

DESIGN NOTES

Structures shall be designed and assessed to the following applicable standards Principally;

- Eurocode 0: Basis of structural design (EN 1990)
- Eurocode 1: Actions on structures (EN 1991)
- Eurocode 3: Design of steel structures (EN 1993)
- Eurocode 7: Geotechnical design (EN 1997)
- Eurocode 9 : Design of aluminium structures (EN 1999)

As detailed in EN1990
Core structural elements will be designed with an indicative design working life as shown below

Table 2.1 - Indicative design working life		
Design working life category	Indicative design working life (years)	Examples
1	10	Temporary structures ⁽¹⁾
2	10 to 25	Replaceable structural parts, e.g. gantry girders, bearings
3	15 to 30	Agricultural and similar structures
4	50	Building structures and other common structures
5	100	Monumental building structures, bridges, and other civil engineering structures

(1) Structures or parts of structures that can be dismantled with a view to being re-used should not be considered as temporary.

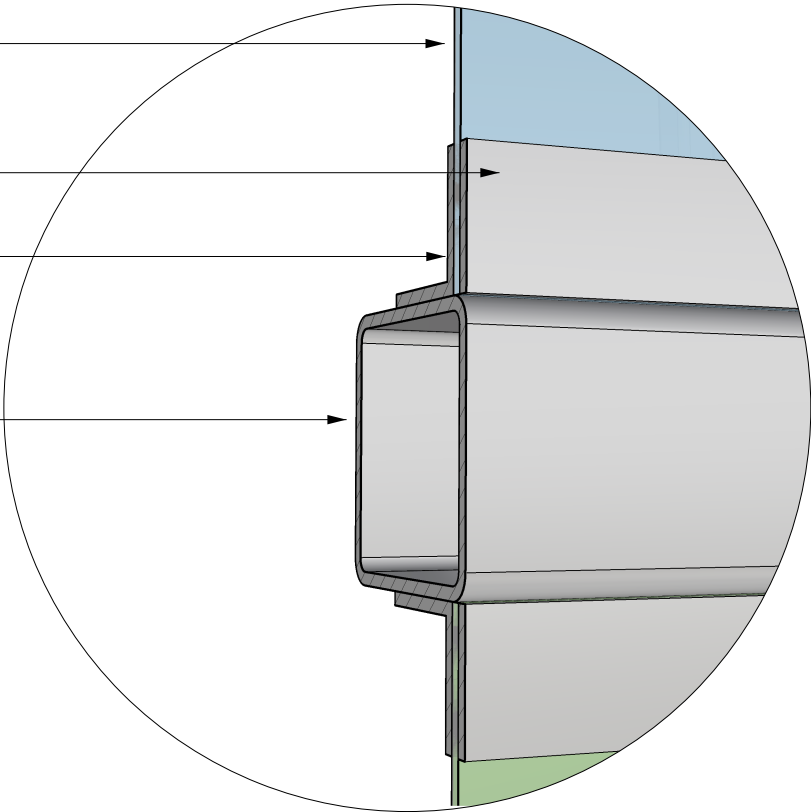
SGM G1 MOVING HEAD
BEAM FIXTURE OR SIMILALR

8mm COLOURED ACRYLIC

4mm REBATE
WELDED
AND SEALED

INTERNAL GLAXING
RETAINER BOLTED
FISING

BRACING
TYPICAL SECTION 40X40 STEEL SHS
GRADE S355 OR S235 WHITE WET
PAINT FINISH TO C3 CORROSION
SPECIFICATION



DETAIL 1 - NTS

SEE DETAIL 1

SATELITE TO HOUSE
MARTIN AUDIO CDD8
BEHIND GRILL

SGMLinealux L3 Linear Facade
BATENS TO INTERNAL
CHORDS

49" DISPLAY MONITOR

REBATE

ACRYLIC.

