AlterProjects

The Globe Art Wall By ENESS

Information for Planning

www.alter-projects.com
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Project Overview



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Artist Profile: ENESS









ENESS is an art and technology company. We design evocative interactive experiences for public, commercial and cultural entities.

Founded in 1997, ENESS has been commissioned to produce and install artworks worldwide for signature commercial buildings; urban and cultural precincts; festivals, galleries and museums of modern art.

ENESS is more than a studio. It is a mindset. It is a belief in the power of providing art in everyday life that fires the imagination; that provides joy, happiness and beauty in unexpected places – transformational experiences that change lives. We produce permanent sculpture; temporary art installations; interactive design outcomes; and artful play equipment.

https://www.ENESS.com

Project Overview:
THE GLOBE ART WALL



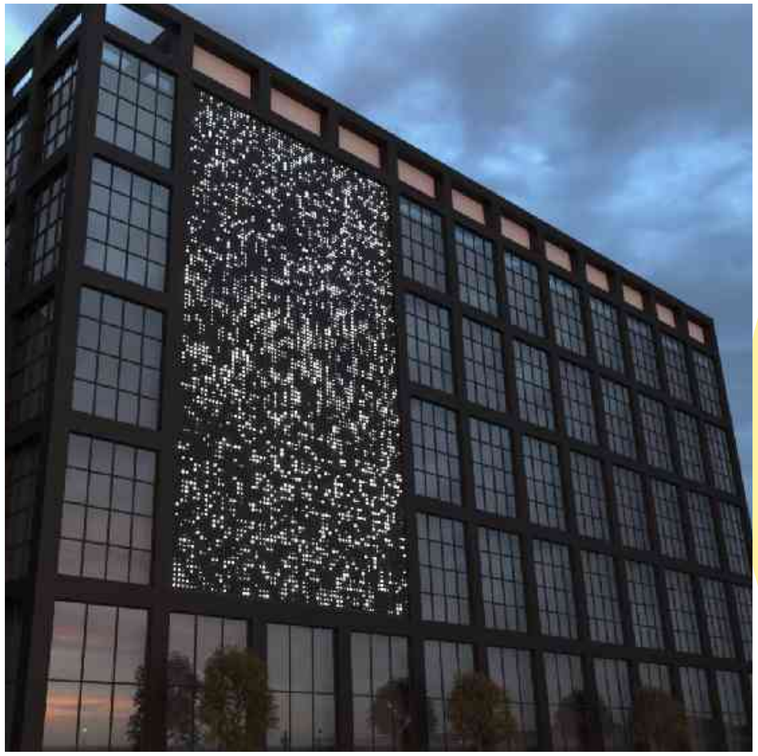
This work uses an iconic element of the television medium to cast a modern metaphor about Manchester.

When an analogue TV is not tuned into a channel, it picks up random radio waves from various manmade and natural sources including deep space.

In the same way that your TV tunes into things that are bigger than itself, the edgy, left-field brilliance of Mancunians comes from tuning into the profundity of their local place – its potent, vibrant creative life filled with astounding historical milestones, mercurial thinkers, and maverick athletes.

From this fertile foment, new ideas crystallise. In this way, Mancunians are open, alive and responsive: just like white noise.

