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!

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.

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

 Rao 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

Sectional view of the RGB Panel

Light-transmitting acrylic glass pane
Opal-white cover (optional)

Frame width:
30 mm all round

Frame depth:
30 mm

Magnetic frame (front view)

The frame simply clicks together!
Luminous Panel

The 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 luminaries for kitchens and bathrooms
- Illumination of decorative glass elements
- Backlighting of artificial stones, acrylic or textiles
- Illumination of flat light boxes
- Light for traffic signs, pictograms, direction signs

Colour temperature:
- Warm white (2,700 K)
- Cool white (6,500 K)
- Mixed white (3,000 K)

Energy consumption:
- Low energy consumption
- Low maintenance

Technical data for 1 m, illuminated from two sides

- Power consumption: 30 W (RGB) / 40 W (RGB-W)
- Overall height: 11 mm (RGB) / 13 mm (RGB-W)
- Light colours: RGB / RGB-W
- Indoor operation: parallel connection (12 V)
- Radios-controller with receiver (Remote 1000FA)
- Operation with hand-held transmitter or wall-mounted transmitter
- Dimmable

Custom dimensions

- 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 as 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.

AvailableVersions of the Luminous Panel

- Available light types: RGB / RGB-W
- Available with 3 mm opal cover
- Available without rear panel
- Available with 5 mm opal cover
- Terminal size for 1 m: 1,400 x 3,000 mm

Technical data for 1 m, illuminated from two sides

- Power consumption: approx. 25 W* (same as Basic version)
- Overall height: 13 mm
- Colour temperature: continuously variable between 2,700 and 6,500 K
- Typical luminous flux: 1,400 lm
- Indoor operation: parallel connection (12 V)
- Radio-controller with receiver (Remote 250/10)
- Operation with hand-held transmitter or wall-mounted transmitter

W-W

- for warm/cool white light...
- Power consumption: approx. 25 W* (same as Basic version)
- Overall height: 13 mm
- Colour temperature: continuously variable between 2,700 and 6,500 K
- Typical luminous flux: 1,400 lm
- Indoor operation: parallel connection (12 V)
- Radio-controller with receiver (Remote 250/10)
- Operation with hand-held transmitter or wall-mounted transmitter

RGB-W

- for colour changing effects...
- Power consumption: 30 W (RGB) / 40 W (RGB-W)
- Overall height: 11 mm (RGB) / 13 mm (RGB-W)
- Light colours: RGB / RGB-W
- Indoor operation: parallel connection (12 V)
- Operation with hand-held transmitter or wall-mounted transmitter

Available Versions of the Luminous Panel

- Slim
  - Max. height: 1,000 mm
  - Power consumption: 12.5 W
  - Brightness: 1,400 lm
  - Color temperature: 2,700 K / 3,000 K / 4,000 K / 5,000 K / 6,500 K
- Basic / Eco
  - Max. height: 1,000 mm
  - Power consumption: 25 W
  - Brightness: 2,000 lm
  - Color temperature: 2,700 K / 3,000 K / 4,000 K / 5,000 K / 6,500 K
- Power
  - Max. height: 1,000 mm
  - Power consumption: 45 W
  - Brightness: 4,500 lm

Custom dimensions

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

Maximumpurpose

- The Luminous Panel can be produced with a maximum height of 3,000 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 2,000 mm for the Basic version and 2,000 mm or 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 more illuminated on both sides, i.e. on the front and rear. For these and similar applications, the Luminous Panel can be supplied without reflecting rear panel.

Opaque/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.

Light-through, 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.

Luminous Panel – Details

- Conformity:
  - CE
- Degree of protection:
  - IP20
- Luminous flux per m²:
  - 1,400 lm / 700 lm
- Operating voltage:
  - 12 V / 24 V
- Weight per m²:
  - 2,000 mm: 13 mm / 11 mm
- Overall depth (thickness):
  - 8 mm in the Slim version, 11 mm in the Basic and Eco version, 13 mm in the Power version.
- Available versions of decorative glass elements
  - Round or oval shapes, rounded corners, cut-outs, etc.