40x40mm STEEL HOLLOW SECTION

80x80mm STEEL CHORD

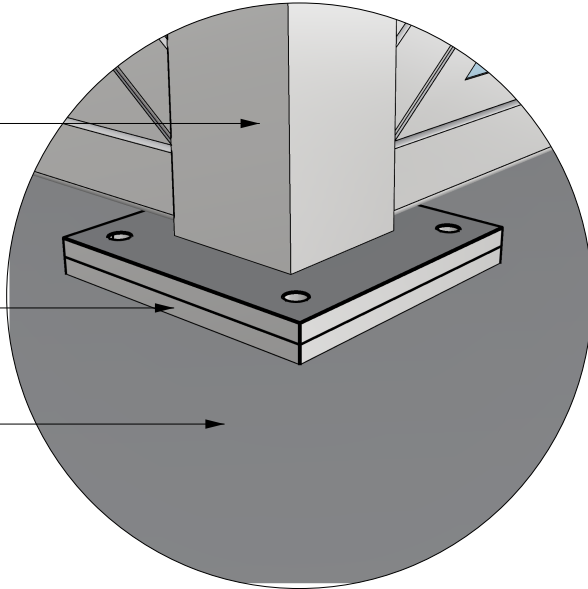
160x160x20mm STEEL BASE PLATE

RC BASE
FOUNDATION
R16 REBAR GRID
MIN 50 mm COVER

SEE DETAIL 1

80x80mm STEEL CHORD

160x160x20mm STEEL BASEPLATE.
SHIMMED AND GROUTED TO
LEVEL



STRUCTURE TO EXISTING MASONRY M20
TYPICAL RESIN FIXING TO RC PAD N/O
FIXINGS SUBJECT TO STRUCTURAL
SURVEY / DESIGN

DETAIL 2 - NTS

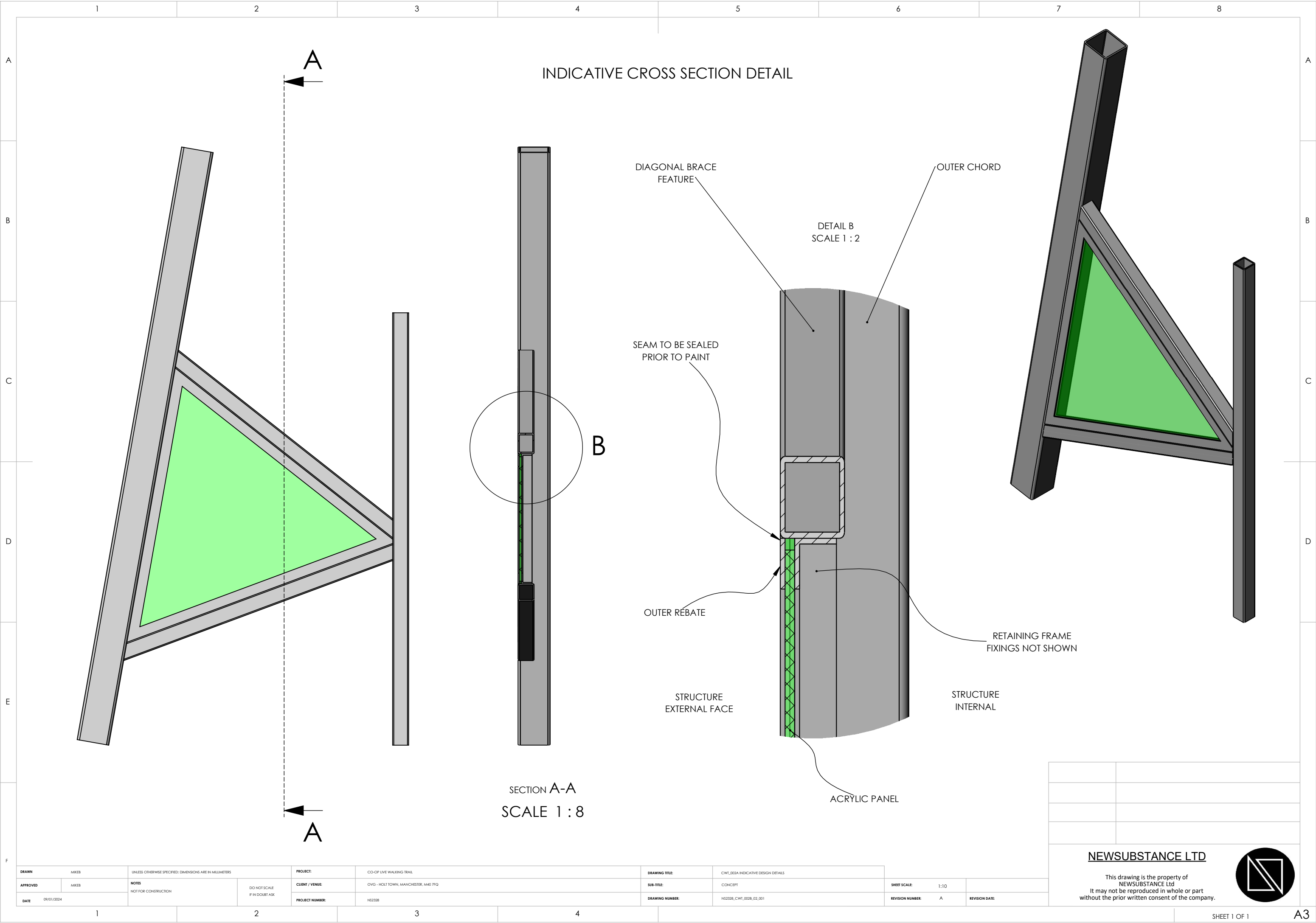
3D VIEW - NTS

DRAWN	GABRIELS	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		PROJECT:	CO-OP LIVE WALKING TRAIL	DRAWING TITLE:	CWT_002A INDICATIVE DESIGN DETAILS
APPROVED	--	NOTES	DO NOT SCALE IF IN DOUBT ASK	CLIENT / VENUE:	OVG - HOIT TOWN, MANCHESTER, M40 7YQ	SUB-TITLE:	CONCEPT
DATE	11/01/2024	NOT FOR CONSTRUCTION		PROJECT NUMBER:	NS2328	DRAWING NUMBER:	NS2328_CWT_002A_02_001

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G-1 Beam POI

LED Projection Luminaire



Description

The ultra-compact G-1 Beam POI is the perfect luminaire for permanent outdoor installations that require crisp and narrow beams. Its lightweight and compact design provides a unique solution for entrance features, signage, landscape, cruise ships, and beach installations. Despite the small physical footprint and just 50W power consumption, this compact projector with full 'moving head' functionality cuts through anything, providing extreme brightness and high contrast levels. Alongside the motorized focus and an optional remote base feature, the G-1 Beam POI offers an unsurpassed variety of effects with both a color wheel and a gobo wheel for powerful mid-air effects.