Project Overview:
THE GLOBE ART WALL - CONTENT



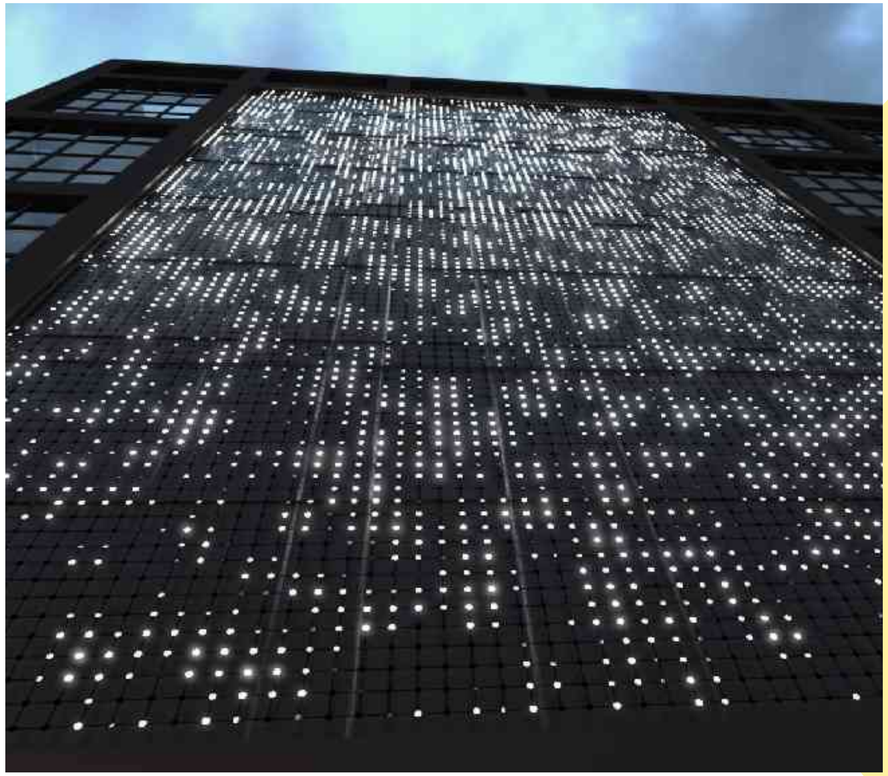




INTERACTIVITY: Images will sporadically emerge from the white noise, signifying the richness of the Manchester scene. The behaviour of the particles will change in response to the movement of passersby – a metaphor for the people of Manchester being the catalyst for creation. Exact content is still in development.

VIDEO LINKS: https://vimeo.com/874659312/94b745751d and https://vimeo.com/video/910253295 **password**: eness

Project Overview:
THE GLOBE ART WALL - MATERIALITY







PIXEL PITCH: The LED Mesh Curtain facade consists of 13,500 LED RGB nodes at 200mm spacing. The pitch is the same as what is used on the bottom part of the SODA facade, and so will not be a high resolution screen like that of a standard advertising screen. The quality is more similar to that of Christmas Lights, resulting in a pixelated image.

CUSTOMISATION: We will be customising a standard LED mesh with an acrylic cover over the nodes which will have a slight reflective quality (as you can see above). This will assist in muting yet spreading the light, and when the wall is off, will still give a kinetic feeling with the reflections it will pick up from surrounding traffic and light pollution.

Technical

Product Spec and Drawing Pack



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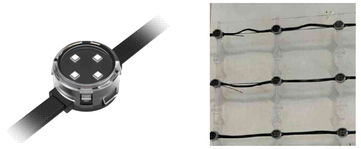
Technical
PRODUCT SPECIFICATION

Shenzhen SH LED Technology Co., Ltd

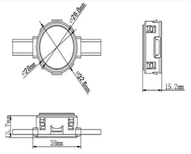
Product specification

Product name	LED mesh screen	**Model**	E33-P200

Product picture

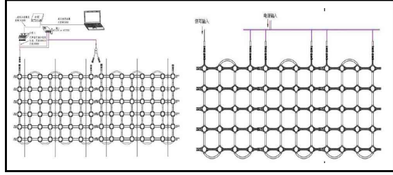


Size picture



Electrical parameters		**Light source parameters**	
• Rated working voltage	DC24V	• LED Qty	3535RGB*4 each pixel with lens
• Rated power	1.1w/pixel	• LED Brand	Cree (USA)
•Lead wire specification	2x0.75mm²+3x0.3mm²/2.9mm*9.7mm	• Light source life	≥30000 Hr
• Line sequence definition	Red: V+/ Green:A /Blue :B/White:PI/PO/Black:GND	**Optical parameters**	
• Optional spacing(mm)	Pitch 200mm	• Gray scale	16 Bits / 65536
• PIXELS per square meter	25	• Brightness	850-900lm/sqm
• Control mode	TTL	• Luminous intensity	10.1lm,17.1lm,27.1lm/pixel (change by RGB*2/3/6)
• Control chip IC	UCS5903	• Wavelength	RGB(R:615-630nm G:525-545nm B:460-480n
•Pixel segment	R1 £6 £8 £10 £12 £14	• Color temperature	None White
Mechanical parameters		• LED Beam	110°±10%
• Body	94-V0 Flame-Retardant PC	• Color rendering index	CRI 94 minimum with R9 > 85
• Cover	94-V0 Flame-Retardant PC	**Lighting Distribution**	
• Shell color	Black		
• Net Weight(single pixel)	30 gram		
Others			
• Oper Temp	-20℃~+60℃		
• Storage temp	-40℃~+75℃		
• Degree of Protection	IP67		

