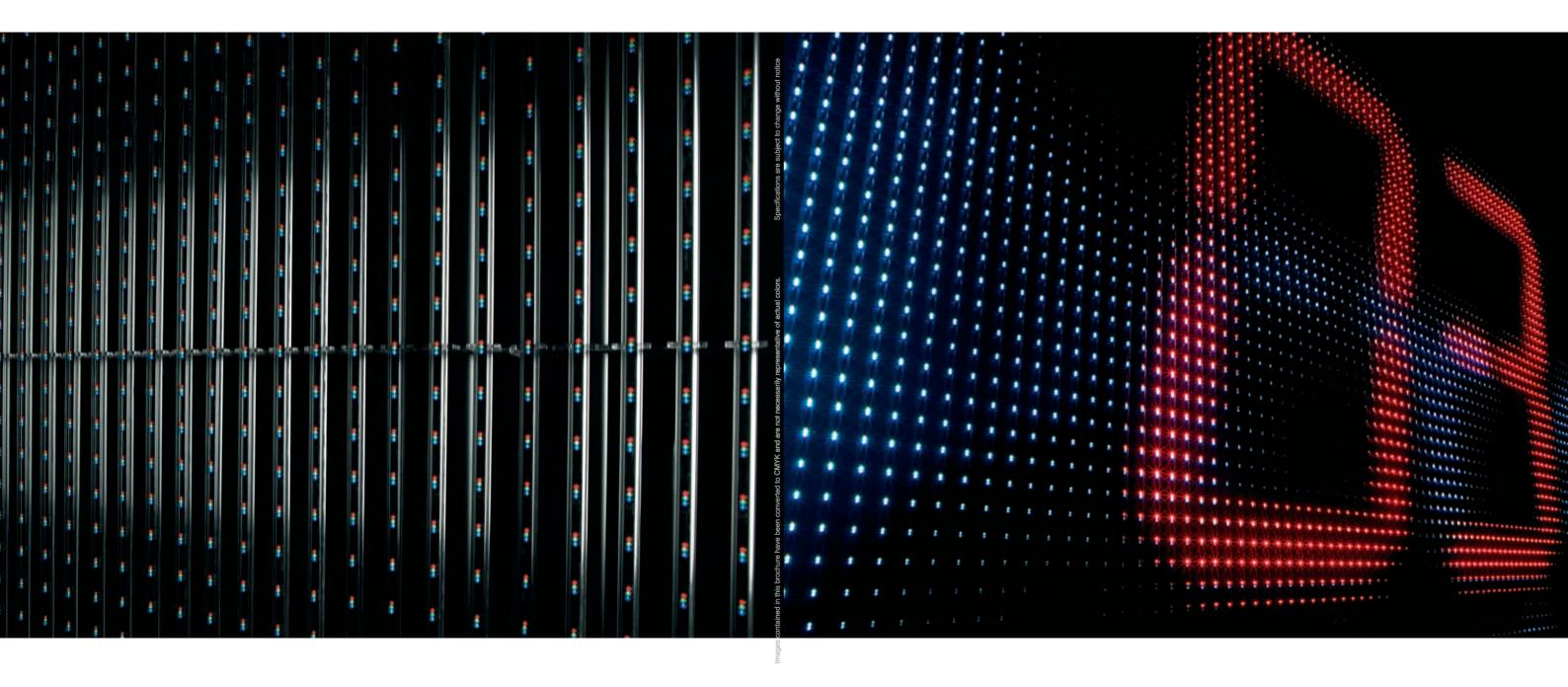
The LC Series









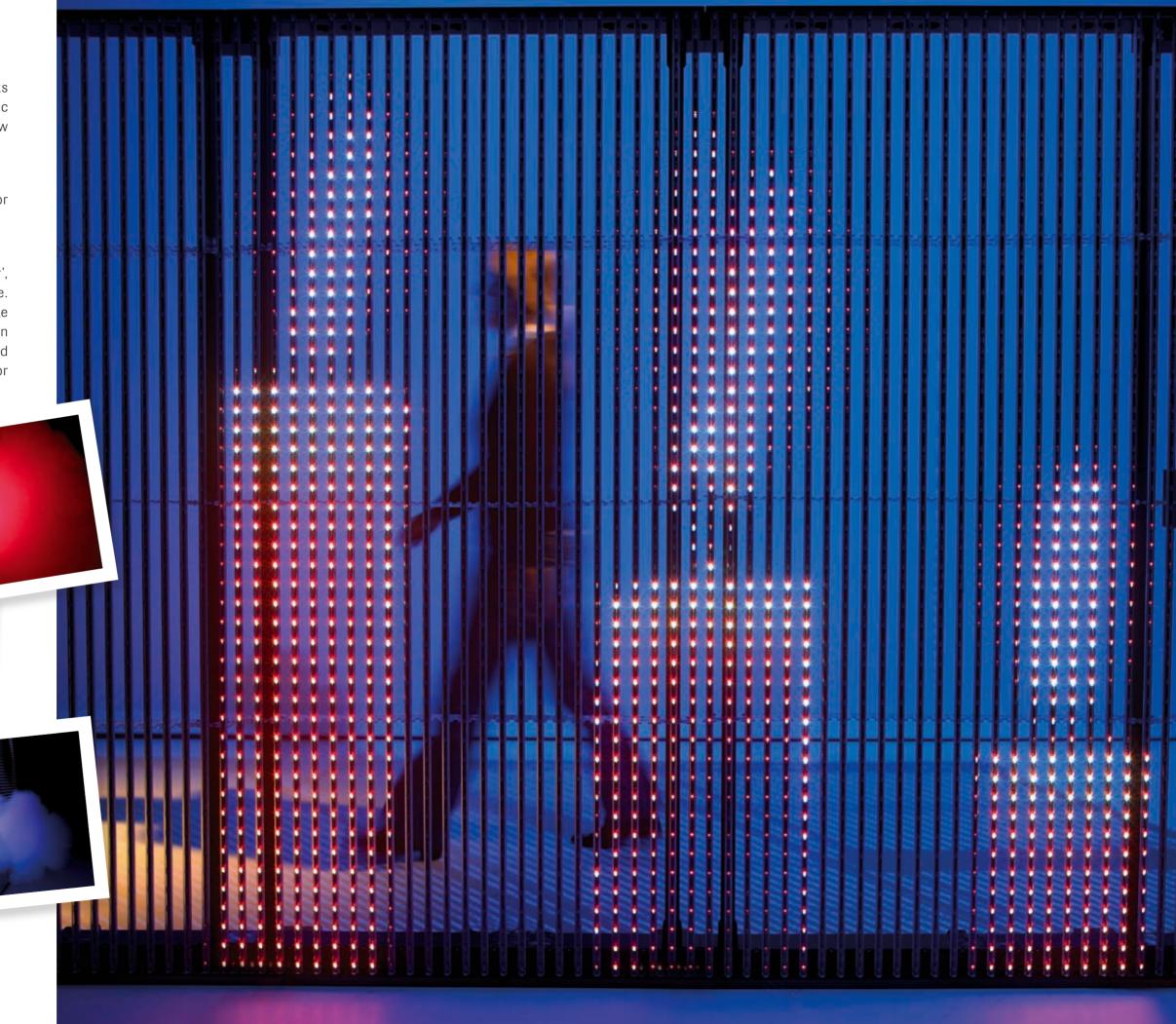
The LC Series is a semi-transparent, modular system of LED panels, perfect for displaying video and images. Designed for stage shows, TV studios and other commercial applications, the LC closely integrates light, video and set design, offering entirely new possibilities for staging.