Features and benefits

- ✓ Full 'moving head' functionality with continuous pan and 240° tilt
- ✓ Ultra compact with freedom to create stage and clubbing effects even at the most unexpected outdoor locations
- ✓ IP66-rating and corrosion class C5-M (marine)
- ✓ Ideal for coastal and offshore installations such as beach bars and cruise
- ✓ 6,500K white / no hotspots / razor-sharp beam / ultra-smooth movement / flicker-free / programmable scenes
- ✓ Ideal to create dynamic effects in small or medium sized applications
- ✓ Cabled DMX with full RDM protocol
- ✓ 5-year warranty

Certifications & classifications

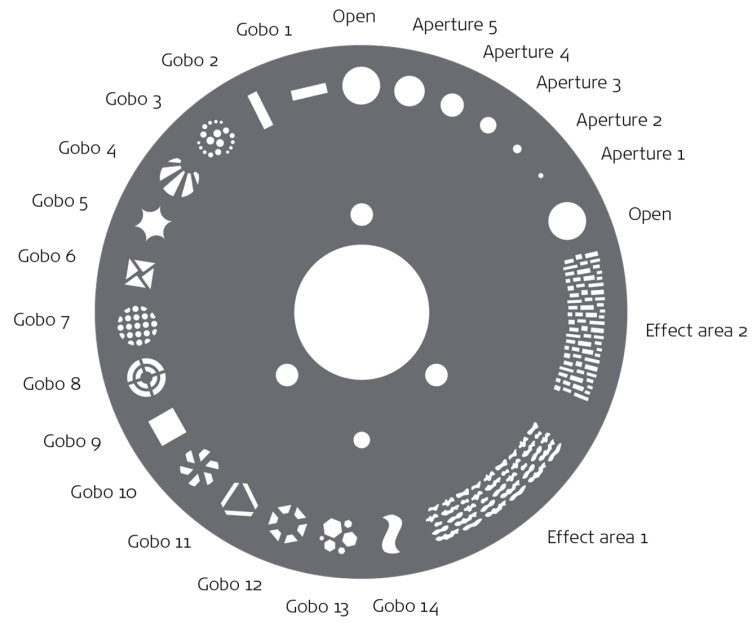
IP66
INGRESS

RoHS
COMPLIANT

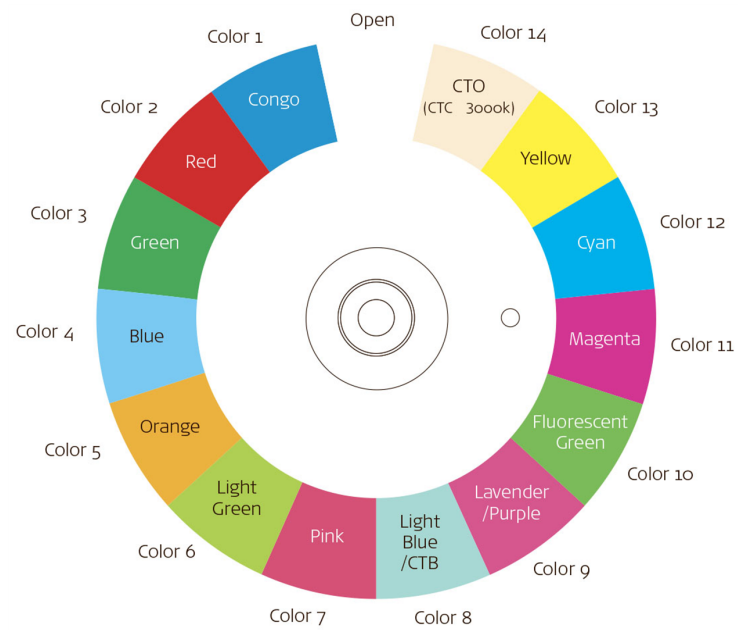
CE



Gobo wheel



Color wheel



Specification

Optical Data	LED expected lifetime	50,000 hours
	Lens angle	2.8 °
	Lightsource	High-power white LED (6,500K)
	Native lens options	2.8°
Photometric	Color temperature	6500K
	Efficacy	14 lm/W
	Lux @ 10m	4792 lux
	Lux @ 3m	53244 lux
	Lux @ 5m	19168 lux
	Maximum beam angle	2.1 °
	Maximum field angle	2.9 °
	Native beam angle(s)	2.8°
Physical	Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
	Corrosion class	C5 (ISO 12944:2018)
	IP class	IP66
	Lens material	AR-coated glass
	Material	Aluminium PC/ASA Plastic Rubber Steel
	Net dimensions L x H x W	219 x 382 x 255 mm
	Net dimensions L x H x W (inches)	8.6 x 15.1 x 10 inches
	Net weight	8.9 kg (19.6 lbs)
Features	Built-in macro effects	50 macros
	Color calibration	White calibration with SGM Color Match selection
	Color wheel	14 colors + open
	Dehumidifier	Head
	Dimming	Smooth fade in, gamma corrected curve
	Gobo wheel (1)	Two oscillation gobo effect areas Gobo shake Continuous scroll CW & CCW 19 gobos + 2 times open
	Pan	Endless
	Pan modes	360°