Luminous Panel

Recommendation for uniform illumination

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

Reported produce dimensions

- 1,000 x 2,000 mm
- Basic version:
  - 1,000 x 2,000 mm
- Power version:
  - 1,500 x 2,000 mm

Sectional view of the Luminous Panel

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 as 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.
- Customizable: 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 meter. i.e. a Luminous Panel of 2m² would have the same energy costs as a small candide 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).
- Roving of warm as cool white light: Allows the transmission of daylight scenarios.
- Coloured light: The Luminous Panel can also be fitted with coloured or RGB-W LEDs allowing attractive colour change or impressive light scenes to be implemented.
- Low maintenance: The light source, i.e. the LEDs, do not have to be replaced during their entire service life of approx. 50,000 operating hours.

Technical data for 1 m, illuminated from two sides

- Power versions
  - 12 V / 24 V
- Basic and Eco versions are also available for outdoor use.
**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
- Glow-free wall luminaires 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

- **Slim**
  - Min. height: 1,500 mm
  - Max. height: 3,000 mm
  - Colour temperature: 2,700 K (RGB), 3,000 K (RGB-W)

- **Basic / Eco**
  - Min. height: 1,500 mm
  - Max. height: 3,000 mm
  - Colour temperature: 2,700 K (RGB), 3,000 K (RGB-W)

- **Power**
  - Min. height: 1,500 mm
  - Max. height: 3,000 mm
  - Colour temperature: 2,700 K (RGB), 3,000 K (RGB-W)

### **Available Versions of the Luminous Panel**

**Slim**

- **Power consumption**: approx. 25 W
- **Overall depth**: 13 mm
- **Typical luminous flux**: 1,400 lm
- **Radio-controllable with receiver 2501M**

**Basic / Eco**

- **Power consumption**: approx. 25 W
- **Overall depth**: 13 mm
- **Typical luminous flux**: 1,400 lm
- **Radio-controllable with receiver 2501M**

**Power**

- **Power consumption**: approx. 25 W
- **Overall depth**: 13 mm
- **Typical luminous flux**: 1,400 lm
- **Radio-controllable with receiver 2501M**

### **Technical data for 1 m**

<table>
<thead>
<tr>
<th>Slim</th>
<th>Basic / Eco</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td>1,500 mm</td>
<td>3,000 mm</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>600 mm</td>
<td>600 mm</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>8 mm</td>
<td>11 mm</td>
</tr>
<tr>
<td><strong>Luminous flux per m</strong></td>
<td>2,600 lm</td>
<td>2,600 lm</td>
</tr>
</tbody>
</table>

### **Operation with hand-held transmitter or wall-mount transmitter**

- **Radio-controllable with receiver 2501M**
- **Light colours**: RGB or RGB-W
- **Lighting effects**: Dimmable, tunable white light, continuously variable

### **Luminous Panel – Details**

**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.

### **Continuous dimming**: 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 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).

### **Wall-mount transmitter**

- **Radio-controllable with receiver 2501M**
- **Light colours**: RGB or RGB-W
- **Lighting effects**: Continuous dimming, tunable white light, continuously variable

- **Dimensions**: Slim, Basic, Eco, Power
- **Available without rear panel**: No rear panel
- **Available with 3 mm opal cover**: No rear panel

### **Technical data**

<table>
<thead>
<tr>
<th>Slim</th>
<th>Basic / Eco</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight per m</strong></td>
<td>15.5 kg</td>
<td>15.5 kg</td>
</tr>
<tr>
<td><strong>Max. width</strong></td>
<td>2,000 mm</td>
<td>2,000 mm</td>
</tr>
<tr>
<td><strong>Max. height</strong></td>
<td>1,500 mm</td>
<td>1,500 mm</td>
</tr>
<tr>
<td><strong>Max. brightness</strong></td>
<td>2,600 lm/m</td>
<td>2,600 lm/m</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP20</td>
<td>IP20</td>
</tr>
<tr>
<td><strong>Degree of protection / Recessed luminaires</strong></td>
<td>IP20</td>
<td>IP20</td>
</tr>
<tr>
<td><strong>Certified</strong></td>
<td>CE</td>
<td>CE</td>
</tr>
</tbody>
</table>

### **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 can 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.

### **Oval/transparent cover**

- An oval 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.