Semi-transparent video

One truly innovative aspect of the LC series is its transparency. With LEDs encased in clear acrylic tubes, the screens are 60% transparent and allow light, air and effects to pass through them.

This opens up a whole new set of possibilities for lighting and stage designers.

Dim the panels and they seem to 'disappear', revealing objects or performers placed upstage. Light can be projected from behind and smoke effects made to emerge through the screens. In architectural applications video walls can be placed behind windows to allow sunlight into interior spaces.



Wow - it's bright!

The LC is an extremely bright video source. With an output of 1800 NITs (Cd/m²), the LC is clearly visible in daylight, making it suitable for large-scale and outdoor productions.

Excellent image quality

With a 40 mm pixel pitch, the LC offers excellent resolution without compromising on its light weight and transparency. A video wall's resolution is determined by its pixel pitch.

High resolution screens have a fine pixel pitch, typically around 6 mm. Low resolution screens can go up to 100 mm. The LC has an ideal balance at 40 mm, which means it remains lightweight, transparent and relatively inexpensive but is still tight enough to offer excellent image quality.



"Even during the middle of the day the screens were really bright. I had to back it off by the end of the day because my retinas were hurting."

Matt Arthur, Main Operator at One Big Weekend, UK. Lighting Design by Paul Normandale.

Extremely viewable

The LC portrays seamless images at thirty meters and beyond. Although still a useful effect at shorter distances, a simple rule of thumb is that in order to see an unpixelated image on an LED video screen, you need to be at a viewing distance of 750 times the pixel pitch. LC panels present a seamless image at about 30 m $(750 \times 40 \text{ mm} = 30 \text{ m})$ or 100 ft.

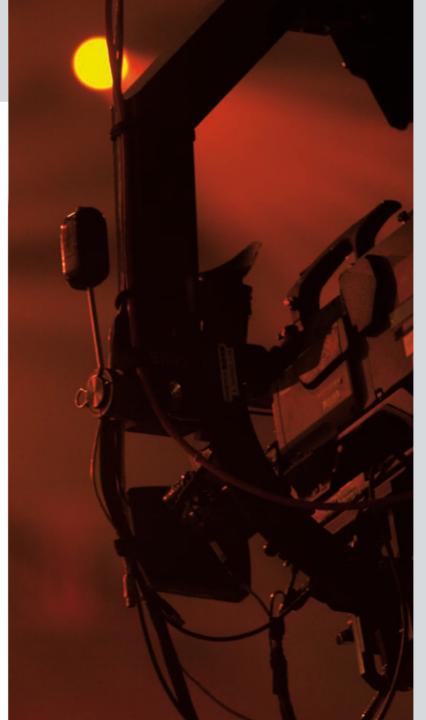


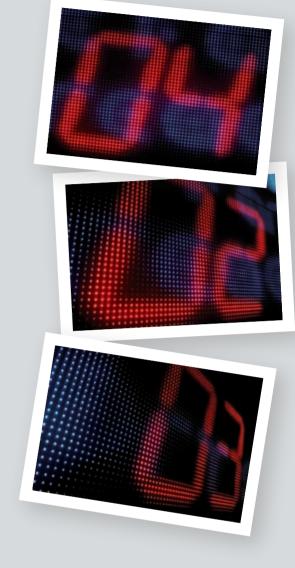
"The panels are very lightweight and an absolute joy to rig."

Lighting Designer Francesco Calvi at the Sydney Royal Easter Show, Australia.

Flicker-free video wall

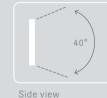
The LC can be genlocked using a DVI box available as an accessory, making it suitable for a wide range of TV and video applications.











Wide viewing angle

Another important feature of the LC has to do with the pixel design. While most LED screens use triangular configurations, the LC comes with ellipitical pixels. This offers a very wide, 100° viewing angle, a feature that is especially valuable for applications where you can cover not only the front but also the sides where viewers tend to miss out.