		360° Shortest path 540° Continuous CCW Continuous CW Endless
	Power / DMX indicator	Head
	Strobe	Ultra-high-speed strobe effects
	Tilt	240°
Electrical	DC voltage, nominal	24 VDC
	Electrical protection	Overload protection with automatic recover
	Input voltage, absolute max. rating	90 - 264 VAC; 50 / 60 Hz
	Input voltage, nominal	100 - 240 VAC; 50 / 60 Hz
	Max inrush current 230VAC	35 A
	Max power consumption	50 W
	Power Supply Unit	Auto-ranging electronic switch-mode
	Standby power consumption	7 W
Programming and Control	16-bit control	Dimmer, pan and tilt
	DMX channels	12
	DMX modes	1
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A Wireless RDM RDM ANSI E1.20
	Setting and addressing	RDM ANSI E1.20
	Wireless DMX	Lumen Radio with RDM
Connections	Data cable diameter	6,5 mm +/- 0,2 mm
	DMX data in/out	5 meter cable for DMX In and DMX Thru (permanently wired)
	Power	Power cable 5 meter with bare ends (permanently wired)
	Power cable diameter	8,5 mm +/- 0,3 mm
Installation	Mounting point	2 M-10 locking points (suitable for one optional POI Omega bracket)
	Orientation	Any
	Rigging possibilities	Hanging / horizontal mounted or ceiling / wall mount (optional)
	Safety features	2 attachment points for safety wire Minimum distance to combustible materials: 0.3 meter (11 in).

Thermal	Cooling	Passive
	Humidity (max.)	98 %
	Temperature range, operating	-40°C to 50°C
	Temperature range, operating max	50 °C
	Temperature range, operating min	-40 °C
	Temperature range, start-up	-20°C to 50°C
	Temperature range, storage	-40°C to 80°C
	Thermal protection	Automatic overtemperature protection
	Total heat dissipation, max power	170.6 BTU per hour
	Total heat dissipation, standby	23.9 BTU per hour
Included items	Included items	Safety instructions and installation quick guide 2 M-10 screws
Battery	Battery option	YES
Conforms To	CE - 2014/30/EU: EMC Directive	EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 EN 55032 EN 55035
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1 EN 60598-2-17 EN 62471 EN 60529
	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Reg.	UK SI 2012 No. 3032
	RoHS2 Directive	2011/65/EU
	UKCA - UK SI 2016 No. 1091: Electromagnetic Compatibility Regulations 2016	EN 55032 EN IEC 55015 EN 55035 EN 61547 EN 61000-3-2 EN 61000-3-3
	UKCA - UK SI 2016 No. 1101: The Electric Equipment (Safety) Regulations 2016	EN IEC 60598-1 EN IEC 60598-2-17 EN 62471 EN 60529
	UL	UL Std. 1573

Ordering information

Qty	Product name	Item number
☐	G-1 Beam, POI, BL, (excl. Batt)	80100201
☐	G-1 Beam, POI, CU, Ceiling mount	80100297
☐	G-1 Beam, POI, WH	80100211
☐	G-1 Beam, POI, WH, Ceiling mount	80100217
☐	G-1 Beam, POI, CU, (Excl. Batt)	80100291
☐	G-1 Beam, POI, BL, Ceiling mount	80100207
☐		
	Accessories	Item number
☐	Vacuum Test Kit	83061136
☐	RDM Addressing Tool	
☐	Omega Bracket POI	83060623
☐	SGM USB uploader cable, POI	83062067
☐		



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The Linealux L3 is a compact, high-performance linear grazer luminaire combining technology and performance in a stylish design. Packed with features including **EasyGlow™** visual comfort, **CoolDrive™** thermal management technologies and **MicroAntileach™**. Controllable in 1 foot segments through the use of PowerSync™ and provides superb color-over-angle consistency and blending of colors even at close blending distances. Available in white, color-changing and tunable white light engines.

Performance

Static White & Color ¹	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K (80 CRI)	4,680	88	172,400
● 3,000 K (80 CRI)	4,880	92	179,800
○ 3,500 K (80 CRI)	5,280	99	194,500
● 4,000 K (80 CRI)	5,280	99	194,500
● 5,000 K (70 CRI)	4,880	92	179,800

¹ Lumen output values are based on a 12 W/ft, 4 ft luminaire with 6° lens

Dynamic Color ²	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● RGBA	-	-	-
● RGBW (4000 K) with Royal Blue*	3,370	58	126,600

² Lumen output values are based on a 12 W/ft, 4 ft luminaire with 6° lens

Tunable White ³	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K – 6,500 K	4,980	94	183,500

³ Lumen output values are based on a 12 W/ft, 4 ft luminaire with 6° lens

Beam Angles	6°, 10°, 15°, 30°, 45°, 60°, 10° x 40°, 20° x 40°, 10° x 60°, 20° x 60°, 100°, Asymmetric
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* NOTE:

The default RGBW colors have recently changed to the RGBW with Royal Blue (4BW code). These colors will not match existing products with the earlier RGBW with Mid-Blue (4CW code). Contact Lumascape for custom LED Colors.

powersync® easyglow™ cooldrive™ microantileach™



Products and specifications are subject to change without notice.
LS9030-221118

Electrical

LED Power	12 W/ft, 8 W/ft and 5 W/ft (ASHRAE)
Power Consumption	15.1 W/ft (12 W/ft LED power)
Lifetime	>60,000 hrs (B10, L70, TM21)
Input Voltage	International 220-240 Vac, 50 Hz North America 120/277 Vac, 60 Hz
Earth Leakage	0.2 mA @ 120 Vac, 0.42 mA @ 240 Vac, 0.24 mA @ 277 Vac
Thermal Management	CoolDrive™ onboard thermal monitoring and control

Control

Interface	Lumascap PowerSync®
Protocols¹	DMX/RDM, Artnet, PWM ² , 0-10 V (sink or source) ²
PWM Frequency	1.6 kHz flicker-free dimming to 0.1%
Control Resolution	1 ft resolution (300 mm) and full luminaire Configurable via RDM
RDM Functionality	PowerSync enabled Lumascap luminaires are shipped with a default RDM personality which provides smooth dimming control. For different dimming characteristics or to enable other special functionalities, the default personality can be changed through industry standard DMX/RDM.
Systems	Range of third-party controllers

¹ Some protocols require additional hardware. For more information and other available protocols contact Lumascap.

