

Semi-transparent Led Curtain

Clay Paky - the all-time leader in professional show lighting with a structured worldwide sales network-launches an exclusive fascinating new product MIRAGE, which is an innovative semi-transparent LED display with video technology.

MIRAGE is not built physically as a solid barrier, but allows you to see what is behind it and allows light beams to pass through it in both directions. It is a see-through display, with a structure consisting of thin horizontal bars alternated with gaps which give it an approximately 50% transparency ratio.

Modular architecture, also for outdoor use

The display consists of 640x640 mm square modules. Each module contains its own power supply and control electronics, and the modules may be daisy-chained together. The system architecture is extremely simple. The modules may be put together into screens of every shape and size. All that is needed to complete the system is the control interface and a standard computer for configuration and providing the video contents. MIRAGE is built







to be used both in and outdoors. The panels have IP65 protection in front and IP54 on the rear. Each panel has a special waterproof rustproof coating.

A LED display designed for rental companies

MIRAGE is a particularly lightweight strong LED display that is easy to set up and disassemble. It was specially designed for touring

shows and events. The aluminium and steel structure optimizes strength and makes it lightweight. Each panel weighs only 5.7 kg (14 kg per square metre) and the simple hanging system means a single person can mount them on rigs in a few minutes. These characteristics are highly appreciated by roadies and riggers, both during assembly and dismantlement.

SMD technology for ideal brightness even in broad daylight

With a brightness of 2350 NIT, the animations projected by MIRAGE are rich and vibrant, and perfectly visible in any outdoor lighting conditions, even in broad daylight. The colours obtainable are almost infinite, and can be further extended by colour temperature calibration.



The LEDs used are full-colour SMDs (surface mounted diodes) with the most advanced technology in terms of power, luminous efficiency, colour mixing, strength and life. Every pixel is a microscopic flat RGB LED unit, completely built into the structure. This ensures a perfect picture readability even at large viewing angles and long distances.

Magic of the 'curtain' system

The actual pixel pitch is 20 mm, with a density of 2500 LEDs per square metre. It has a "curtain" architecture, since the panels are hung from above, and the parallel LED bar structure ensures about 50% transparency.

Set and lighting designers may create charming scenic effects. They may add backlighting with

washlights, pierce the screens with spot or beam lights, or create three-dimensional effects using screens with different resolutions overlapping on different planes.

The 20 mm pitch is the result of a very careful choice that takes into account the typical viewing distance at shows and events and combines opposing needs, such as picture readability and transparency, lightness and strength. A smaller pitch would lead to a picture with higher resolution, but the screen would lose most of its transparency and be much more expensive.

High performance with minimal maintenance

For its scrupulous mechanical and electronic design the panel cools by convection, i.e. naturally without the use of fans. This means total silence

and greater reliability since there are no moving mechanical parts. The average life of the LEDs is about 50,000 hours, which is one of the longest in this product category.

Latest generation electronic control

The MIRAGE's electronics are an essential component and guarantee precise control. They exploit the luminous efficiency, bring out the depth of the colours, and guarantee fast perfectly uniform signal transmission over the whole LED screen. The RGB control system allows colour temperature adjustment so the screen can meet the needs of different applications, such as at shows, in TV studios and at the theatre. It is also possible to adjust the operating frequency to prevent flickering.

A high use LED screen, with exceptional return on investment. Thanks to its specifications and ease of handling and use, the MIRAGE display is suitable for a great variety of applications including small and large events, live shows and in TV studios. The reasonable cost of the control system means the panels you have can be used in two or more events at the same time. Their strength and light weight ensure long life and minimal maintenance costs. All this results in a quick return on investment and much more.

Specifications

Mechanical

- Module size 640 x 640 x 70,5 mm
- Module weight 5750 gr
- Weight per square meter 14 Kg
- LED bar aluminum
- Support frame steel
- Finishing black colour
- Protection grade IP65 (front) / IP54 (rear)
- Cooling convection/natural

- airflow (no fan)
- Working position any
- Supported load (vertical) 100 Kg (17 modules)

Electrical

- Power supply AC 220 V, 50/60 Hz
- Power consumption max 170 W/module (max 475 W / sqm)
- MTBF >= 1000 h
- Ambience working temperature from -20° to 55°C
- Ambience humidity 85% @ 25°C / 65% @ 40°C

Video display

- LED type High Brightness full-colour SMD
- Resolution 32 x 32 pixel per module (total: 1024 pixel)
- Pixel pitch 20 mm
- LED Population 2500 LED/sqm
- Luminous flux 2.350 cd/sqm (NIT)
- LED life-time 50.000 h
- Colours 16,7 millions with additive RGB colour mixing
- Gray scale 14 bit
- Refresh rate < 600 Hz
- Colour calibration using the

- control software
- Input video max. resolution: 1024 x 768 pixel
- Viewing-angle 170°
- Dead Pixel Ratio < 0,002

Control system

- Dedicated interface for configuration and signal feed
- PC - interface connection data cable
- Interface to module connection CAT5 cable
- Module to module connection CAT5 cable
- Display maximum size up to 64 modules width (41 m) and up to 40 modules high (25.6 m)
- Supported video formats DVI and HDMI adapted to DVI
- PC Software 8th generation
- Software functions display configuration, contents feed, colour calibration, intensity adjustment, system settings. ■

Courtesy : Clay Paky