Easy assembly

You can stack or hang the LC Series seven units high (14 m/46 ft) and as wide as necessary. With standard Prolyte CCS6 conical truss connectors, connecting the lightweight units together is simple and the resulting structure is very sturdy. The construction of the panels means they are not affected by wind.



Simple logistics

LC units are built tough for the road and smart for easy set-up. With no external power supplies or drivers, each unit comes with everything built in - substantially reducing logistical costs and set-up time.

Worldwide compatibility

Each unit contains a switch-mode power supply that covers all worldwide voltages, so you are always ready to go - anywhere in the world.



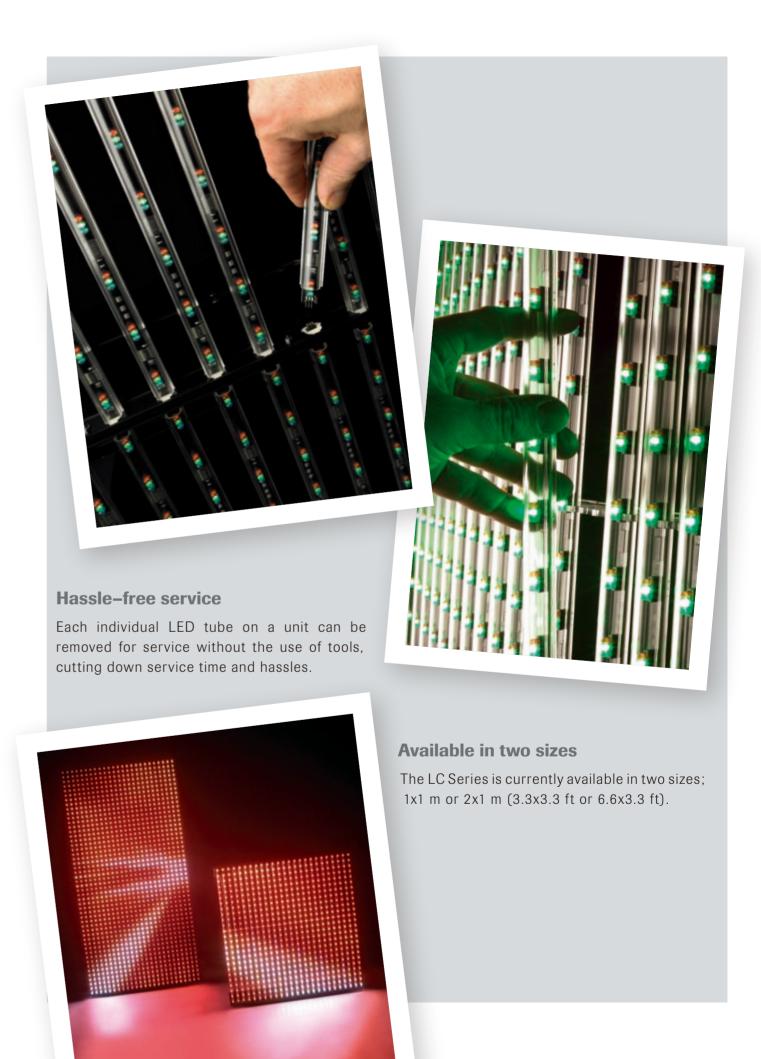
Cable management

Data and power can be daisy chained between frames with standard DVI and PowerCon cables so you don't have to run a separate cable to each frame from a control box. Daisy-chain up to five 2x1 m frames (LC2140) or up to 10 1x1 m frames (LC1140) on one power line (@230 V), and up to 6 frames via standard DVI-D cables on one link.