² Not available for color-changing or tunable white

Physical

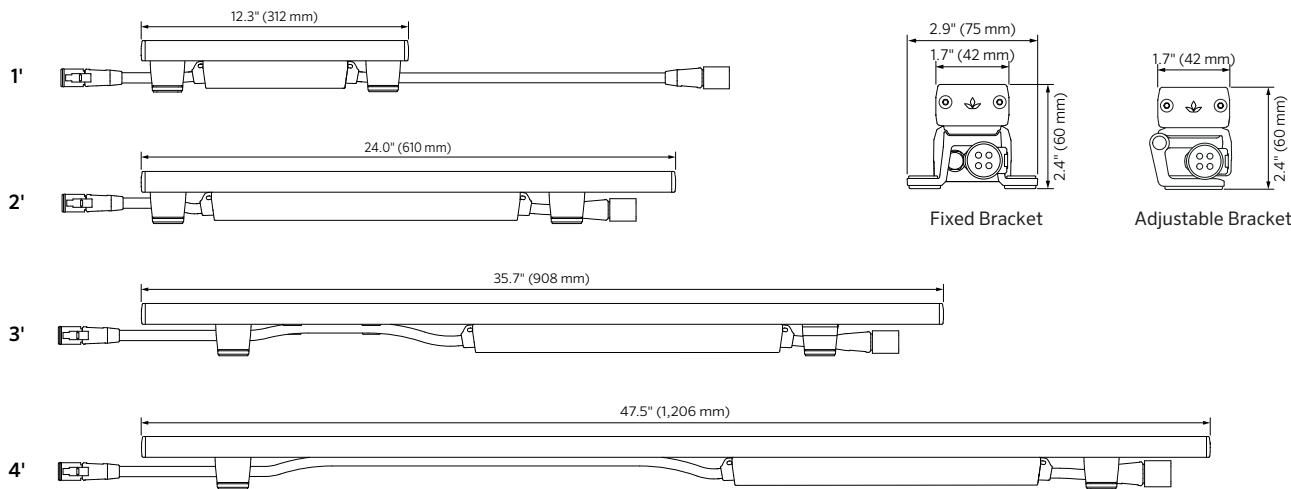
Housing	Marine-grade extruded aluminum, tempered glass lens
Finish	Superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top coat
Installation	Surface-mounted with included galvanic isolator
Adjustable	Multi-positional, reversible constant torque locking bracket
Ambient Operating Temperature	-40°F to 122°F (-40°C to 50°C)
Surface Temperature	≤122°F (50°C)
Weight	6.2 lbs (2.8 kg) for 4 ft section
Effective Projected Area	0.5 ft ² (0.05 m ²) for 4 ft section

Certification & Compliance

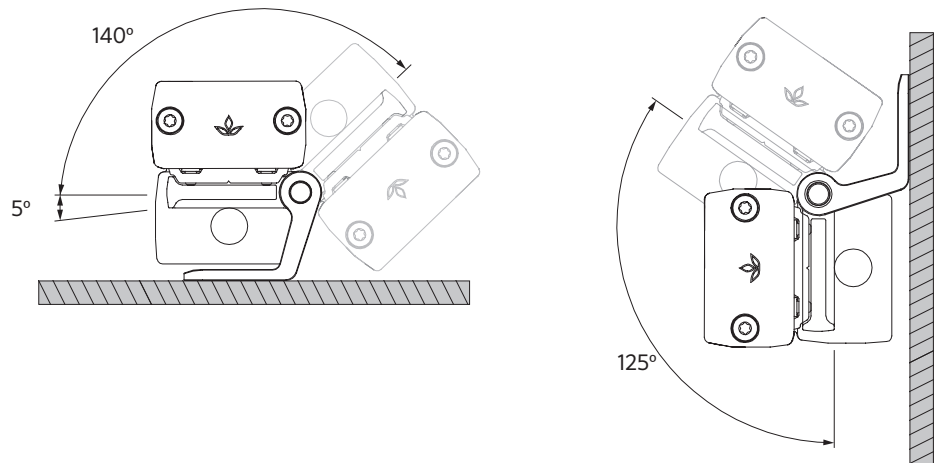
IP Rating	IP66 / IP67 (Passes IP68 Tests)
IK Rating	IK6 construction; IK10 accessories available on request ¹
Vibration Resistance	3G Rating (ANSI C136.31)
Environment	Dry, Damp, Wet locations
Certifications	ETL, CE, RCM

¹ IK10 is not the standard configuration, some restrictions apply. Contact Lumascap for more information.

