# Solaris⁺

## Hanging 360° LED Video curtain
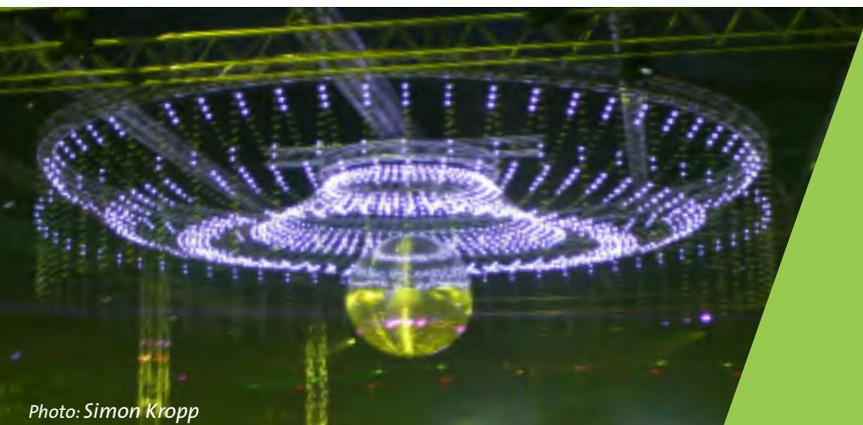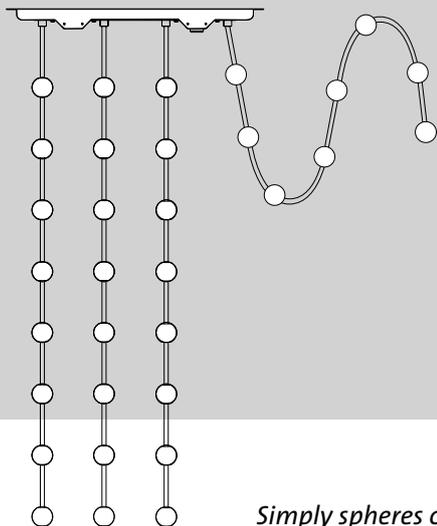## for Events and Installations

*Photo: Simon Kropp*

*Photo: Simon Kropp*
**Brilliant balls on ropes**

*Simply spheres on a flexible line.*

## Facts

- Uses G-LEC's ultra reliable video distribution and drive technology

- 40mm diameter spheres with white opaque diffuser give brilliant 360° viewing

- 120mm between each ball

- Free hanging lines up to 8 metres in length

- Free form 3 dimensional shapes can be easily created

- Ultra-bright LED's with 16 million colors

- Full speed video and graphics

- Flexibility gives transparency for wind, light and audio

- Integrates with G-LEC Phantom

## Applications

- Stage element for intimate or large concert productions

- Product and stage reveals

- Interior design for clubs, museums and themed environments

- Exhibition stands

- Interactive displays and attractions TV shows

- Video art projects

- Freeform organic presentations

## Introduction

Solaris+ is an extremely cost effective way to furnish eye catching video and graphic effects in entertainment and architectural projects. The visual effect of the 40mm diameter ´pixel balls´ is remarkable. 360° viewing allows designers to set their imagination free – place the viewers in the middle of Solaris+, or even surround the audience with Solaris+. Solaris+ can be gathered up to form openings, hung in drapes or fixed to hoists to move the whole Solaris+ curtain in 3D space.

