

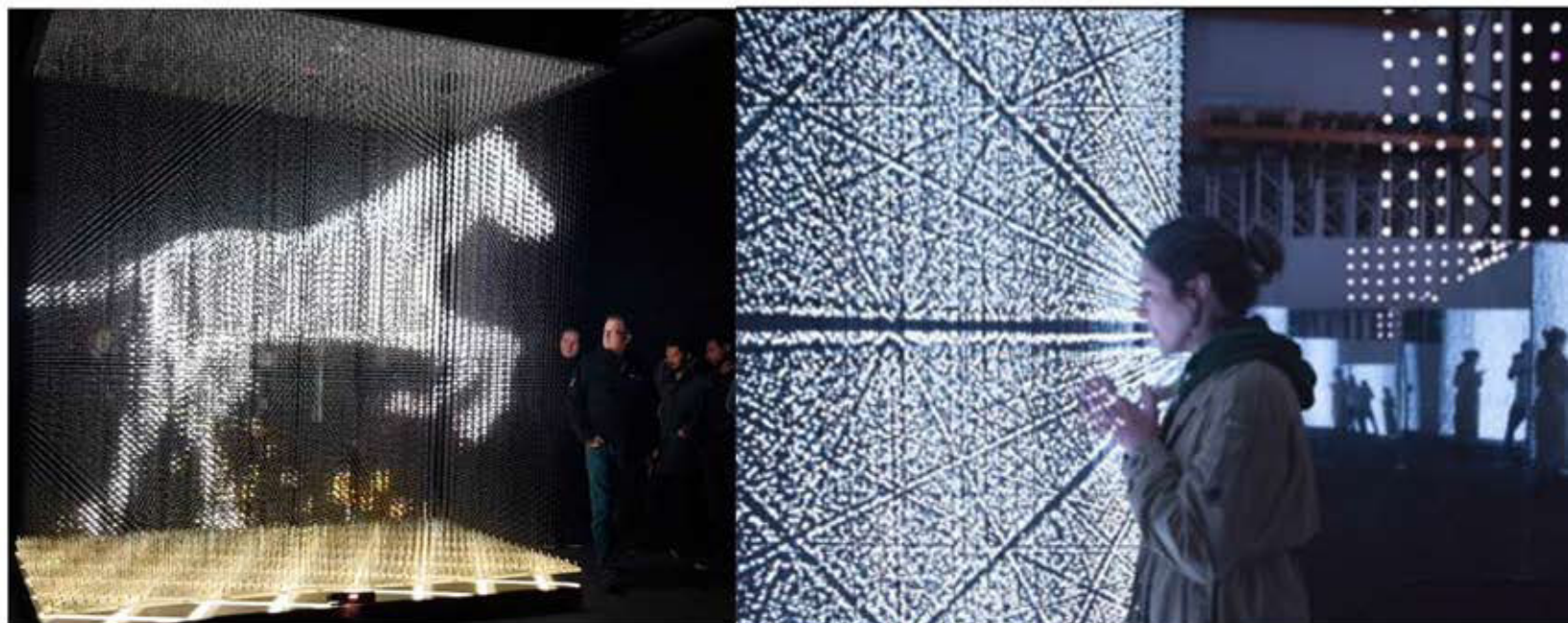
## Introduction

Composed of thousands of LEDs suspend in the air through straight fine wire.

Each LED are specialized into this format of creation capable to have here own behaviour through microchip.

The LEDs are agenced into the space in Organic layout that create 25mm pitch

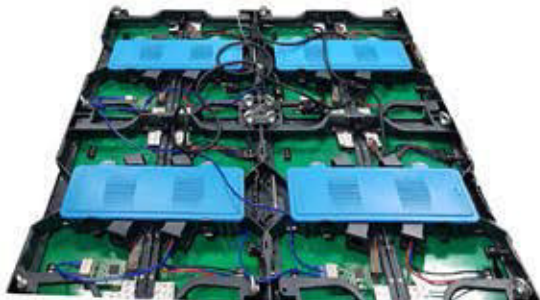
The Solution can be shaped in a large variety of layout into the space, thanks to then modularity of the Dragon LED Panel of 50cm<sup>2</sup> that support multiple standardise rigging and locking systems.



Project Requirement		
Size	Scale (X, Y, Z) :	2X 1x1x3 Meter
Dragon° Module	Modules Nb :	8
Pixel Rate	LEDs Pitch :	1 LEDs Light DOT per 5cm <sup>3</sup>
Resolution	LEDs / Pixels Nb (X, Y, Z) :	20x40x60
LEDs Strings	LEDs Stings Nb :	800
LEDs in Total	LEDs / Pixels Nb :	48 000
Strings Length	Height :	3m
Weight	Hanging total weight :	~130 Kg

# Dragon° Module

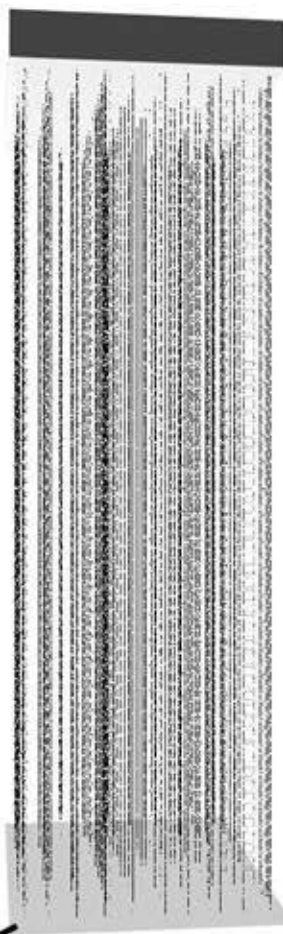
The Solution can be shaped in a large variety of layout into the space, thanks to the modularity of the Dragon LED Panel of 50cm<sup>2</sup> that support multiple rigging and locking systems.