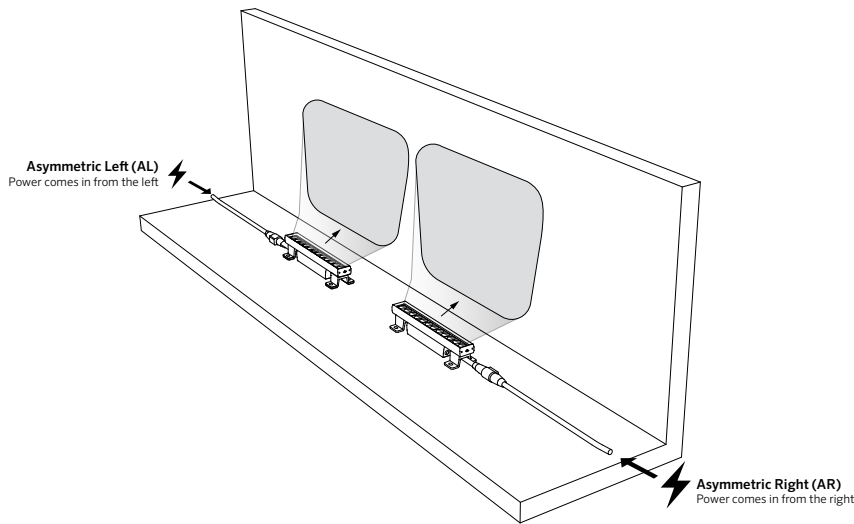
Dimensions



Luminaire Rotation



Asymmetric Optics



49" Outdoor Digital Advertising Displays



Fully integrated stunning tablet-style displays; perfect for any weather conditions

Direct Sunlight Readable

Thanks to their commercial grade ultra-high brightness panels ($2,500\text{cd/m}^2$), these displays are up to 10 times brighter than a domestic TV and so are easily readable even in direct sunlight.



$2,500\text{cd/m}^2$

Weatherproof

Designed to withstand the elements, these displays are protected against all wet weather conditions and airborne dust particles by their robust IP65 rated enclosure. They also feature a waterproof coating on all internal circuit boards and waterproof over-moulded AV connectors.

IP65

Dust Resistance

6

Protected against dust that may harm equipment.

Water Resistance

5

Protected against water spray from all directions.



Vandal Proof



Advanced Temperature Control System



Anti-Reflective Glass



Ambient Light Sensor



Protective UV Film



Landscape or Portrait



Plug and Play



Vandal Proof Wi-Fi Aerial



24/7 Usage



Customisation Available

Other Features

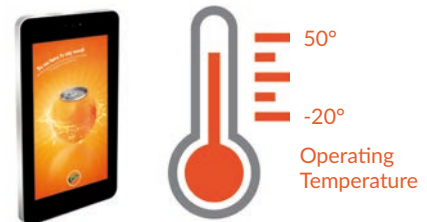
Vandal Proof

With a mild steel enclosure and thermally-toughened glass front, these IK10 rated displays are designed to withstand any damage that may occur in public spaces. To avoid tampering, controls and inputs are hidden and cannot be accessed by passers-by.



Advanced Temperature Control System

To maximise the lifespan of the display, the internal airflow system keeps the screen running at the optimal temperature regardless of the external conditions. Built-in air conditioning can be tailored to allow the display to work in any climate.



Anti Reflective Glass

The front glass face is specially treated to help diffuse direct sunlight, making the display easily readable even in bright weather conditions.



Ultimate UV Protection

The front glass of the display utilises a special UV treatment that reduces the internal heat of the enclosure by up to 71%; reducing the number of cooling fans needed and increasing the life of your display.



Optional Network Upgrade

The integrated Android media player allows you to easily update on-screen content via USB plug and play. Alternatively, upgrade your screen to be networked without needing any additional hardware to unlock our cloud-based CMS software. Third-party software can be installed instead if required.



Internal Locker

Should you need run the screen from an external source, there is space to fit a small PC or media player inside the lockable compartment. This can then be connected to the display via the HDMI, VGA or 3.5mm audio inputs.



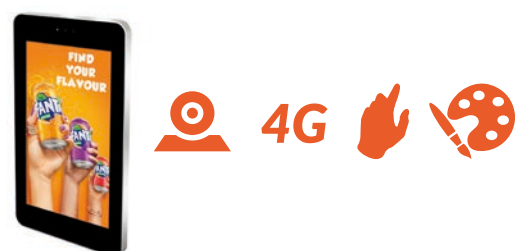
Free Lockable Wall Mount

To ensure that this is a complete turnkey solution, a lockable wall mount is included at no extra cost, allowing you to securely mount your screen in either landscape or portrait orientation.



Customisation Available

Bespoke displays can be manufactured to order should you require a non-standard solution, to incorporate a camera or touch screen upgrade for example. We can also modify existing models to add a 4G module for mobile connectivity or a vinyl logo/wrap.