### **Recommendation for uniform illumination**

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

**Custom dimensions**

The **Hansen** 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 Basic version, 11 mm in the Basic and Eco version, and 13 mm in the Power version.

**Continuous light**

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 meter, 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).

**Riveting of warm as cool white light**

Allows the permutation of daylight effects.

**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.

---

**Available Versions of the Luminous Panel**

<table>
<thead>
<tr>
<th>Version</th>
<th>Max. height (Slim version)</th>
<th>Max. height (Power version)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic / Eco</td>
<td>1,000 mm (Slim version)</td>
<td>1,500 mm (Power version)</td>
</tr>
<tr>
<td>Power</td>
<td>1,500 mm (Slim version)</td>
<td>2,000 mm (Power version)</td>
</tr>
</tbody>
</table>

**For colour changing effects**

- **Power consumption:** approx. 25 W (same as Basic version)
- **Overall depth:** 13 mm
- **Light colour:** RGB | RGB-W
- **Operation:** hand-held transmitter or wall-mounted transmitter

**For warm/cool white light**

- **Power consumption:** approx. 25 W
- **Overall depth:** 13 mm
- **Light colour:** 30 W (RGB) | 40 W (RGB-W)

---

**Luminous Panel – Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Slim</th>
<th>Basic / Eco</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>12 V</td>
<td>24 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Wattage</td>
<td>25 W</td>
<td>30 W</td>
<td>45 W</td>
</tr>
<tr>
<td>Luminous flux</td>
<td>1,400 lm</td>
<td>1,500 lm</td>
<td>2,000 lm</td>
</tr>
<tr>
<td>Weight</td>
<td>9.5 kg</td>
<td>13 kg</td>
<td>15.5 kg</td>
</tr>
<tr>
<td>Overall depth</td>
<td>8 mm</td>
<td>11 mm</td>
<td>13 mm</td>
</tr>
<tr>
<td>Max. height</td>
<td>1,000 mm</td>
<td>1,500 mm</td>
<td>2,000 mm</td>
</tr>
<tr>
<td>Max. width</td>
<td>2,000 mm</td>
<td>2,000 mm</td>
<td>2,000 mm</td>
</tr>
</tbody>
</table>

**Rear panel**

- Available with 3 mm opal cover
- Dimmable
- Available with rear panel
- Available with 3 mm opal cover
- Dimmable by customer
- Conformity: CE
- Degree of protection: IP20
- Radiance: 1,400 lm

**Front panel**

- Available with or without rear panel
- Available with 3 mm opal cover
- Dimmable by customer
- Conformity: CE
- Degree of protection: IP20
- Radiance: 1,500 lm

---

**Recommendation for uniform illumination**

![Recommendation for uniform illumination](image)

**Small luminous panels**

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**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 from the front and rear. For these and similar applications, the Luminous Panel can be supplied without a reflecting rear panel.

**OReflector/transparency cover**

An opal front pane can be supplied when the Luminous Panel is to be used as a luminaire with a high-quality stable 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 g. (for screwed connections), cut-outs (e.g. for switches) or lateral recesses (e.g. to avoid an existing strut or tiling) can be machined into the Luminous Panel.
Magnetic Frame
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The magnetic frame is the perfect fit for the hansen Luminous Panel in the Basic version.

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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

Click

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Luminous Panels

www.hansen-led.com

Made in Germany

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.

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www.hansen-neon.com

Ultra thin & light
Slim Luminous Panel
www.hansen-neon.de

Low weight
Extremely thin design
Custom shapes and sizes

www.hansen-led.com
Magnetic Frame (for “Basic” power class panels)

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The frame simply clicks together!

Frame width: 30 mm all round

Click

Click here

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

Radio remote control for RGB | RGB-W

14 mm overall thickness with opal cover

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February 2016

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www.hansen-LED.com

Ultra thin & light
Slim Luminous Panel
... saving overall depth

Made in Germany