Solaris+ is the product for television, stage, corporate presentations or interior design for clubs, museums or wherever else you want to add an extra level of interactivity.
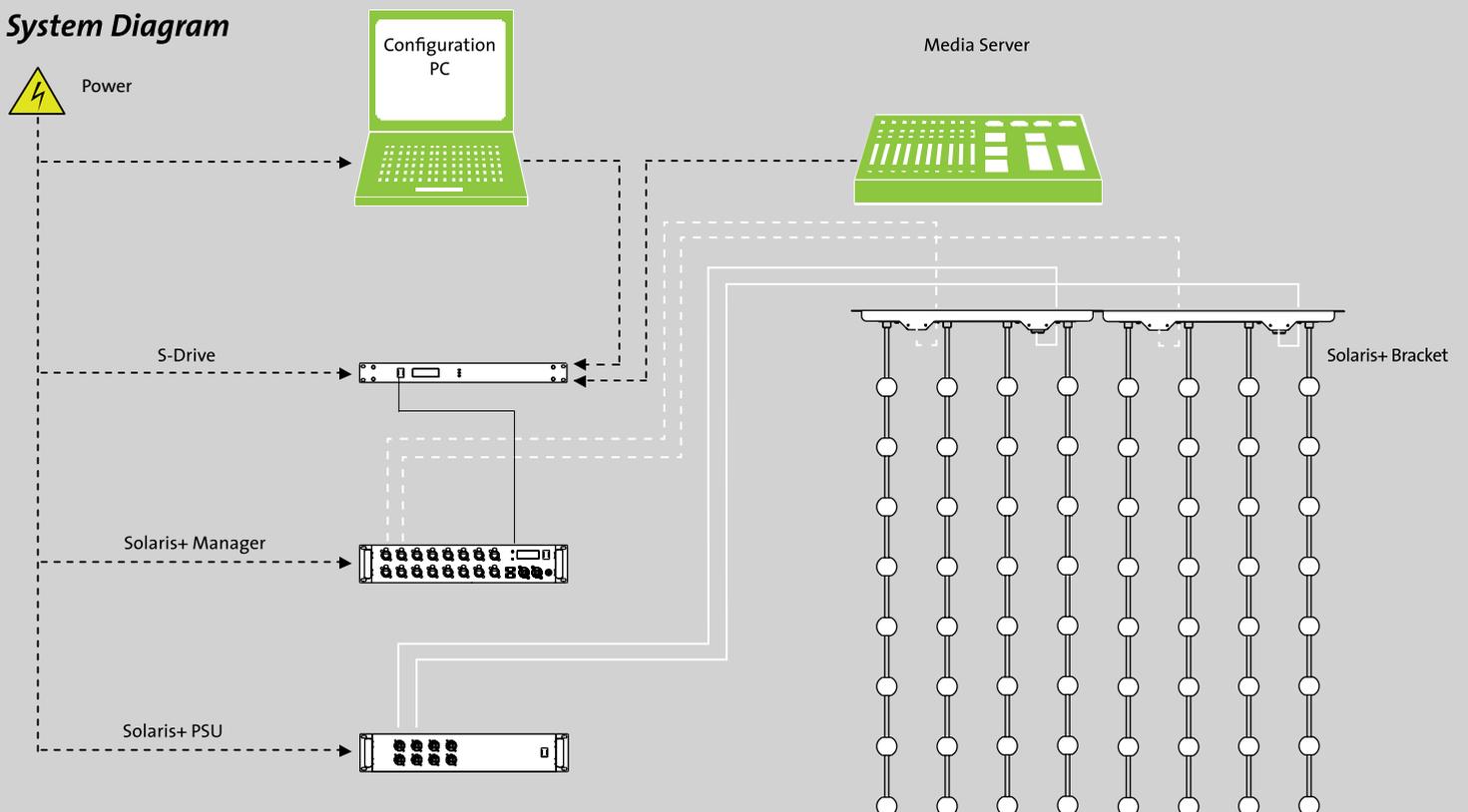
## Display

The basic elements of Solaris+ are 40mm diameter balls with white opaque diffuser mounted at 120mm centres on a flexible cable line. One standard line has a length of 96 cm, assembled with 8 balls, and has quarter turn connectors at each end. Ropes may be of any length up to a maximum of 8 metres (64 balls). The ropes can be curved or wound into any shape.

When a number of ropes are hung at 120mm centres, in 2D or 3D groups, Solaris+ will display G-LEC´s renowned Pixel Perfect videos and graphics. There is absolutely no limit to the number of ropes that can be used in one installation and therefore, no limit to a designers' creativity.

## Reliability

Because G-LEC display equipment is used daily in the demanding conditions found on stages and in studios around the world, the technology, both hardware and software, is designed to be hard wearing and robust. G-LEC uses high specification cables, connectors, electronic and mechanical components to ensure the reliability needed for large live performances.

