digiLED ZEUS®

Zero Energy Use System

POWER SAVING ECO TECHNOLOGY FOR GIANT LED SCREENS & MORE

digiLED

THE LED SCREEN EXPERTS

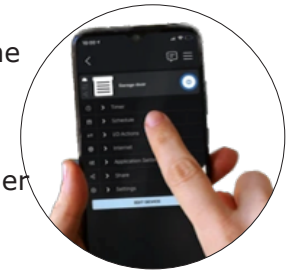
Manage Your LED Screens Power

digiLED ZEUS® is a revolutionary new way to manage the energy savings for your screen. Z in ZEUS stands for ZERO – and that's exactly how much energy your screen will consume when digiLED ZEUS® is activated.

Patented British Technology

Available as an internal OR external digiLED ZEUS® card, the patented British technology is groundbreaking for stadiums, venues, corporates or DOOH operators who are looking to enhance their green credentials, without greenwashing.

Easy to Control via iPad/Tablet or Phone



Controlled via a head-end, digiLED ZEUS® cards are a small device embeded into the power system of each and every LED panel.

While the screen is in use, the digiLED ZEUS® card simply passes AC power to the screen. When it comes to overnight or other downtime, where the screen is no longer playing video, that's when digiLED ZEUS® saves you power, saves you money and does its bit to save the planet.

A non-ZEUS screen playing what you think is black (or no content) will waste thousands of kWh of electricity throughout the year. Fit digiLED ZEUS® to the same screen and measurable power savings kick in straight away.

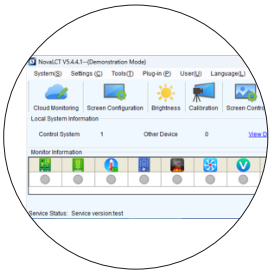
Choose Your Controller

Whether you are using internal or external digiLED ZEUS®, the control system that is best for you and your clients depends on their level of expertise and application.

Option 1: PoE Solution

For organisations that are comfortable with remotely managing IT infrastructure, a PoE solution is available that controls digiLED ZEUS® over the management console of professional ethernet switches. digiLED ZEUS® is not sensitive to the brand or grade of switch. If you run the IT department, it's entirely up to you.

Option 2: Static IP Web-Switched



Static IP web-switched head-ends are available for customers who might wish to avoid expensive IT infrastructure, offering a password protected web GUI that can be accessed on any Google Chrome or similar browser on the LAN. Control all your digiLED ZEUS® panels from your mobile phone or iPAD. It's that simple.

Option 3: Nova LCT Mars

Nova LCT Mars integrated solution marries up the scheduling and controls in-built into the worlds favourite LED software with the patented digiLED ZEUS® technology.

A perfect solution for experienced LED companies who want to retain the cleanliness of one central system for all.

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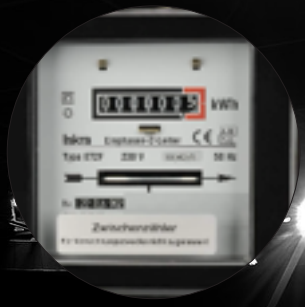
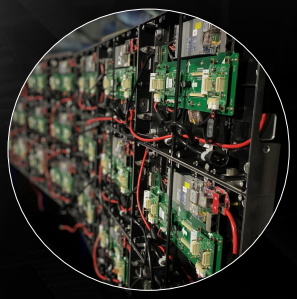
FEATURES

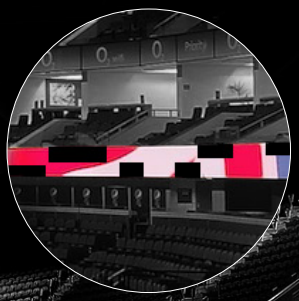
During screen downtime enjoy ZERO power usage. Pays for itself in a matter of weeks





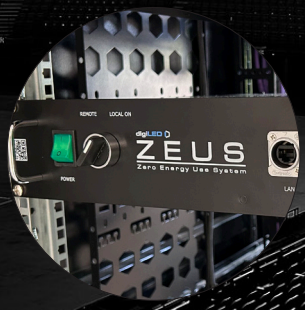
Easily integrates with your existing LED screens

