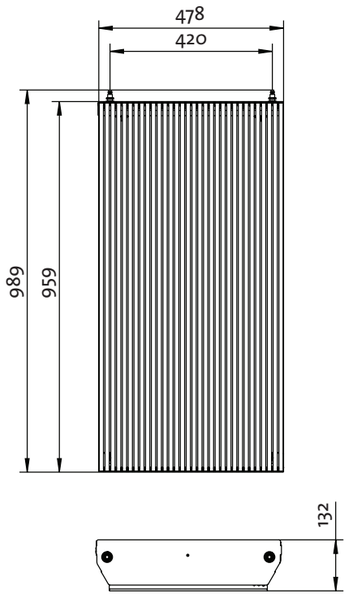
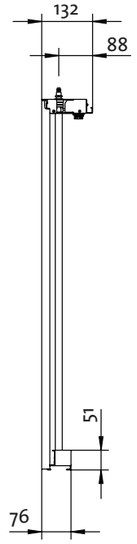
Phantom 15

front view



side view



top view

Phantom 15

High Resolution Transparent LED Display

PixelPerfect Video and Graphics

G-LEC Visual Technology

Photo: Ralph@Larmann.com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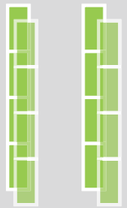
Transparent to light, audio and wind

The ***Phantom System*** consists of two or more frames and...

can be used like a screen or...

combined with Phantom 30 or...



moved like curtains or...

... built from 3D objects

LEDs protected by plastic tubes, a thin frame and transparency


Photo: Ralph@Larmann.com

Facts

- Real transparency over the whole surface of the panel, with no bulky power supplies in the center of the frame.
- State of the art flexible-pcb technology „hides“ LED drivers and ensures extremely narrow LED lines.
- Phantom 15 is proud of its legacy and therefore it works seamlessly with its „older“ brothers the Phantom 30 and Phantom 60.
- Phantom 15 is able to totally integrate with other Phantom resolution screens, and so a uniform seamless mixed screen of different pixel pitches is easily achieved.
- Patented QuickLock allows for fast assembly and disassembly.
- Phantom 15 uses the newest and most innovative LEDs on the market ensuring exceptional contrast and extreme brightness at the same time.
- Asymmetrical frame design ensures easy curving.
- Combined power and data cable makes free placement of the panels almost seem trivial.
- Panels are daisy chainable with only one 180mm cable needed.
- Video is sent to the panels via Gigabit Ethernet ensuring high pixel counts on one communication string.

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Introduction

G-LEC, the originators of the semi transparent video panel are proud to introduce Phantom 15 a video panel that uses state of the art technology to bring the best screen brightness in a new 15mm pixel pitch format.
Phantom 15 offers a new level of flexibility at a higher resolution than has previously been available. It incorporates seamlessly with other panels in the Phantom range of different resolutions. It does not compromise on its heritage, of maximum transparency, lightweight construction and fast assembly and disassembly time. And as you would expect, it brings a whole range of new innovations to the market as well.

Transparent and Lightweight

Incorporating the latest flexible PCB technology, Phantom 15 is able to hide the LED drivers that it uses, to ensure very narrow lines of LED's and therefore maximizing transparency. This transparency remains clear across the entire frame and doesn't get interrupted by bulky power supplies or other boxes, destroying sightlines.

Data Transport

An important part of any video panel system is the data transport system that is used in order to keep latency to an absolute minimum. From the S-Drive processor units, the Phantom 15 uses a new Gigabit Ethernet data infrastructure which allows high pixel counts to be sent using a single data line without need for additional buffering or other external hardware boxes.

Leading LED Technology

As you would expect Phantom 15 uses the latest LED technology. The LEDs that we use have been specifically chosen to give the highest brightness as possible, along with the best contrast ratio. The combination of these two factors make it ideal for use in high, as well as low, ambient light environments and we all know that today's performance stages are not getting any dimmer. In order to ensure that it keeps shining through, the Phantom 15 boasts a luminance of 6000 nits.