## Processing

The G-LEC S-Drive processor is used to configure the Solaris+ system. This configuration is a simple and straightforward process which uses a laptop or PC computer which is then removed once the system is set up. The S-Drive processor takes a DVI-D video input, which is then transmitted at full video speed to the Solaris+ ropes via fibre optic cables.

## System Diagram

Configuration PC

Media Server

Power

S-Drive

Solaris+ Manager

Solaris+ PSU

Solaris+ Bracket

## Integration

Solaris+ shares the same control and video distribution technologies as Phantom, making it possible to design an integrated media show using different display elements and textures with a single control and media input. Different pixel types and resolutions can be mixed freely and coordinated by the central G-LEC processing equipment.

## Technical Specifications

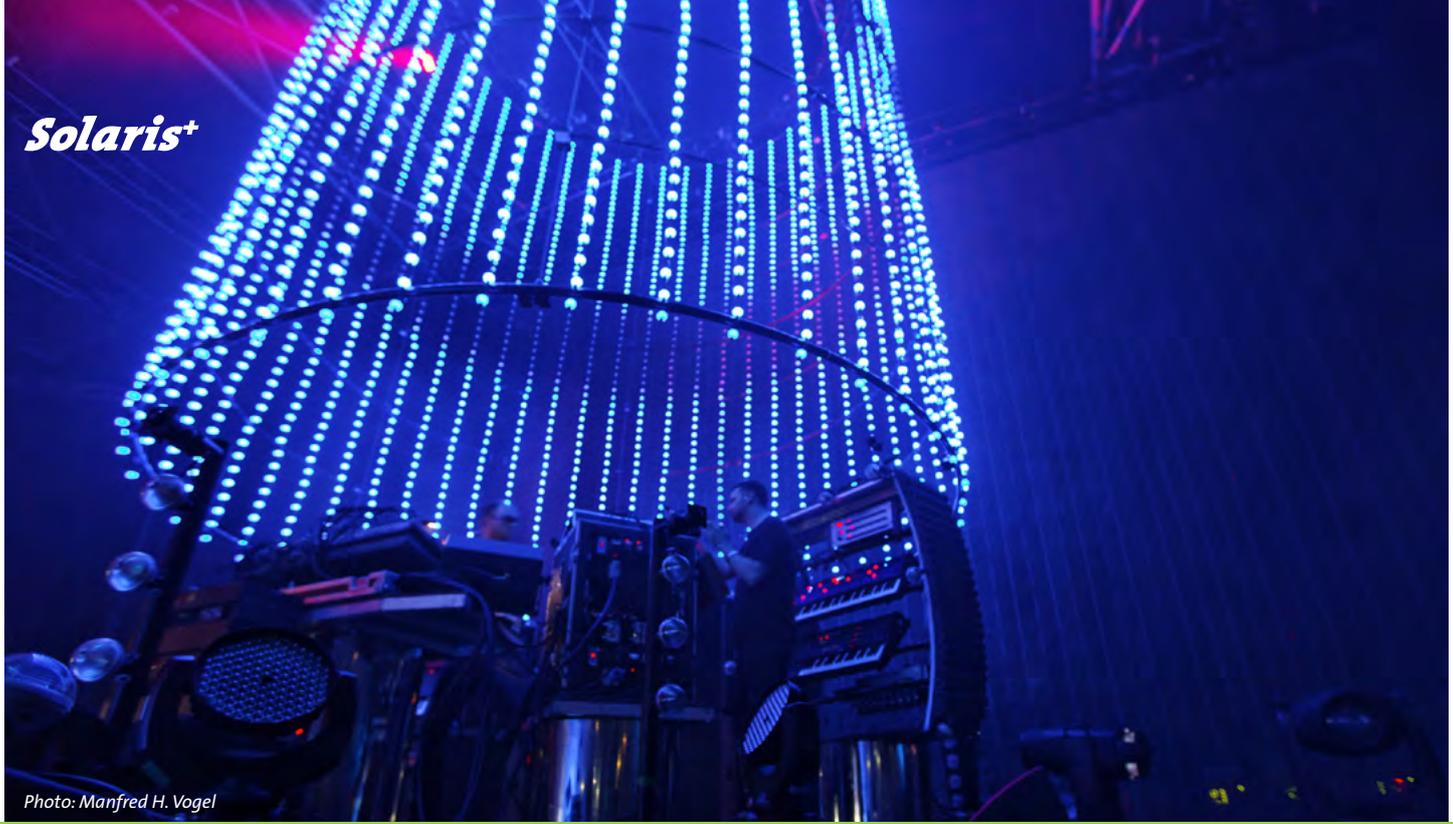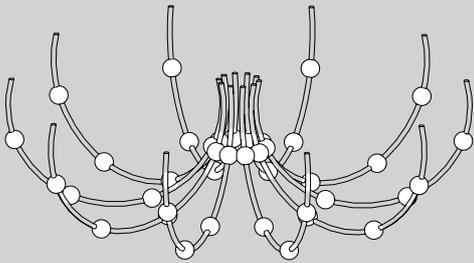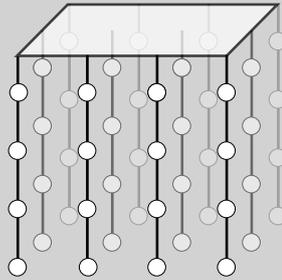| | | |
|---|---|---|
| **Weight:** | Solaris+ Line | 360g / 0.79 lbs. per line |
| | | 2.9kg / 6.39 lbs. per square metre (120mm pixel pitch) |
| | Solaris+ Manager | 4kg /8.8 lbs. |
| | Solaris+ PSU | 6kg / 13.22 lbs. |
| | Solaris+ Bracket | 620g / 1.37 lbs. |
| **Dimensions:** | Solaris+ Line length | 960mm / 37.8 inches |
| | Solaris+ Manager | 19" / 2U height, 230 x 430 x 88 mm / 9.05 x 16.9 x 3.5 inches supplies 16 Solaris+ Brackets |
| | Solaris+ PSU | 19" / 2U height |
| | | 300 x  430 x 88 mm / 11.8 x 16.9 x 3.5 inches |
