

Ultra thin & light
Slim Luminous Panel
8mm overall depth

hansen
technologie · elektronik · licht



Luminous Panels

... providing light in slices

Low weight
Extremely thin design
Custom shapes and sizes

Luminous Panel

The **hansen Luminous Panel** is a very flat, large-surface luminaire for built-in purposes. The **Basic** and **Eco versions** are suitable for both indoor and outdoor installation, whereas the **Slim** and **Power versions** are suitable for indoor use only.

Typical applications

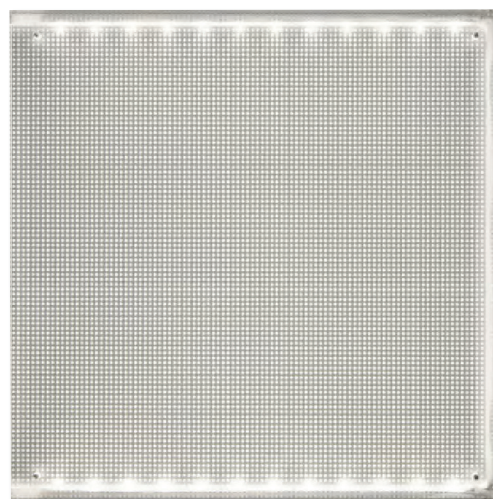
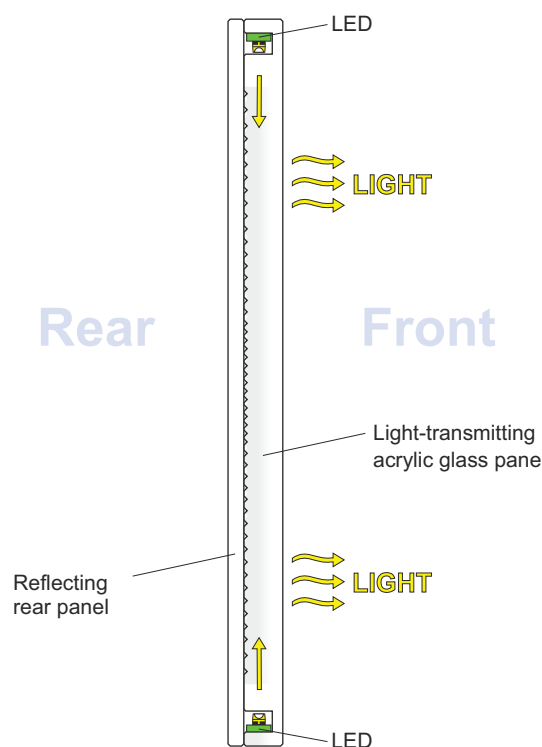
- **Lighting element** for walls or ceilings
- **Glare-free wall luminaire** for kitchens and bathrooms
- **Illumination** of decorative glass elements
- **Backlighting** of artificial stone, acrylic or textiles
- **Illumination** of flat light boxes
- **Light for traffic signs, pictograms, direction signs**
- **Double-sided illumination** of signs and boxes
- **Recessed luminaires** in 600 mm or 625 mm grid ceilings

Advantages at a glance

- **Custom dimensions:** The Luminous Panel is made to customer specification only. Additional features (e.g. round or oval shapes, rounded corners, cut-outs, etc.) are possible as well.
- **Extremely thin:** The panel has an overall depth of only 8 mm in the Slim version, 11 mm in the Basic and Eco version, and 13 mm in the Power version.
- **Controllable:** The brightness or colour temperature of the Luminous Panel can be harmoniously dimmed with our innovative remote controls. RGB or RGB-W control is also possible.
- **Low energy consumption:** Thanks to modern LED technology, the Luminous Panel has a very low power consumption of 25 watts per square metre, i.e. a Luminous Panel of 2 m² would have the same energy costs as a small candle-type incandescent light bulb.
- **Different colour temperatures:** The Luminous Panel can be supplied with warm (2,700 K, 3,000 K), daylight-like (4,000 K, 5,000 K) or cool white light (6,500 K).
- **Mixing of warm and cool white light:** Allows the generation of daylight scenarios.
- **Coloured light:** The Luminous Panel can also be fitted with coloured or RGB-(W) LEDs allowing attractive colour changes or impressive light scenes to be implemented.
- **Low maintenance:** The light sources, i.e. the LEDs, do not have to be replaced during their entire service life of approx. 50,000 operating hours.

