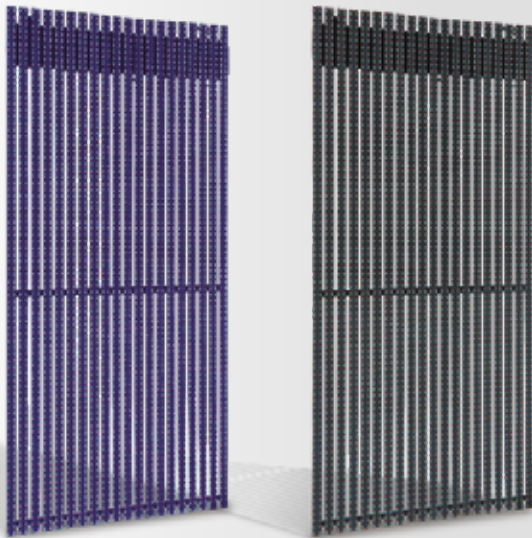
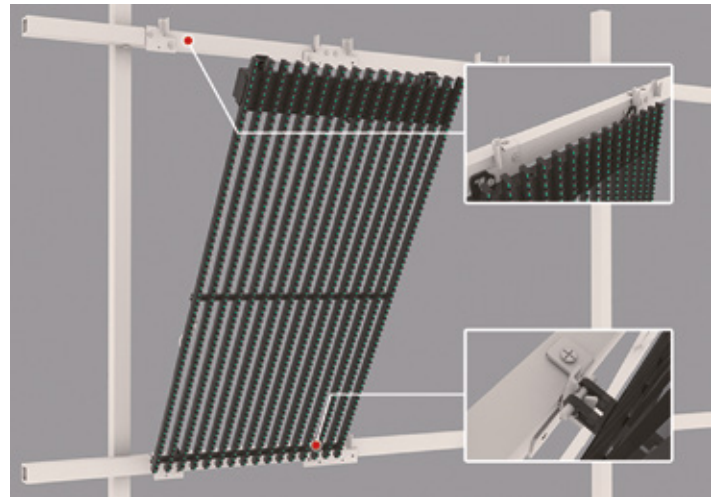
[www.theledstudio.com](http://www.theledstudio.com)

Version 11

LEDstudio

## Simplified Install & Maintenance

The FORTIS Mesh features a simple plug-and-play system with front maintenance access, allowing for quick and easy swap outs. This design ensures that any maintenance or updates can be performed swiftly, minimising downtime and keeping your digital installations running smoothly.



## Custom Masking

Customize your FORTIS Mesh masking so that when the screen is off, it seamlessly blends into the surrounding architecture.

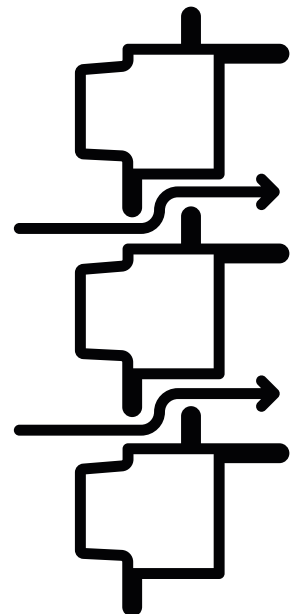
You can specify any RAL color, ensuring a perfect match with the aesthetics of your venue, creating a harmonious and unobtrusive appearance.

## Reduced Wind Resistance

For large-scale outdoor installations, wind resistance is a crucial factor to consider. The FORTIS Mesh design expertly channels airflow, which not only reduces drag but also enhances the cooling of the LEDs.

This innovative approach ensures that the structure remains stable and secure even in windy conditions, while also preventing overheating of the LEDs, thereby extending their lifespan and maintaining optimal performance.

By addressing both aerodynamic and thermal challenges, the FORTIS Mesh provides a reliable and efficient solution for impressive and durable outdoor digital displays.