Key Features



2,500 CD/M²
SUNLIGHT READABLE



IP65 RATED



IK10 RATED



VANDAL PROOF HIGH GAIN
WI-FI AERIAL



ANDROID MEDIA PLAYER



PROTECTIVE UV FILM



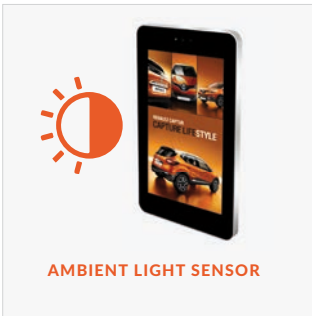
24/7 USAGE



LANDSCAPE OR PORTRAIT
ORIENTATION



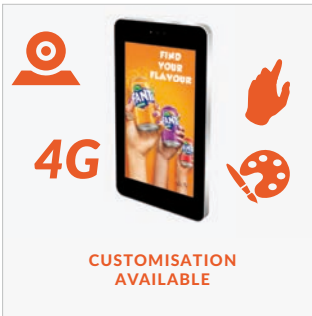
INTERNAL LOCKER



AMBIENT LIGHT SENSOR



FREE LOCKABLE
WALL MOUNT



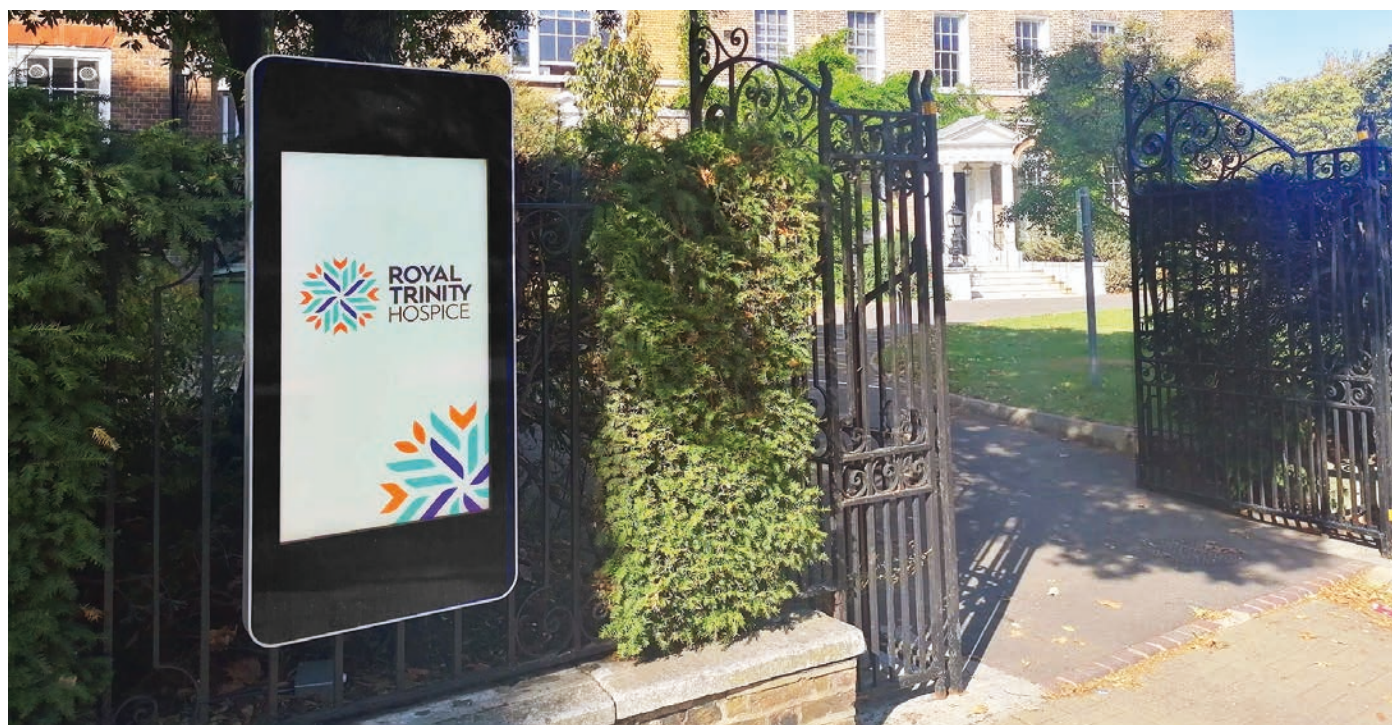
4G

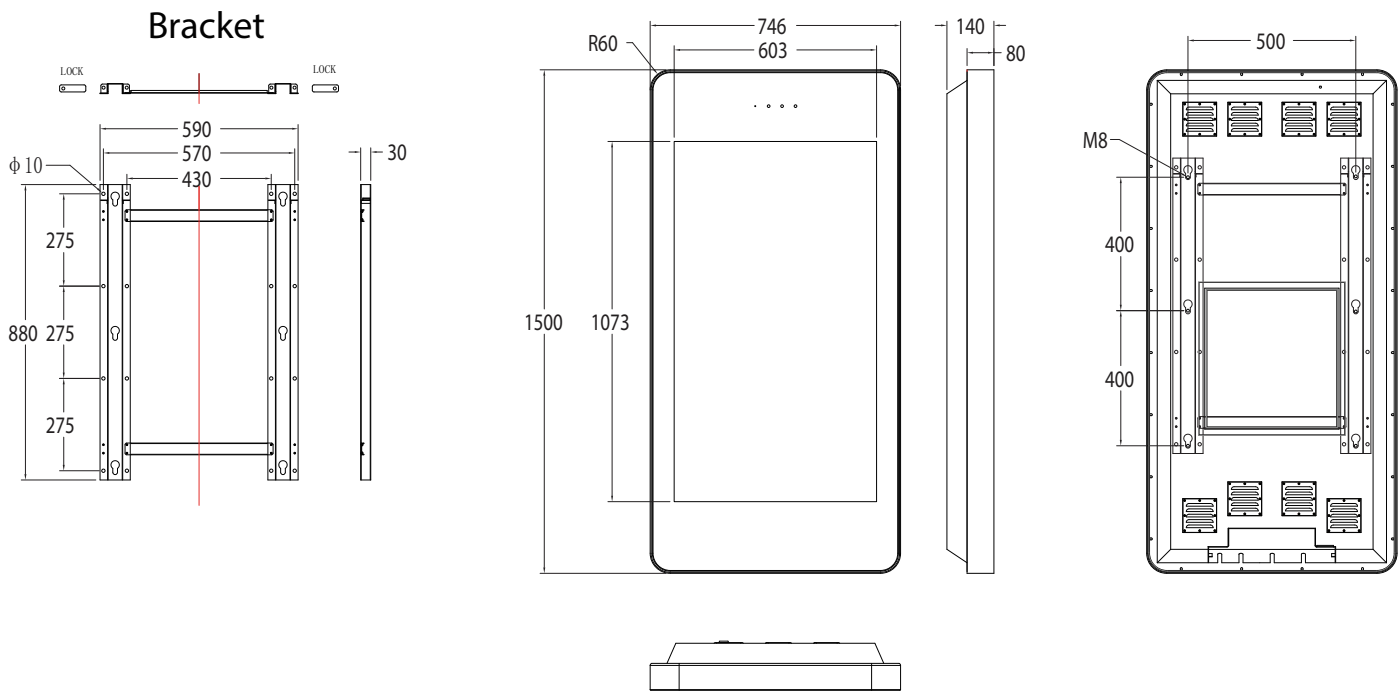
CUSTOMISATION
AVAILABLE

Specification Table

		49 Inch
Panel	Resolution	1920x1080
	Display Area (mm)	1073x603
	Aspect Ratio	16:9
	Brightness (cd/m²)	2,500
	Colour	16.7 M
	Viewing Angle	178°
	Contrast Ratio	8000:1
AV Inputs	Video	HDMI, VGA
Power	Power Consumption (W)	300
	Input Voltage	AC110~240V (50Hz~60Hz)
Mechanical	Unit Size (HxWxD mm)	1500x746x140
	Package Size (HxWxD mm)	1630x900x300
	Landscape VESA Holes (mm)	800x500
	Portrait VESA Holes (mm)	500x800
	Net Weight (kg)	82
	Gross Weight (kg)	101
	IK Rating	IK10
Environmental	Operating Temperature:	-20 °C to 50 °C
	Operating Humidity:	10% - 80%
	Storage Temperature:	-30°C - 60°C
	Storage Humidity:	5% - 90%
	Enclosure Protection	IP65
Computer	Media Formats	Video (MPG, AVI, MP4, RM, RMVB, TS), Audio (MP3, WMA), Image (JPG, GIF, BMP, PNG)
	Media Resolution	1920x1080/1080x1920
	Internal Memory	6GB
	CPU	Quad-Core Cortex-A17@1.61GHz
	GPU	Mali-T760 MP4 @600MHz
	RAM	2GB DDR3
	Internal Storage	8GB NAND
	USB	USB2.0 HOST (x2)
	LAN	10/100/1000Mb/s Ethernet
	Wi-Fi	802.11b/g/n/ac
	OS	Android 5.1.1
	Graphic Engine	OpenGL ES 1.1/2.0/3.0/3.1, OpenCL 1.1, Renderscript, Direct3D 11.1
Accessories	Included	AC Power Cable, Remote Control, Wall Mount
	Optional	Touch Screen Upgrade, Network Upgrade, Camera
Warranty	Warranty Period	3 Year Warranty
	Technical Support	Lifetime

Errors and omissions excepted



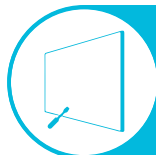


Why Choose Our Commercial Display Solutions?



Lifetime Technical Support

From the moment you receive your product, throughout the duration of your warranty and even after your warranty has expired we are here to support you. If you require any assistance setting up or using your product, or have any problems at all, we can provide free technical support via telephone and email.



On-site Support and Maintenance*