Soft startup technology. Phased, randomised, algorithm based start up - prevents overloads or tripping



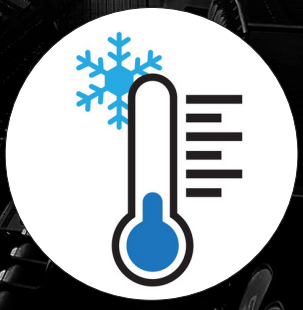
Simple 2U rack mount fixing or optional bespoke casing

Helps manage the off-season health of stadium screens



Choose from three simple control options

In-built security system as standard

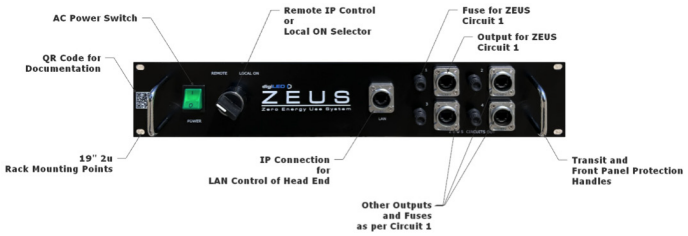


Over-wintering feature allowing periodic gentle startup routines to control condensation build-up

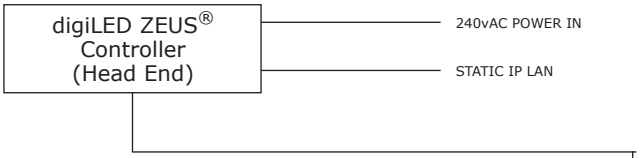
Operation

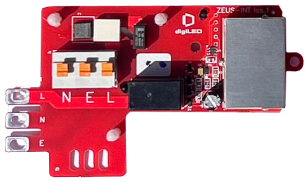
Screens fitted with digiLED ZEUS® use a patented randomisation algorithm to manage the power-up and shutdown of the screen, under the command of a digiLED ZEUS® head-end device. Users communicate via the app with the web-connected head-end controlling the digiLED ZEUS® nodes, which after receiving a GO signal, will soft-start the power-up of the screen.

Previous common issues such as tripping and power surges, typical of a giant screen power-up, can be avoided giving both your LED hardware and the electrical supply to the screen an easy and extended operational life. At the end of the day, screen shutdown is achieved with a click of a button or a schedule in the app, leaving the overnight screen burning zero power and generating no operational CO2.