# SPECIFICATIONS

	(V/H) 7DS-N	(V/H) 10DS-N	(V/H) 10S-N	(V/H) 12S-N	(V/H) 15S-N
Panel Type	Fixed installation type				
Panel Size (W+H+D)	500x1,000x66mm(V)   1,000x500x66mm(H) 197x394x26in(V)   394x197x26in(H)				
Brightness (Nits)	6,000 cd/m <sup>2</sup>				
Transparency Rate	62%	70%	40%	52%	62%
Led Type	SMD				
Lifetime (Hrs)	≤100,000				
Viewing Angle (H/V)	140°/140°				
Panel Resolution	32x128(V) / 128x32(H)	25x100(V) / 100x25(H)	50x100(V) / 100x50(H)	40x80(V) / 80x40(H)	32x64(V) / 64x32(H)
Pixels Per Square Meter	8,192 Pixels/m <sup>2</sup>	5,000 Pixels/m <sup>2</sup>	10,000 Pixels/m <sup>2</sup>	6,400 Pixels/m <sup>2</sup>	4,096 Pixels/m <sup>2</sup>
Physical Pitch	15.6 / 7.8mm	20 / 10mm	10 / 10mm	12.5 / 12.5mm	15.6 / 15.6mm
Pixel Configuration	1 Red 1 Green 1 Blue				
Input Voltage	110VAC / 220VAC				
Input Frequency	50-60Hz				
Operation Temperature (°C / °F)	-25 ~ +50 / -13 ~ +122				
Protection Grade	IP67				
Certification	CE, EMC, CCC				
Processing	True 16 Bit				
Refresh Rate (Hz)	1,920Hz / 3,840 Hz				
Brightness Control	100 Levels				
Drive Method	Current static driver				
Max Power Consumption	700W/m <sup>2</sup>   65W/ft <sup>2</sup>				
Average Power Consumption	240W/m <sup>2</sup>   22.3W/ft <sup>2</sup>				
Weight of Panel	7kg (14kg/m <sup>2</sup> ) 15.4lbs (31lbs/m <sup>2</sup> )	6.3kg (12.6kg/m <sup>2</sup> ) 13.9lbs (27.8lbs/m <sup>2</sup> )	9.5kg (19kg/m <sup>2</sup> ) 20.9lbs (41.9lbs/m <sup>2</sup> )	8kg (16kg/m <sup>2</sup> ) 17.6lbs (35.2lbs/m <sup>2</sup> )	6.9kg (13.8kg/m <sup>2</sup> ) 15.2lbs (30.4lbs/m <sup>2</sup> )

	(V/H) 12DS-L	(V/H) 12DP-L	(V/H) 15DP-L	(V/H) 31DP-L	(V/H) 20P-L	(V/H) 25P-L	(V/H) 31P-L
Panel Type	Fixed installation type						
Panel Size (W+H+D)	500x1,500x68.5mm(V)   1,500x500x68.5mm(H) 197x591x27in(V)   591x197x27in(H)						
Brightness (Nits)	6,000 cd/m <sup>2</sup>	10,000 cd/m <sup>2</sup>					
Transparency Rate	48%	48%	59%	79%	35%	48%	59%
Led Type	SMD	DIP					
Lifetime (Hrs)	≤100,000						
Viewing Angle (H/V)	140°/140°	120°/60°					
Panel Resolution	20x80(V) / 80x20(H)	20x120(V) / 120x20(H)	16x96(V) / 96x16(H)	8x48(V) / 48x8(H)	25x75(V) / 75x25(H)	20x60(V) / 60x20(H)	16x48(V) / 48x16(H)
Pixels Per Square Meter	3,200 Pixels/m <sup>2</sup>	3,200 Pixels/m <sup>2</sup>	2,048 Pixels/m <sup>2</sup>	512 Pixels/m <sup>2</sup>	2,500 Pixels/m <sup>2</sup>	1,600 Pixels/m <sup>2</sup>	1,024 Pixels/m <sup>2</sup>
Physical Pitch	25 / 12.5mm	25 / 12.5mm	31.25 / 15.6mm	62.5 / 31.25mm	20 / 20mm	25 / 25mm	31.25 / 31.25mm
Pixel Configuration	1 Red 1 Green 1 Blue						
Input Voltage	110VAC / 220VAC						
Input Frequency	50-60Hz						
Operation Temperature (°C / °F)	-25 ~ +50 / -13 ~ +122						
Protection Grade	IP67						
Certification	CE, EMC, CCC						
Processing	True 16 Bit						
Refresh Rate (Hz)	3,840 Hz						
Brightness Control	100 Levels						
Drive Method	Current static driver						
Max Power Consumption	700W/m <sup>2</sup>   65W/ft <sup>2</sup>	450W/m <sup>2</sup>   41.8W/ft <sup>2</sup>					
Average Power Consumption	240W/m <sup>2</sup>   22.3W/ft <sup>2</sup>	150W/m <sup>2</sup>   13.9W/ft <sup>2</sup>					
Weight of Panel	6.6kg (13.2kg/m <sup>2</sup> ) 14.6lbs (29.1lbs/m <sup>2</sup> )	10.5kg (14kg/m <sup>2</sup> ) 23.1lbs (30.9lbs/m <sup>2</sup> )	8.8kg (11.7kg/m <sup>2</sup> ) 19.4lbs (25.8lbs/m <sup>2</sup> )	7.5kg (10kg/m <sup>2</sup> ) 16.5lbs (22lbs/m <sup>2</sup> )	13kg (17.3kg/m <sup>2</sup> ) 28.7lbs (38.1lbs/m <sup>2</sup> )	11kg (14.7kg/m <sup>2</sup> ) 24.3lbs (32.4lbs/m <sup>2</sup> )	9kg (12kg/m <sup>2</sup> ) 19.8lbs (26.5lbs/m <sup>2</sup> )