| | Solaris+ Bracket | 480 x 50 x 40 mm / 19.7 x 2 x 1.6 inches, |
| | | supplies 4 Solaris+ Lines, each up to 8 sections in length |
| **Optical** | Pixel Pitch | 120mm / 4.7 in |
| | Pixel Type | Opaque RGB ball, 40mm diameter |
| | Colors | 16 million colors |
| | Viewing angle | 360° |
| **Electrical** | Power Consumption | 0.5 Watts per pixel at 100% output |
| | Solaris+ PSU | |
| | Input Voltage | Auto sensing 100-240VAC, 50/60 Hz |
| | Output Power | 2 x 320 W |
| | | Up to 120 Lines on max. 8 brackets |
| | Solaris+ Bracket | |
| | Power | 130W max (4 x 8 lines) |
| | Data Outputs | 4 x 8 lines |
| **Construction** | Ingress protection | Solaris+ Line & Bracket:     IP32 |
| | | Solaris+ PSU & S-Drive:     IP20 |
| | Operating temp. | -10°C to 45°C / 14°F to 113°F |
| | Humidity | 5% -95% non-condensing |
| **Video source** | | DVI-D signal is supplied to the S-Drive. |
| | | Data communication from the S-Drive to the Solaris+ Manager(s) is done with fibre optic cables. |
| | | For further information please see the S-Drive datasheet. |
| Class A | | This is an ITE Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. Not for use in residental areas! |

# Solaris+

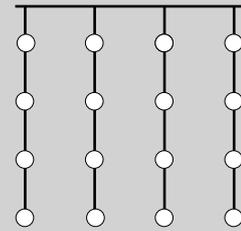Photo: Manfred H. Vogel

The **Solaris+ System** consists
of four or more lines/bracket

can be used like a chandelier or...                build like 3-D objects or...                build like 2-D wall

**Head Office G-LEC Vision GmbH**          Tel: +49 (0) 7248 92740-00 info@g-lec.com