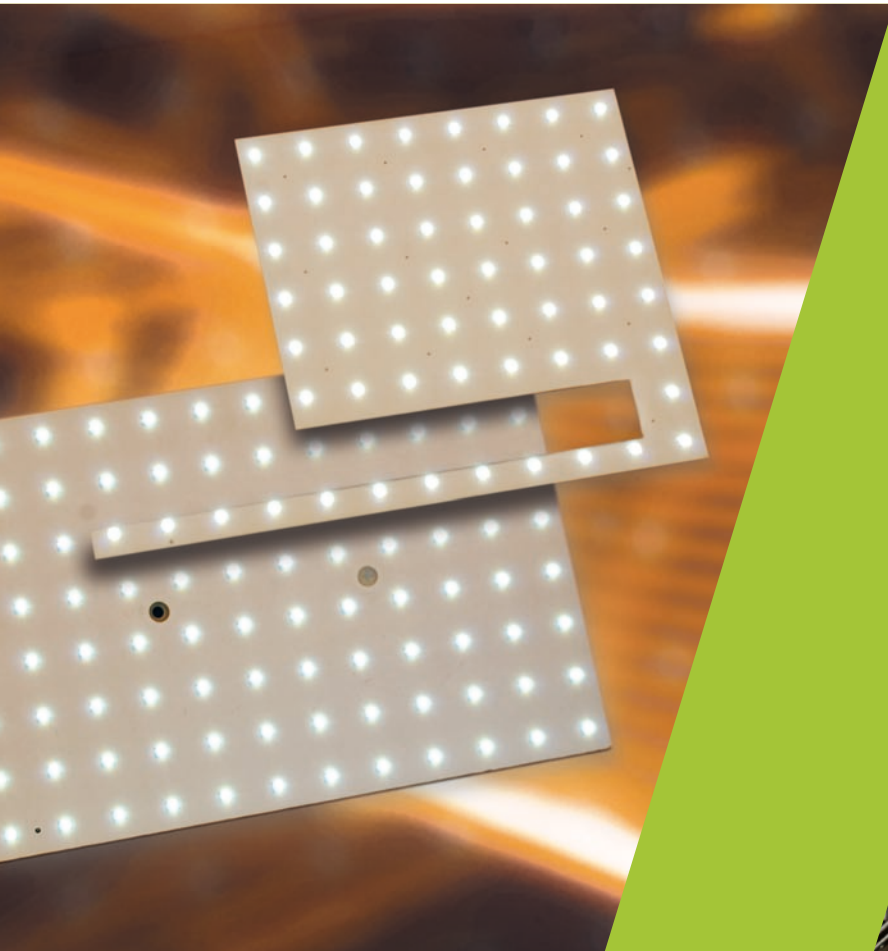# Chimera System

Integrated LED Video system for Installations

PixelPerfect Video and Graphics

G-LEC ®

Visual Technology #

The system fits around doorways and bridges

Facts

- The first 'cut to fit' LED Video system
- Can accommodate large and small shapes and apertures
- Super bright SMD LEDs
- Custom installation only
- Brilliant white or RGB

Applications

- Museums
- Themed spaces
- Hotel and corporate reception areas
- Interior design
- Exhibition stands

Overview

The Chimera system comprises SMD LEDs mounted on printed circuit boards that are designed so that they can be 'cut to fit' without cutting the power to the LEDs. The PCBs come in two sizes: standard (480 mm x 320 mm in the example shown) and quarter size. The standard size is ideal for larger areas, while the quarter size, or 'LED only' board, is used for more difficult shapes, as it can be cut to fit the smallest of spaces while retaining the ability to control all LEDs individually.

For ease of installation, an LED only board can be substituted for a quarter of the standard board. A maximum of 12 standard boards are controlled by one controller board, whilst one S-Drive (external converter box) provides DVI and USB inputs, controlling a maximum of 400 controller boards. Configuration is via a PC or laptop with configuration software. Content and external media server are supplied by the client.

Display

As each project is custom built, the optimum pixel pitch is determined by the individual client's needs. The Chimera system can be used in the standard board format, or trans-formed into an architectural façade with the simple addition of panes of sand blasted glass placed in front of them.

S-Drive

The Drive Box transmits video and control data to the system via fibre optic cables. The configuration PC or laptop is not required during the operation of the system.

Speed

The DVI input is transmitted to the configured display positions at full video speed via fibre optic cables which are daisy chained between boards.

Reliability

The Chimera system is based on G-LEC's tried and tested technology that is used daily in the demanding conditions found on stages and in studios around the world. Both hardware and software are designed to be hardwearing and robust, while high specification cables, connectors and electronic and mechanical components ensure the reliability required for daily use in long term installations such as museums and themed spaces.

Customisation

All Chimera installations are custom designed. The boards and LEDs can be supplied in almost any colourway, with brilliant white or RGB LEDs against a white, black or coloured background. The pixel pitch can also be customised to suit individual client's needs. Special under-construction, profiles and spiders for seamless assembly can be provided.

Specifications

Size	standard board: quarter / LED only board:	480 mm x 320 mm (24 x 16 px)* 240 mm x 160 mm (12 x 8 px)*
Pixel pitch		20 mm*
Resolution		2500 pixel/m²*
Luminance		1750 nits (cd/m²)*
Pixel luminous intensity		700 mcd*
Colour temperature		5600°K*
Angle of viewing		50% brightness: 120°
Power consumption/area		100 W/m²*
Operating temperature		-25°C to 70°C
Humidity		5-95%, non-condensing
Ingress protection		N/A. For use indoors or in customised enclosures only.
Display plane		Any board or group of boards can be placed at any position on a virtual plane, as defined by the configuration software.
Customisation		Any board can be partly cut (full size standard board) or totally cut (quarter size board) to accommodate shapes, such as gaps or obstacles, without losing functionality.

*applies to sample shown overleaf, may vary depending on customer's requirements

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