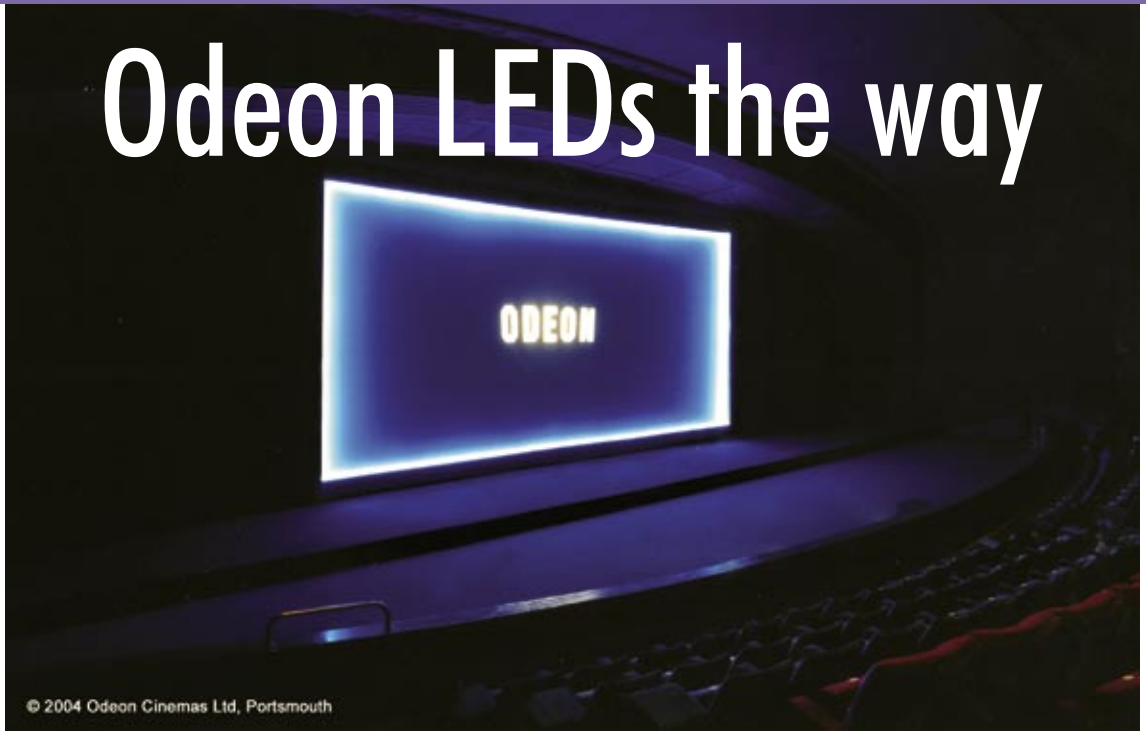


The Odeon, Leicester Square, one of the world's most recognisable cinemas and home to many a world premiere, recently ran a rather different 'world's first' - a new LED screen enhancement system from PowelLED, a sister company to F. Powell & Co.

Odeon LEDs the way



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The most recent installation
Odeon Portsmouth Screen 1

Installed between the screen and the motorised masking of the Odeon's Mezzanine screens, the LEDs are fixed to the motorised masking on the screen side so that whatever picture format is used the same effect can be created.

Better known as cinema screen engineers with more than 40 years experience, F. Powell & Co's new offshoot is dedicated to developing and expanding the use of their unique LED Light Strip®.

The LED Light Strip is a combination of the latest LED and extrusion technology which has produced a waterproof and shockproof flexible LED strip with up to 100,000 hours operational life and low energy use.

Traditionally the area for curtains and pageant lighting, the effect produced by the new LED Strip Light is truly stunning. Installed between the screen and the motorised masking of the Odeon's Mezzanine screens, the LEDs are fixed to the masking on the screen side so that whatever picture format is used the same effect can be created. A custom UPVC profile and steel clip system provided a fast, effective and above all, reliable, installation.

Another Odeon requirement was for start and end of show dimming - historically a problem with LEDs as the on/off tolerance is minimal and possible solutions costly. So PowelLED developed their own range of cost-effective dimmers. Fully compatible with existing house and pageant lighting dimmers, the PowelLED range work with either requiring only one two core cable to the nearest part of the circuit.

Since the Mezzanine screens installation the programme is continuing throughout Odeons nationwide with Portsmouth being the latest job completed.

Odeon's featured LED colour is blue but six other standard colours are available - amber, amber super bright, yellow green, red, pure green, white and warm white.

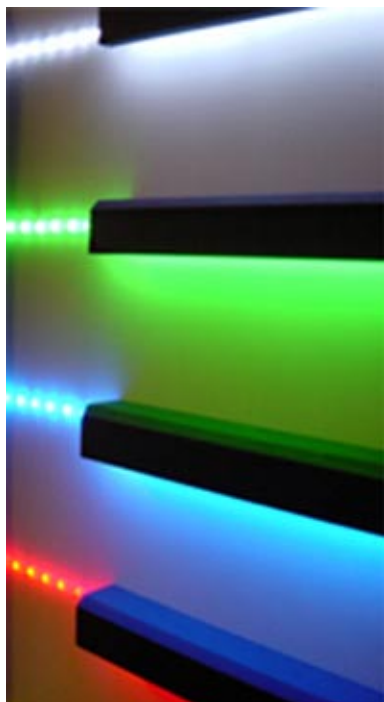
LED Light Strip comes in two profiles - 6 x 12mm and 5 x 8mm. Standard LED spacing is 27.8mm with alternative spacing - minimum 15mm and maximum 100mm - to order.

Supplied per meter and on spools of 90m, the LED Light Strip is cut to the required length using side scissors and depending on which side it is bent a radius of 1,4 and 4,8 cm may be achieved. Various connectors are available for connecting to a power supply, or to another strip and several fixing materials like U-profiles, saddles and nail clips are available. The LED Light Strip's performance (brightness) is unchanged by temperature variations functioning in a range -20 to 40°C and the maximum temperature of the LEDs is -40 to 85°C. Various DC voltages are available; 12V, 24V, 110V and 230V.

Developed by PowelLED the RGB/Dim controller has three outputs, one for each colour, and enables all colours to be created by dimming one or two of the three colours.

Each output has a maximum current of 8A to which a maximum 80m length of 24V LED Light Strip can be connected. The output channels are controlled by using a DMX152 signal which allows the light to be dimmed in real time. The controller can be connected to a computer and programmed with the RGB Controller software. It is also possible to record a program on the controller, so this program can be repeated, stand alone, over and over again.

Other applications include indirect lighting, stair lighting - a number of aluminium stair profiles are available - decorative lighting, routing, and all manner of interior and exterior signage.



Details:

Neil Fryer / Colin Riley, PowelLED, Collec House, Billington Rd, Leighton Buzzard, Beds LU7 9HH, UK
e-mail: info@powelLED.com
www.powelLED.com