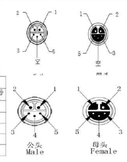
Installation method



Wiring diagram

电线/胶位接线方式		
电线颜色	功能	序号
蓝边	GND	1
红字	V+	2
黑边印字	DAT	3
/	B	空
黑边蓝边	PI/PO	5

电线/胶柱接线方式		
电线颜色	功能	序号
黑色	GND	1
红色	V+	2
绿色	A	3
蓝色	B	4
白色	PI/PO	5



批准： 审核： 制表：王丝

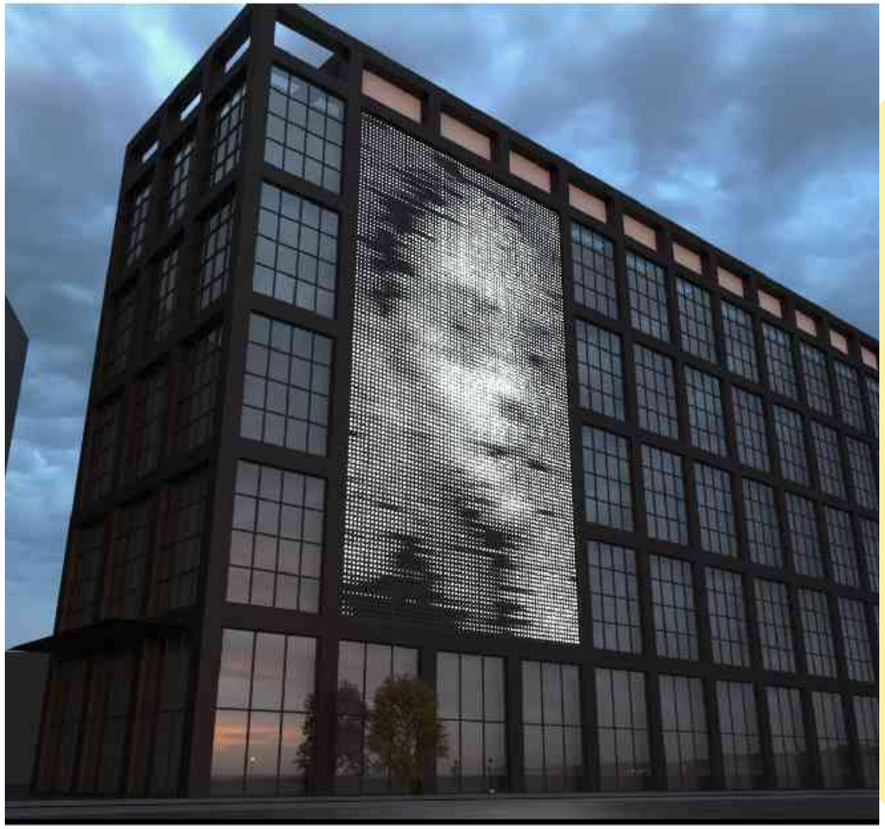
Maximum Candela Daytime:
550 cd/m2

Maximum Candela Nighttime:
300 cd/m2

The product has a maximum luminance of 550 cd/m2 when all the lights are on full brightness in white. However, the product is fully controllable and adjustable and so we can ensure that it does not exceed 300 cd/m2 during the night time hours which would keep the luminance levels in accordance with the recommendations contained within the Institute of Lighting Professionals Lighting Guide - Technical Report Number 5. We can measure it's output onsite taking into account the ambient light in the area once we have completed install.

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Trouble Shooting & Maintenance



Trouble Shooting

There are several things that could fail when working with any kind of LED installation. As part of the Artists contract with Allied, they will be preparing a robust maintenance and trouble shooting manual with a plan for all common eventualities.
The key issues that could arise and the plan we will enact for these are as follows:

- LED Controller or Power Supply Fail - These will all be located within the building in a specially designated control room within a server rack meaning that if these need to be changed out, this can be done easily without further access to the facade needed. A surplus of LED controllers and Power Supplies will be supplied for this eventuality. Further components can be bought at a later date by Allied as needed.
- Programming Error - In the unlikely eventuality there is a programming error, possibly because of a power cut, this will be fixed by the designers remotely.
- LED Node fails - This will happen at some point. We will provide a surplus so that they can be replaced as required. Due to the nature of the artwork, if any nodes failed, chances that this would be noticeable are very slim, which means that the switching out of any nodes can wait until the yearly maintenance. However, if for any reason the nodes that went out caused any disturbance to the artwork, it could be reprogrammed remotely so that they were no longer an issue, and could be swapped out during the annual maintenance. This would be organised by Allied.

Yearly Maintenance

There will be a yearly maintenance contract put in place by Allied for the AV installer to come to site and inspect the LED wall to ensure the wall is still operating as required, that fixings are still in good working order, and to carry out any maintenance work required (such as swapping out any malfunctioning LEDs).

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Thank you

