

# HoloPro™ – Living Transparency (for internal use only)

## Applications

HoloPro™ makes it possible to project onto glass during daylight. The transparency of the material is preserved. This is made possible by the patented **HoloPro™** Technology: Holographic optical elements are exposed onto a highly-transparent film using a laser. Embedding in glass comes next. Thanks to the angle-selective effect of the HOEs, only the image that is projected reaches the viewer.

**The result is a sharp image that is rich in contrast – even with daylight.**

## Technology

**HoloPro™** can be manufactured in the 4:3 (up to 100") and 16:9 format (up to 128"), as well as in customer-specific shapes and sizes. At the same time, **HoloPro™** films can also be embedded in larger glass panes e.g. in special glass (hardened glass, for example).

Here, one can make use of the **HoloPro™** projection foil.

## HoloPro™4 – The new 0.2 mm technology reveals every detail

When it comes to reproduction, the new technology with 16 million holographic optical elements per square meter offers the most brilliant holographic projection surface that has ever existed. At the same time, the new technology enables an entirely neutral color image.

By reducing the size of the holographic optical elements (HOE) to a diameter of 0.2 mm, an element size is achieved that is smaller than the pixel of a computer screen. To do so, the number of HOEs was increased. In fact, **HoloPro™4** has 22 times the number of HOEs of previous versions.

## Examples for recommended projection intensity for HoloPro

Image size	ANSI lumen*
50"	2000
67"	3000
100"	5000

[\*] These can only be approximate values. The brighter the surrounding light is, the stronger the light intensity of the projector must be.



## •HoloPro™ benefits at a glance

- Projection onto glass
- Can be used with daylight
- No dimming necessary
- Eye-catcher
- Brilliant colors
- Image rich in contrast
- Individual sizes
- Extremely long lifespan
- Extremely flat display
- Perfect integration into the design of a room

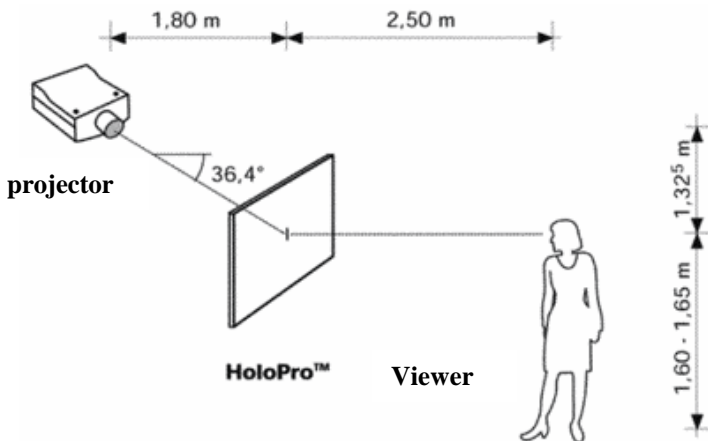
### Technical Data

Horizontal angle of visibility:	+/- 45°
Vertical angle of visibility:	+/- 15°
Peak gain:	3,8
Resolution:	nur vom Projektor abhängig
Available sizes:	beliebig bis 100" im 4:3 Format bzw. 128" im 16:9 Format

**HoloPro™ panes always have a small border (1.0 – 3.5 cm, depending on the size of the pane) without films, so that the holographic film is protected from having humidity penetrate into it. This sensitivity to moisture is also the reason we only offer the HoloPro™ Film in embedded form.**

### Projection geometry

Retaining the projection geometry is vital to ensuring the quality of the image; the illustration shows the structure of a 50" HoloPro™ pane:



### §Standard sizes

20" – 100" diagonal (4:3 Format)  
up to 128" diagonal (16:9 Format)

### §max. glass size

2,50 m x 6,00 m

### §Optional

- featuring touch display (max. 67")
- featuring gesture control
- special versions, special glass, foil
- Integration into glass walls, facades