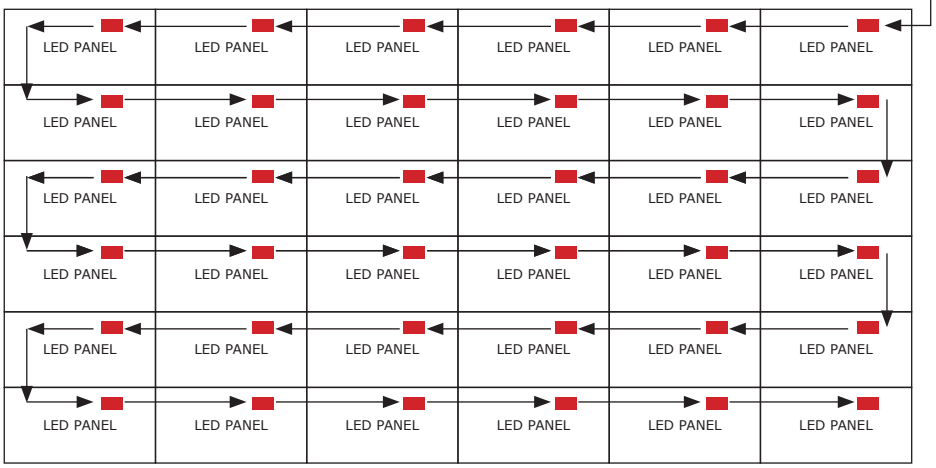
Typical digiLED ZEUS® system diagram



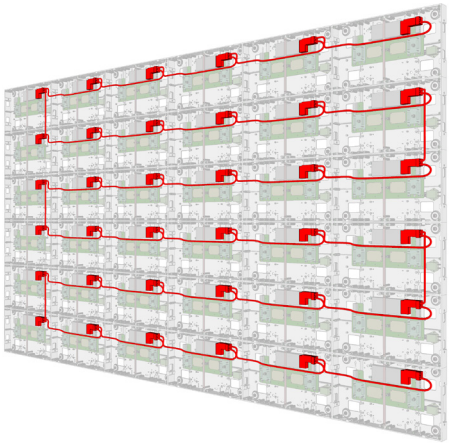


An indoor node

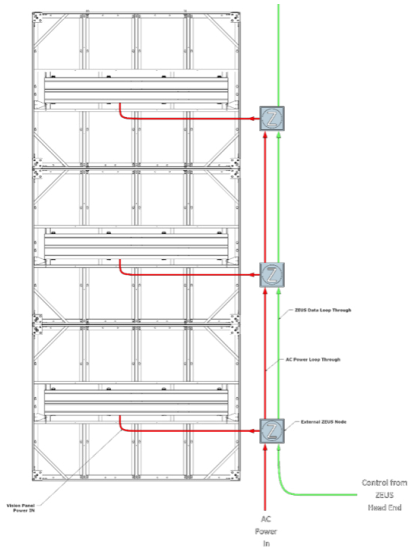
Typical installation of an indoor node



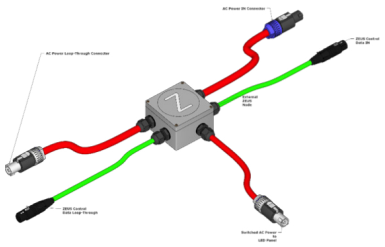
A typical LED screen panel array showing connectivity of each digiLED ZEUS® node installed on each LED panel.
(Note: the digiLED ZEUS® system can be fed from either the top or bottom)



Nodes fixed into a digiTHIN LED screen panel array



Nodes fixed onto an external (outdoor) screen array of LED panels



An external (outdoor) node

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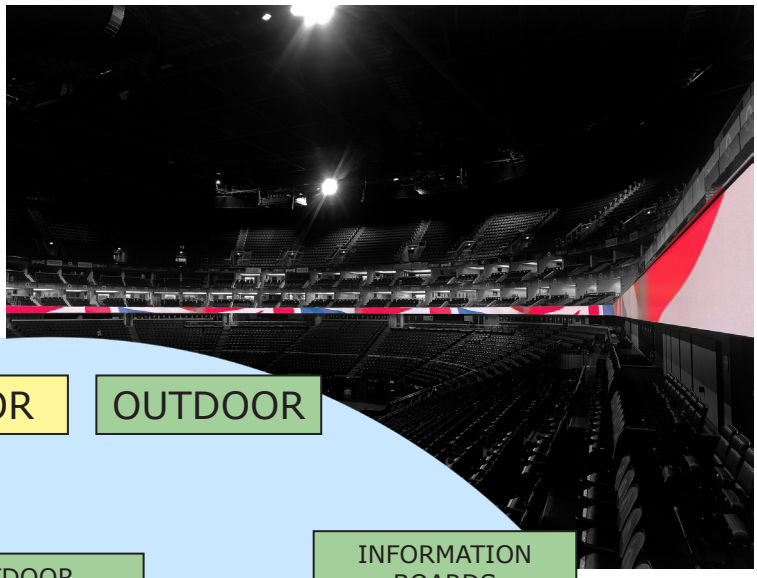
SPECIFICATIONS

digiLED ZEUS®

		PoE (Opt 1)	Web Switched (Opt 2)	Nova LCT (Opt 3)
User Interface		Equipment management console*	Web page served**	MFN card section***
API		Yes	Yes	Yes
Form Factor		Subject to 3rd party equipment	2U 19" rack mount	2U 19" rack mount
Securty		As 3rd party equipment	Password or PIN	As built into Nova software
Distance from Head End to Screen	MAX (mtrs)	75	75	75
Cable Type		≥Cat5e UTP	≥Cat5e UTP	≥Cat5e UTP
No. of Output Cables to Screen		Subject to 3rd party equipment	4	4
Number of digiLED ZEUS® Nodes	Per Cable	150 (if PoE 802.3 is available)	150	150
digiLED ZEUS® ELO Box Needed		Yes (1 per cable)	No	No
Maintenance Access		All Front or All Rear		
Input Voltage	vAC/Hz	100-250/50-60		
Head End Operational Power Consumption	W	8		
Node Power Consumption	W/Node	0.67		
Max Head End Power Consumption	W	450		
Operating Temperature (min/max)	degC	-20 up to +60		
Certification		TBC		