- 360° Angles of View
- 25mm Organic LEDs Matric Pitch
- Modular Panel Layout 50x50cm
- Interconnectable Module
- Standardise Rigging and Fixation
- Highly Scalable into the space
- Easy Maintenance and Replaceability

Control electronics in aluminium case

LED string wires



Transparent polycarbonate (to keep led string straight)

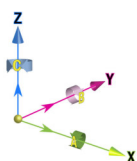
Standard Dragon° Module <i>Characteristics</i>		
Module Type	Size Format:	50cm <sup>2</sup>
Pixel Rate	LEDs Pitch :	1 LEDs per 5cm <sup>3</sup>
LEDs String	Amount : Height :	100 3 meters
Resolution	(X, Y, Z) :	10x10x60
Pixel Rate	LEDs / Pixels Nb :	6000 LEDs
Module Mounting	Type : Size :	Standard LED Panel Mounting 50x50x12cm
Weight	Average :	~12 Kg
Power Consumption	Average : Peak :	90W 180W

Certifications:  
electronics: CE, UL , RoHs  
Polycarbonate: M1,  
Wires: IEC 60332-1-2 , UL94 V0

# Specification

Neuron LED <i>Characteristics</i>				
<b>Color Range</b>	Type :	<b>RGB - 24 bits</b>	Colors :	16 777 216
<b>General Luminosity Level</b>	Type :	<b>8 bits</b>	Range :	256 Level
<b>Refresh Frequency</b>	Hz :	<b>25 Hz</b>	FPS :	25 Fps
<b>Identification Method</b>	Manufacture ID : (Unused)	<b>8 bits</b>	Index by position :	8 bits
<b>Neuron Microcontroller</b>	Type :	<b>Proprietary</b>	Protocol:	Proprietary
<b>LED Bulb Size</b>	PI :	<b>16pi x 8pi</b>	mm:	0.7 x 0.9mm
<b>Lens envelope</b>	Plastic type :	<b>Epoxy</b>		
<b>Field of View</b>	Angle vision:	<b>360°</b>	PCB Rot Angle:	<b>Horizontal ▲</b>

LED Strings <i>Characteristics</i>				
<b>Cable Composition</b>	Metal Type :	<b>Copper</b>	Number :	<b>2</b>
<b>Isolation Coating</b>	Plastic Type :		Water proof :	<b>IP44</b>
<b>Size</b>	Diameter :	<b>0.2mm</b>	Length :	<b>1 &gt; 5 Meters</b>
<b>Connector</b>	Description :	<b>Dragon board Connector</b>	Type :	<b>Universal Male</b>
<b>Base Plug</b>	Methode :	<b>Transparent Weight or Hook to the base</b>		
<b>Noise Offset Canceller</b>	Methode :	<b>Independent Spring</b>	Use :	<b>Equilibre the weight applied on each strings when hanged</b>
<b>Coating Color</b>	Type :	<b>Black Mate</b>	Transparent / Copper	<b>Green / Glowing</b>
<b>Max Weight Tolerance</b>	Weight :	<b>&gt;20Kg</b>		



Accessories		
<b>Control Driver</b>	<b>Master LED Controller :</b> <b>Output per Controller :</b> <b>Highest resolution :</b>	<b>HDMI / DVI Graphic Interface</b>  <b>4x4x3 Meters : 384K LEDs</b> <b>X16 Controller 6 144K LEDs</b>
<b>Module Data Connection</b>	<b>Ethernet RJ45 :</b> Link the DragonO module data transmission.	100m > can be extended every 100m with switches
<b>Computer</b>	<b>Main Operator:</b>	<b>High-end Laptop</b>
<b>Tablet Controller</b>	<b>Remote Controller APP :</b>	<b>Window, Android, OS Tablet or Smartphone</b>

*World axes: (X, Y, Z) = (Width, Length, Height)*

Power Supply per Module				
<b>Input power</b>	<b>Standard</b>	<b>230V AC, 50/60Hz 3.8A</b>	<b>US</b>	<b>110V AC, 50/60Hz 3.8A</b>
<b>2 Output power</b>	<b>Low</b>	<b>5.5V, 70A</b>	<b>High</b>	<b>3.3V, 70A</b>

Dragon° Top Frame Support	
<b>Composition:</b>	Light aluminum
<b>Power supply input output:</b>	External bidirectional connector for the power
<b>Ethernet input output:</b>	External bidirectional connector for the video signal
<b>Module interconnection:</b>	Metal solid lock
<b>Fixable:</b>	Standard Metal Frame Accessories

Dragon° Base Frame Support	
<b>Composition</b>	Transparent polycarbonate plate
<b>Strings Anchor</b>	100 Replaceable silicone rubber