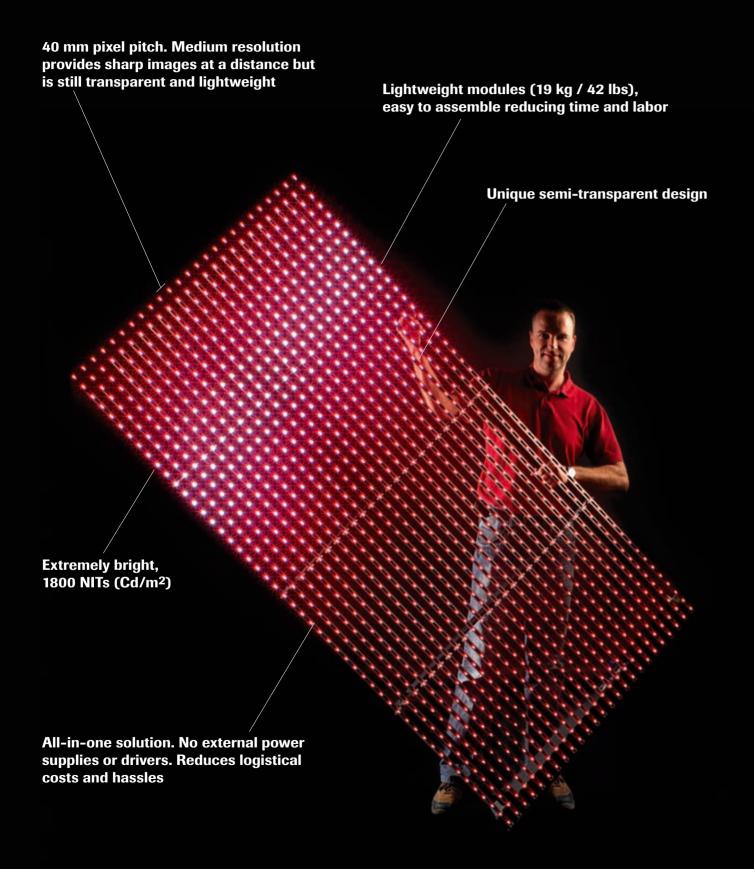


Designed for travel

The lightweight units can tour four frames to a flightcase, which means fewer flightcases and a reduction in shipping cost.