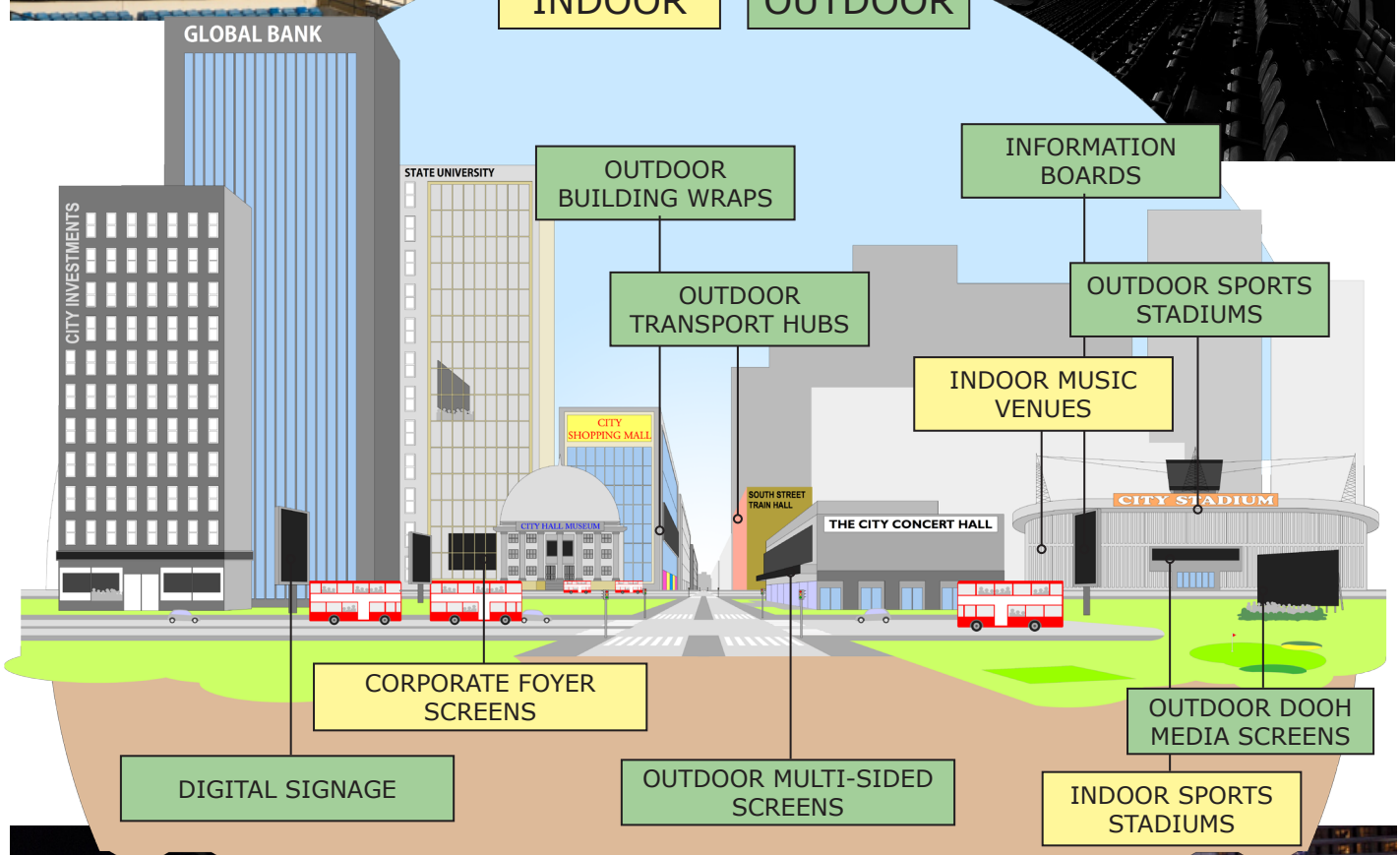
All specifications are subject to change without prior notification. E&OE.
Specifications are for standard system configuration. Contact your digiLED expert for detailed specification.
* Varies from manufacturer to manufacturer.
** Web page served over LAN from static IP device.
*** MFN card section of the Nova LCT Mars software.