If needed, we can provide an installation service for any of our products. We can also set up service-level agreements for larger projects that require maintenance contracts.



Extended Warranty*

All of our commercial display products come with a 3 year commercial warranty as standard but if you want to extend this you can upgrade this to cover a 5 year period at point of purchase.



Training

As well as providing free remote CMS training sessions and webinars we can also visit you to deliver bespoke training for our software and hardware*.



Advanced Replacements†

Should your display suffer from any kind of hardware failure during the warranty period we will send you an advanced replacement and arrange for your old display to be collected, free of charge. This ensures no downtime where you are without a screen.



Custom Product Testing & Configuration

If you need us to test third party software or a website, or configure your screen in a particular way before it is dispatched (e.g. in a particular orientation or network mode), we can do so to make your life easier.



3D Rendering

Want to know how a particular screen will look once installed? Send us a photo of the location and we will create a 3D rendering of any screen in situ to help you to visualise how amazing it will look.



Logistics Support

We hold more stock in our UK warehouse than any other manufacturer so we can help you meet tight deadlines. For last minute orders we can also offer special express or morning delivery options*. We also carry out UK based quality control checks on every display before it leaves our warehouse.



Project Support

If you need to loan a sample unit to test we'd be more than happy to arrange this. We can also provide a rental service for temporary projects*.



Customisation*

Your display can be customised to suit your requirements by adding your logo or printed graphics or even tailoring the colour of a display. We can also carry out hardware modifications to existing products or manufacture bespoke solutions for special projects.



Extras*

As well as being able to provide accessories and add-ons, such as extra remote controls, NUC PCs and video wall controllers, we can also supply custom made flight cases which are great if a display needs to be moved safely from place to place.

†UK mainland only

*These particular services may incur additional charges