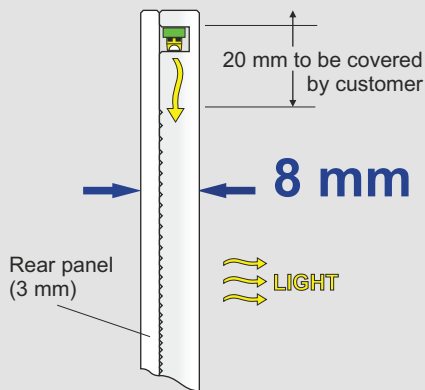


Sectional view of the hansen Luminous Panel



Available Versions of the Luminous Panel

Slim

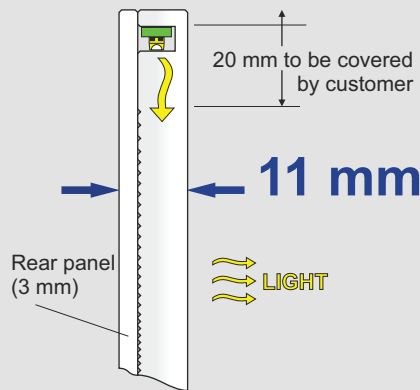


24 V

Max. height	1,000 mm
Max. width	2,000 mm
Overall depth (thickness)	8 mm
Weight per m ²	9.5 kg
Operating voltage	24 V
Wattage per m ²	25 W
Luminous flux per m ²	1,400 lm
Degree of protection	IP20
Conformity	CE
Dimmable	yes
Available without rear panel	yes
Available with 3 mm opal cover	yes

Technical data for 1 m², illuminated from two sides

Basic / Eco

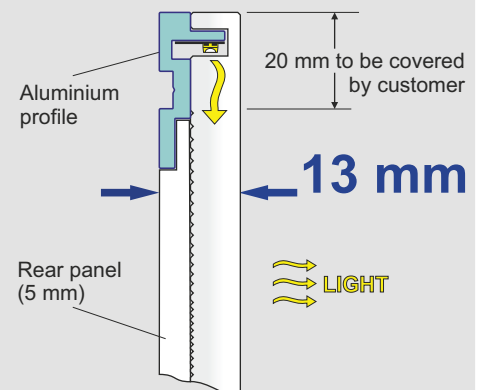


12 V

Max. height	1,500 mm
Max. width	3,000 mm
Overall depth (thickness)	11 mm
Weight per m ²	13 kg
Operating voltage	12 V
Wattage per m ²	25 W / 12.5 W
Luminous flux per m ²	1,400 lm / 700 lm
Degree of protection	IP20
Conformity	CE
Dimmable	yes
Available without rear panel	yes
Available with 3 mm opal cover	yes

Technical data for 1 m², illuminated from two sides

Power



24 V

Max. height	1,500 mm
Max. width	2,000 mm
Overall depth (thickness)	13 mm
Weight per m ²	15.5 kg
Operating voltage	24 V
Wattage per m ²	45 W
Luminous flux per m ²	2,600 lm
Degree of protection	IP20
Conformity	CE
Dimmable	yes
Available without rear panel	yes
Available with 3 mm opal cover	yes

Technical data for 1 m², illuminated from two sides

Available colour temperatures: 2,700 K | 3,000 K | 4,000 K | 5,000 K | 6,500 K

The Basic and Eco versions are also available for outdoor use.

W-W

... for warm/cool white light ...

- Power consumption: **approx. 25 W/m²**
(same as Basic version)
- Overall depth: **13 mm**
- Colour temperatures: **continuously variable between 2,700 and 6,500 K**
- Typical luminous flux: **1,400 lm**
- Indoor operation: parallel connection (12 V)
- Radio-controllable with receiver 2501M
- Operation with hand-held transmitter or wall-mount transmitter

RGB-W

... for colour changing effects ...

- Power consumption:
30 W/m² (RGB) | 40 W/m² (RGB-W)
- Overall depth: **11 mm (RGB) | 13 mm (RGB-W)**
- Light colours: **RGB | RGB-W**
- Indoor operation: parallel connection (12 V)
- Radio-controllable with receiver 1009FA
- Operation with hand-held transmitter or wall-mount transmitter

PLEASE NOTE: For a more accurate calculation of the luminous flux different EULUMDAT files are available on our website.
For further details and up-to-date data sheets of the Luminous Panel please visit www.hansen-led.com.

Luminous Panel – Details

Custom dimensions

The ***hansen*** Luminous Panel is made to customer specification only. The smallest possible size is 80 x 80 mm, the largest is 1,500 x 3,000 mm (Basic version). Within these dimensions any size can be supplied.

Maximum size

The **Luminous Panel** can be produced with a maximum height of 1,500 mm. This is the distance between the LED-illuminated edges. The light distribution over the surface area is very uniform. The maximum possible width is 3,000 mm for the Basic version and 2,000 mm for the Power version. Other dimensions are possible on request.

Small Luminous Panels

The smallest available size for the **Luminous Panel** is 80 x 80 mm. For such small panels illumination from one side, i.e. with one LED strip, is perfectly sufficient. The maximum height for panels illuminated from one side is approx. 750 mm.

Special shapes

Special shapes could be round or oval panels or even free shapes. Nearly every shape can be custom-made in the Basic version. Whether your desired shape is feasible can be checked in advance with our sales team.

Double-sided illumination (no rear panel)

Direction signs (e.g. on airports) are often illuminated on both sides, shining towards the front and rear. For these and similar applications, the **Luminous Panel** can be supplied without reflecting rear panel.