APPLICATION EXAMPLES



INDOOR

OUTDOOR



OUTDOOR BUILDING WRAPS

INFORMATION BOARDS

OUTDOOR TRANSPORT HUBS

OUTDOOR SPORTS STADIUMS

INDOOR MUSIC VENUES

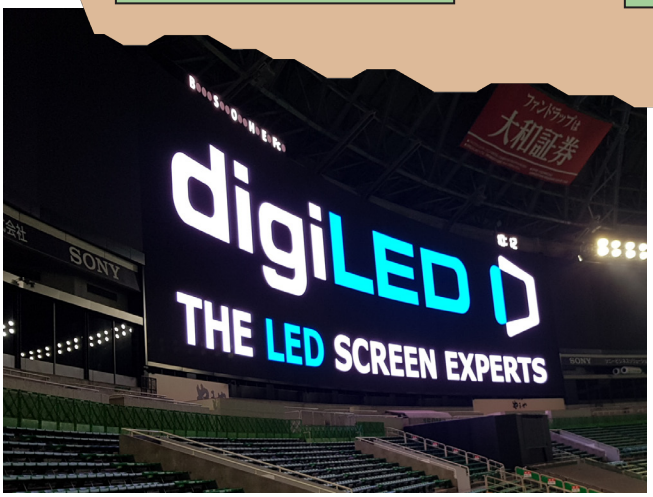
CORPORATE FOYER SCREENS

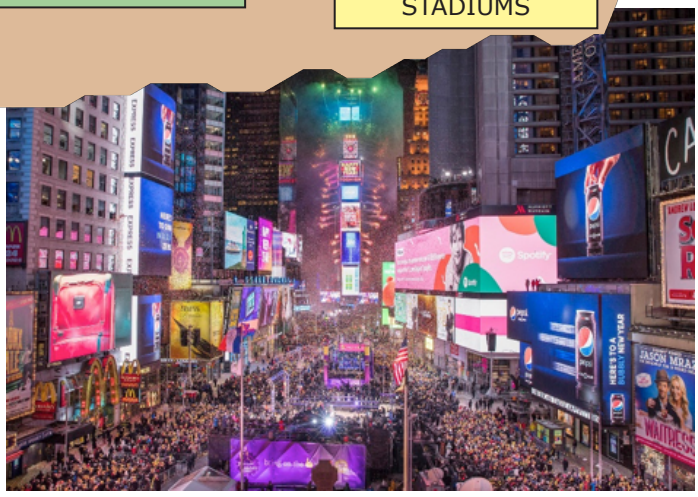
OUTDOOR DOOH MEDIA SCREENS

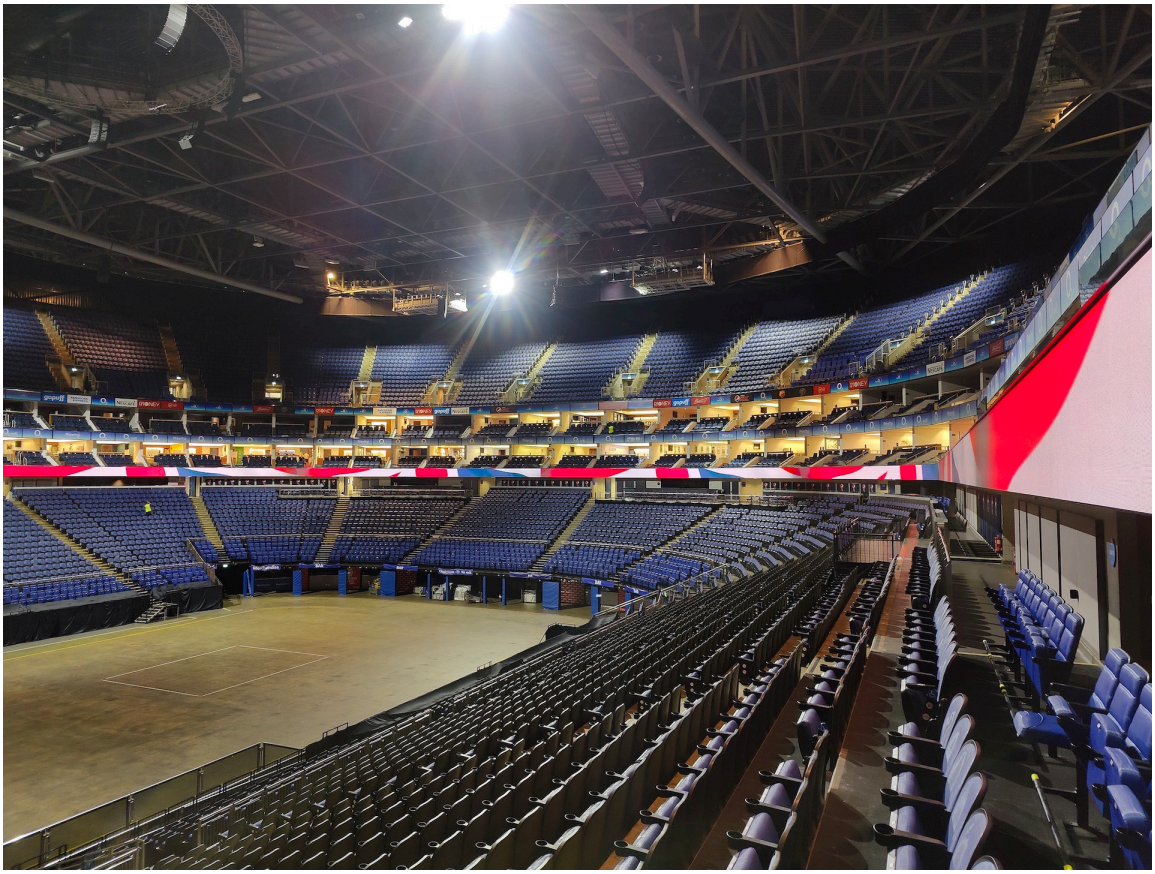
DIGITAL SIGNAGE

OUTDOOR MULTI-SIDED SCREENS

INDOOR SPORTS STADIUMS







Arenamazing at The O_2 London

Reference: Stuart Edwards – Technology Director – The O_2 London

"digiLED's ZEUS® technology is a long overdue development in the LED screen industry. For too long it has been impossible to turn off LED displays when the crowds have gone home due to the difficulty of restarting these in-rush, power-hungry beasts. digiLED ZEUS® allows us to simply turn off the Arenamazing system with a smart phone, and it's power management abilities mean that turning it back on is simple. digiLED ZEUS® will save us significant sums over the coming years and enhance The O_2 Arena's green credentials."

Our Ethos

Our goal is to do business with suppliers and customers whose company we enjoy and whose principles and values we respect.

We endeavour to be politely firm in our beliefs and steadfastly uphold our standards by doing the job correctly to produce quality products, supplied with loving care, to customers who cherish our systems and the enthusiastic, friendly expertise we strive to provide.

We love our work and are proud of our experience and our expertise. We want to do business with people who see the benefits of what we do and appreciate our input.

digiLEDers are keen to offer advice and an insight into our specialist knowledge without demanding a commercial return, if we can't convince customers of our value, we don't deserve their patronage.

Our Products

Huge, bright, vibrant, bespoke, digiLED screens are designed by seasoned LED experts, then crafted and assembled in selected, specialist factories.

Assembly, production and testing is monitored by the industry's leading QC team, using a proven 228-step manufacturing QC process paying meticulous attention to fine detail.

The resulting digiLED screens exhibit superior images, provide reliable performance and extended life. Supported locally by experienced, qualified, field and bench engineers. **digiLED quality just lasts.**

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Tech Hub Logistics Service Lab

SALES OFFICES IN MILAN, THE HAGUE, NANTES AND TOKYO

TALK TO US AND BE SOCIAL

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