Contact us: +44 (0)20 3832 9500

[www.theledstudio.com](http://www.theledstudio.com)

Version 11

 LEDstudio



# SPECIFICATIONS

	(V/H) 10S-T	(V/H) 12S-T	(V/H) 12P-T	(V/H) 15S-T	(V/H) 15P-T
Panel Type	Fixed installation type				
Panel Size (W+H+D)	500x1,000x68.5mm(V)   1,000x500x68.5mm(H) 197x394x27in(V)   394x197x27in(H)				
Brightness (Nits)	6,000 cd/m <sup>2</sup>				
Transparency Rate	15%	24%	20%	25%	22%
Led Type	SMD	SMD	DIP	SMD	DIP
Lifetime (Hrs)	≤100,000				
Viewing Angle (H/V)	140°/140°	140°/140°	120°/60°	140°/140°	120°/60°
Panel Resolution	50x100(V) / 100x50(H)	40x80(V) / 80x40(H)	40x120(V) / 120x40(H)	32x64(V) / 64x32(H)	32x96(V) / 96x32(H)
Pixels Per Square Meter	10,000 Pixels/m <sup>2</sup>	6,400 Pixels/m <sup>2</sup>	6,400 Pixels/m <sup>2</sup>	4,096 Pixels/m <sup>2</sup>	4,096 Pixels/m <sup>2</sup>
Physical Pitch	10 / 10mm	12.5 / 12.5mm	12.5 / 12.5mm	15.6 / 15.6mm	15.6 / 15.6mm
Pixel Configuration	1 Red 1 Green 1 Blue				
Input Voltage	110VAC / 220VAC				
Input Frequency	50-60Hz				
Operation Temperature (°C / °F)	-25 ~ +50 / -13 ~ +122				
Protection Grade	IP67				
Certification	CE, EMC, CCC				
Processing	True 16 Bit				
Refresh Rate (Hz)	1,920Hz / 3,840 Hz				
Brightness Control	100 Levels				
Drive Method	Current static driver				
Max Power Consumption	700W/m <sup>2</sup>   65W/ft <sup>2</sup>	700W/m <sup>2</sup>   65W/ft <sup>2</sup>	450W/m <sup>2</sup>   41.8W/ft <sup>2</sup>	700W/m <sup>2</sup>   65W/ft <sup>2</sup>	450W/m <sup>2</sup>   41.8W/ft <sup>2</sup>
Average Power Consumption	240W/m <sup>2</sup>   22.3W/ft <sup>2</sup>	240W/m <sup>2</sup>   22.3W/ft <sup>2</sup>	150W/m <sup>2</sup>   13.9W/ft <sup>2</sup>	240W/m <sup>2</sup>   22.3W/ft <sup>2</sup>	150W/m <sup>2</sup>   13.9W/ft <sup>2</sup>
Weight of Panel	7.2kg (14.4kg/m <sup>2</sup> ) 15.9lbs (31.7lbs/m <sup>2</sup> )	7kg (14kg/m <sup>2</sup> ) 15.4lbs (31lbs/m <sup>2</sup> )	14.2kg (18.9kg/m <sup>2</sup> ) 31.3lbs (41.7lbs/m <sup>2</sup> )	6.6kg (13.2kg/m <sup>2</sup> ) 14.6lbs (29.1lbs/m <sup>2</sup> )	14kg (18.7kg/m <sup>2</sup> ) 30.9lbs (41.2lbs/m <sup>2</sup> )