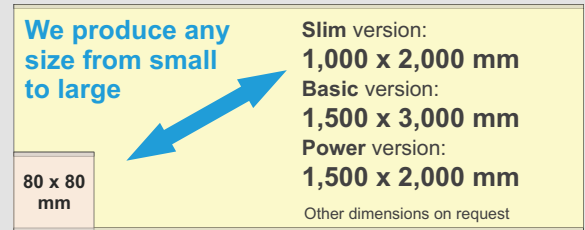
Opal/transparent cover

An opal front pane can be supplied when the **Luminous Panel** is to be used as a luminaire with a high-quality visible surface.

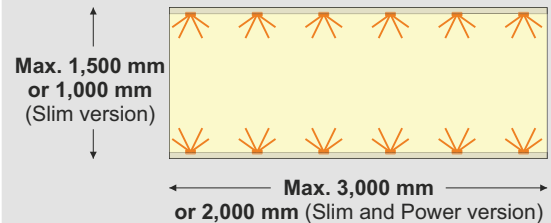
The 3 mm transparent pane can be used as a carrier for self-adhesive vinyl lettering and graphics.

Lead-throughs, openings, cut-outs

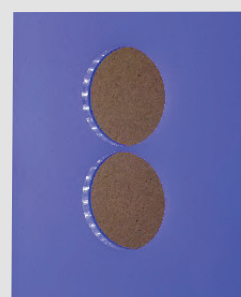
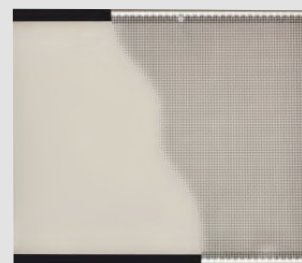
A variety of openings (e.g. for screwed connections), cut-outs (e.g. for switches) or lateral recesses (e.g. to avoid an existing strut or bracing) can be machined into the **Luminous Panel**.



Recommendation for uniform illumination:



Illumination from one side (max. height 750 mm):



Magnetic Frame

(for "Basic" power class panels)

The magnetic frame is the perfect fit for the ***hansen* Luminous Panel** in the Basic version.

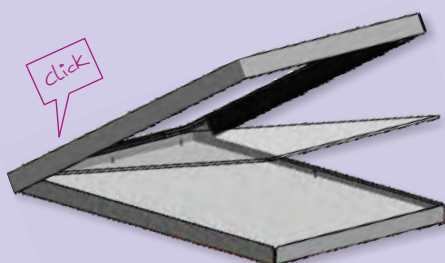
The aluminium frame and the acrylic glass pane protect the motif, which is attractively illuminated by the **Luminous Panel**.

The 12 V **Luminous Panel** can be illuminated by LED strips from one, two or four sides. The LED strips use Standard-PLUS LEDs spaced at 15 mm intervals. Other LED types and spacings are available on request.

Magnetic frame sizes from 200 x 200 mm to 1,100 x 2,400 mm allow a variety of individual designs. Customized solutions are possible as well.



The frame simply clicks together!



Frame width:
30 mm all round

Frame depth:
30 mm

Magnetic frame
(front view)

RGB-W Panel

("Basic" power class)

The ***hansen* Luminous Panels** cannot only be illuminated with white LEDs, they can also be supplied as **RGB** and **RGB-W** (RGB combined with a white channel) versions. **Warm/cool light mixing** can be implemented as well to create atmospheric light scenes.

The **radio remote control** offers the following functions:

- Manual adjustment of the light colours
- Mixing of the three primary colours red, green and blue
- Manual mixing of RGB and white light (RGB-W)
- Dimming of RGB and white light (RGB-W)
- 10 pre-set automatic programs
- Splitting of the LEDs into zones
- Storage function for customer-defined mixed colours

A particularly intense and uniform brightness and colour impression can be achieved by covering the Luminous Panel with an opal acrylic glass pane.



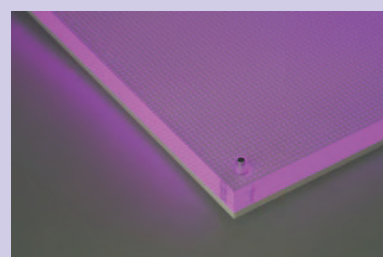
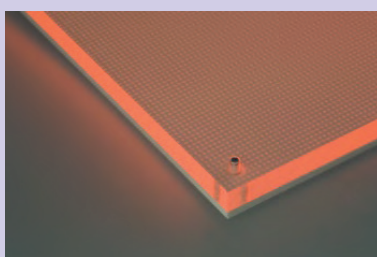
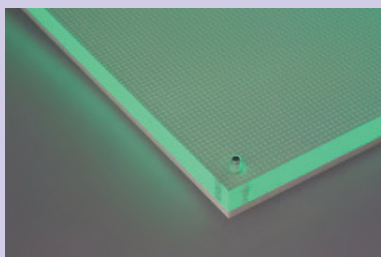
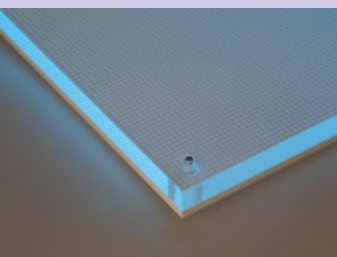
Wall-mount
transmitter



Hand-held
transmitter

Radio remote
control for
RGB | RGB-W

Sectional view of the RGB Panel





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