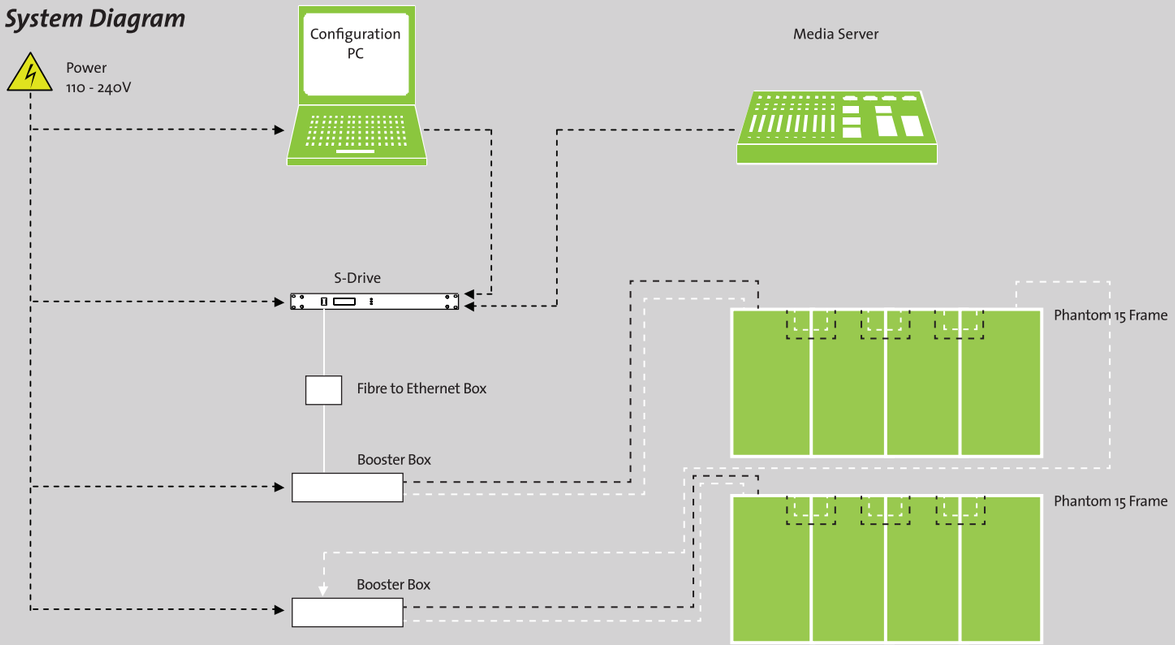
Creative Solutions

These days, there seems to be no such thing as a 'standard' video screen anymore. Designers and artists are constantly looking to bend, shape and form the panels they use into any shape possible. The Phantom 15 has been designed with this in mind and features an asymmetrical shape to ensure easy curving and flexibility of placement for designers and artists alike.
Using a combined cable for both power and signal ensures that connecting separated frames remains as simple and straightforward as possible, and maintaining clear sightlines.

Rigging

Phantom 15 is the latest addition to the range, but can work seamlessly with existing Phantom panels and integrate with both Phantom 30 and Phantom 60 screens. Mixing screens of different resolutions is straightforward but gives the designer far more flexibility and creativity in achieving screens of varying resolution. Naturally we have kept the best parts of the original Phantom screens, including the patented QuickLock mechanism for securing panels together, but now we have added a twist in that both ends now have female connectors to give even more freedom of operation. With panels mounted next to each other, connecting them is done through a daisy chain system using a single 180mm cable, making it fast and easy to rig and, more importantly, to de-rig.

System Diagram



Technical Specifications

Dimensions (LxWxH):	132mm x 478mm x 989mm / 5.2 x 18.8 x 38.9 inches
Weight:	8.5kg / 18.7 lbs.
Transparency:	>60%
Power consumption:	420 Watts
Ambient Temperature range:	-25˚C to 70˚C / 13˚F to 158˚F
Humidity:	5% to 95%, non condensing
Luminance:	6000 nits (cd/m²)
Ingress protection:	IP32
Pixel luminous intensity:	>1450 mcd
Pixel pitch:	15mm / 0.59in
Resolution:	32 x 64 pixels (2.408 pixels/panel)
Colors:	48 bit color depth giving 281 trillion colors
Viewing angle:	115 degrees
Video input:	DVI-D Gigabit Ethernet - will come from S-Drive control unit via Phantom 15 Booster
Refresh rate:	400 Hz @ 16 bit resolution, 3.2 Khz @ 13 bit resolution
Booster Box:	Combines Power & Data into one multifunctional cable