At a glance



Specifications

| PHYSICAL | | THERMAL | |
|---|--|---|---|
| Length: | 1000 mm (39.4 in.) | | ature-regulated, low noise) |
| Width: | 110 mm (4.3 in.) | Maximum ambient temperature (Ta max.): | 40° C (104° F) |
| Height: | 1004 mm (39.5 in.), LC 1140 | Minimum ambient temperature (Ta min.): | 0° C (32° F) |
| Height: | 2004 mm (78.9 in.), LC 2140 | Total heat dissipation (calculated, +/- 10%): | 1060 BTU/hr. (LC 1140), |
| Weight: | 14.3 kg (31.5 lbs.), LC 1140 | ζ, | 2140 BTU/hr. (LC 2140) |
| Weight: 19.4 kg (42.8 lbs.), LC 2140 | | ACOUSTIC | |
| CONTROL AND PRO | • | Noise level: <45 dBA for one panel at 1 m (3.3 ft.), ste | ady state, Ta 25° C (77° F) |
| Setting and addressing: | DIP-switch / addressing via LC Software | APPROVALS | |
| | | EU safety: EN 60825-1, EN 60950 | |
| VIDEO PROCESSING | | EU EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 | |
| Video signal processor: | Integrated | US safety: | ANSI/UL 60950-1 |
| Video signal: XGA | 1024 x 768 DVI-D (digital single link), 25 x 25 (LC 1140) or 25 x 50 (LC 2140) pixels displayed | , | SA C22.2 No. 60950-1-03 |
| Video signal frequency: | 50 or 60 Hz | INCLUDED ITEMS | |
| Genlock: Yes, (via Martin DVI buffer box) | | Prolyte® CSS6 conical couplers and threaded spigots | |
| PHOTOMETRIC DAT | TA | User manual: | P/N 35000196 |
| Light source: | 5 mm (0.2 in.) oval LED | | 1711 33000130 |
| Total output (max): | 1800 NITs (Cd/m²) measured outside LED tubes, | ACCESSORIES | |
| Total output (max). | Ta 25° C (77° F) | 3 m (9.8 ft.) power cable, 12 AWG, SJT, with PowerCon® NAC3FCA power input connector: | P/N 11541503 |
| Resolution, one fixture: | 25 x 25 pixels (LC 1140), 25 x 50 pixels (LC 2140) | Neutrik® PowerCon® NAC3FCA power input conne | ector, |
| Pitch (pixel center-to-ce | nter): 40 mm (1.6 in.) | cable mount, blue: | P/N 05342804 |
| Pixel per m ² : 625 | | Neutrik® PowerCon® NAC3FCB power output con | |
| Red dominant wavelength: $627.5 \text{ nm} \pm 2.5 \text{ nm}$ | | cable mount, light grey: | P/N 05342805 |
| Green dominant wavelength: 522.5 nm ± 2.5 nm | | PowerCon daisy-chain power cable, 1.4 m (4.6 ft.): | P/N 11850099 |
| Blue dominant wavelength: $472.5 \text{ nm} \pm 2.5 \text{ nm}$ | | PowerCon daisy-chain power cable, 2.25 m (7.4 ft.): | |
| Color resolution: | 14 bits per color | PowerCon daisy-chain power cable, 3.25 m (10.7 ft. | |
| Viewing angle: >100° horizontal, >40° vertical at 50% intensity | | DVI-D cable, 1.5 m (4.9 ft.): | P/N 91611265 |
| CONSTRUCTION | | DVI-D cable, 3.2 m (10.5 ft.): | P/N 91611266 |
| Panel frames: | Steel and aluminum | DVI-D cable, 5 m (16.4 ft.): | P/N 91611267 |
| LED tubes: | Acrylic | Martin DVI buffer box, LC series: | P/N 91611269 |
| LED tubes per panel: | 25 | Martin DVI splitter, 2-output: | P/N 91611280 |
| Transparency through panel (unmasked area): >60% | | Martin DVI splitter, 4-output: | P/N 91611290 |
| Color: | Black panel frames | Martin DVI splitter, 8-output: | P/N 91611281 |
| Protection rating: | IP 20 | Prolyte CSS6 conical coupler: | P/N 21021150 |
| INSTALLATION | | Threaded spigot for conical coupler: | P/N 08330125 |
| Orientation: | Any | Half conical coupler (used as floor-mounting option | - |
| Panel combination: | Up to 7 hung or stacked vertically, no limit horizontally | Four-unit flightcase for 4 x LC 1140: | P/N 91510110 |
| Panel interlocking: | Prolyte CCS6 conical coupler system | Four-unit flightcase for 4 x LC 2140: | P/N 91510040 |
| CONNECTIONS | | ORDERING INFORMATION | |
| Power in/out: | Neutrik® Powercon® | 4 x LC 2140, 2 x 1 m in 4-unit flightcase with 16 couplers and 24 spigots: | P/N 90354100 |
| Video in/out: | DVI-D single link (DVI-I dual link connectors provided) | 4 x LC 1140, 1 x 1 m in 4-unit | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| ELECTRICAL | , | flightcase with 16 couplers and 24 spigots: | P/N 90354110 |
| AC power: | 100-120/200-240 V nominal, 50/60 Hz | LC 2140, 2 x 1 m in cardboard box, | _ |
| Power supply unit: | Integrated, auto-sensing multi-voltage | with 4 conical couplers and 6 spigots: | P/N 90354120 |
| Main fuege: | Three 5 AT (I C 11/(n) three 10 AT (I C 21/(n)) | LC 1140, 1 x 1 m in cardboard box, | D/N 0035/130 |

Three 5 AT (LC 1140), three 10 AT (LC 2140)

with 4 conical couplers and 6 spigots:

P/N 90354130