	(V/H) 7DS-K	(V/H) 15S-K	(V/H) 15P-K	(V/H) 20P-K	(V/H) 25P-K	(V/H) 31P-K
Panel Type	Fixed installation type					
Panel Size (W+H+D)	500x1,500x68.5mm(V)   1,500x500x68.5mm(H) 197x591x27in(V)   591x197x27in(H)					
Brightness (Nits)	6,000 cd/m <sup>2</sup>			10,000 cd/m <sup>2</sup>		
Transparency Rate	36%	36%	36%	50%	60%	68%
Led Type	SMD			DIP		
Lifetime (Hrs)	≤100,000					
Viewing Angle (H/V)	140°/140°		140°/60°	120°/60°		
Panel Resolution	32x128(V) / 128x32(H)	32x64(V) / 64x32(H)	32x96(V) / 96x32(H)	25x75(V) / 75x25(H)	20x60(V) / 60x20(H)	16x48(V) / 48x16(H)
Pixels Per Square Meter	8,192 Pixels/m <sup>2</sup>	4,096 Pixels/m <sup>2</sup>	4,096 Pixels/m <sup>2</sup>	2,500 Pixels/m <sup>2</sup>	1,600 Pixels/m <sup>2</sup>	1,024 Pixels/m <sup>2</sup>
Physical Pitch	15.6 / 7.8mm	15.6 / 15.6mm	15.6 / 15.6mm	20 / 20mm	25 / 25mm	31.25 / 31.25mm
Pixel Configuration	1 Red 1 Green 1 Blue					
Input Voltage	110VAC / 220VAC					
Input Frequency	50-60Hz					
Operation Temperature (°C / °F)	-25 ~ +50 / -13 ~ +122					
Protection Grade	IP67					
Certification	CE, EMC, CCC					
Processing	True 16 Bit					
Refresh Rate (Hz)	3,840 Hz					
Brightness Control	100 Levels					
Drive Method	Current static driver					
Max Power Consumption	700W/m <sup>2</sup>   65W/ft <sup>2</sup>			450W/m <sup>2</sup>   41.8W/ft <sup>2</sup>		
Average Power Consumption	240W/m <sup>2</sup>   22.3W/ft <sup>2</sup>			150W/m <sup>2</sup>   13.9W/ft <sup>2</sup>		
Weight of Panel	7.3kg (14.6kg/m <sup>2</sup> ) 16.1lbs (32.2lbs/m <sup>2</sup> )	7.2kg (14.4kg/m <sup>2</sup> ) 15.9lbs (31.7lbs/m <sup>2</sup> )	14kg (18.7kg/m <sup>2</sup> ) 30.9lbs (41.2lbs/m <sup>2</sup> )	12kg (16kg/m <sup>2</sup> ) 26.5lbs (35.3lbs/m <sup>2</sup> )	10kg (13.3kg/m <sup>2</sup> ) 22lbs (29.3lbs/m <sup>2</sup> )	8kg (16kg/m <sup>2</sup> ) 17.6lbs (35.2lbs/m <sup>2</sup> )



LED display technology  
for tomorrow's world. ↵

Please contact us if you have any questions,  
we're always happy to help

**[www.theledstudio.com](http://www.theledstudio.com)**  
**[sales@theledstudio.co.uk](mailto:sales@theledstudio.co.uk)**

**UK Showroom**

The Pavilion  
Merchant Square  
London, W2 1JZ  
United Kingdom

Tel: +44 (0) 20 3832 9500

**Head Office**

Cromwell Place  
Lime Tree Way  
Basingstoke, RG24 8YJ  
United Kingdom

Tel: +44 (0) 20 3852 9500

**EMEA Office**

169-171 Makarios III Avenue  
Cedars Oasis Tower  
3027, Limassol  
Cyprus

Tel: +357 9625 8848

**USA Office**

22 Boston Wharf Road,  
7th Floor,  
Boston, MA 02210  
United States

Tel: +1 (833) 533-7836

**USA Showroom**

123 Heiman Street, Suite 200,  
San Antonio,  
Texas 78205  
United States

Tel: +1 (833) 533-7836