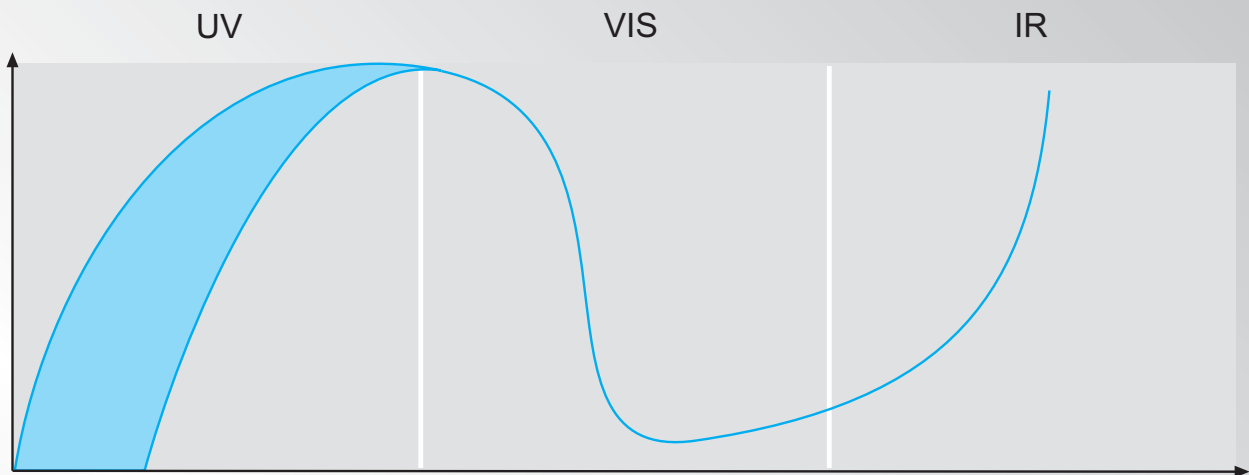


## Standard filters



### UV range

The short-wave cut-off location can only be influenced by the different types of glass. There is no protective coating which prevents solarization. The maximum transmittance in the UV range is smaller than 88%.

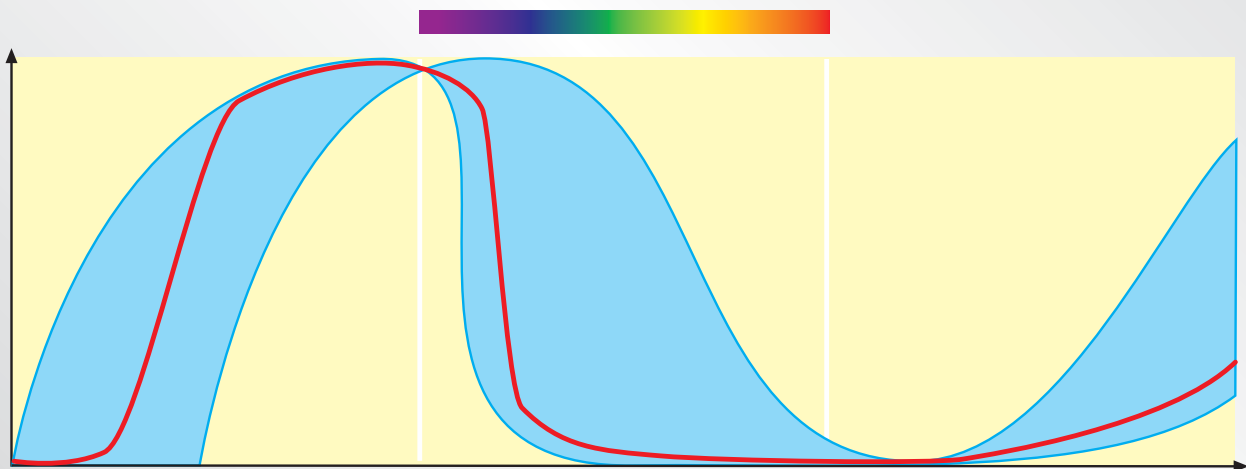
### Visible range

The coating only induces a mirroring effect. Technical modifications are barely or not offered.

### IR range

There is hardly any reduction in the IR range, which is why the heat emission is very high.

## Opcoms filters and possible modifications



### UV range

The cut-off location is adjustable by using different coatings. The steepness of the transmittance curve at the cut-off location can be influenced. The result is 25 % more UV within the same TE time. Intermediate blockings are possible to exclude selected UV ranges. A special coating in the range of 280 nm ensures that no solarization occurs. By using antireflection coatings transmittance in the UV range of 96 % can be reached.

### Visible range

Color rendering and image are variable. A maximum blocking of under 3 % is possible. The polarization is variable.

### IR blocking

Even low blockings in the IR range perceptibly reduce heat emission through the filter. A maximum blocking of up to 2500 nm is possible.

**opcoms**   
RESULTS SOLUTIONS

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# Coated filters for sun beds



**opcoms**   
RESULTS SOLUTIONS

## Application areas

- Medical engineering
- Automotive industry
- NDT
- Sun simulation systems
- Forensic medicine

Made  
in  
Germany





## Market overview of existing systems

### Blue filters

A traditional older filter technology with little innovation scope



### Standard coating filter

Higher efficiency in the UV range compared to blue filters  
UV cut-off location variable  
High-end image

### Opcoms filters

We start where others stop.

## Advantages of Opcoms: Filters you won't find anywhere else.

### Technology

- Filters for all ranges (UV, VIS, IR) developed to customer's specifications
- Large dimensions possible (e.g. 950x360)
- No solarization throughout life span
- Available thermally or chemically tempered
- Curved filter panes possible

### Marketing

- Customized branding on the filter pane
- Appearance of the filter pane adjustable in off-state (silver, gold) and in on-state (blue, green, red)
- Competitive edge in market

### Advantages for the manufacturer and the operator of the tanning salon

- Due to filter panes with very good blocking effects in the IR range expensive glass reflectors are dispensable
- Cooler acrylic surfaces conserve the material
- Comfortable temperatures of the tanning bed (extended tanning time possible)
- Less ventilation necessary (the device is quieter and more comfortable)
- Air conditionings can be reduced extensively
- Cooling of the salon can considerably be reduced
- The use of cooling components and their complex developments is minimized
- High energy saving due to the dispensability of cooling devices and ventilations



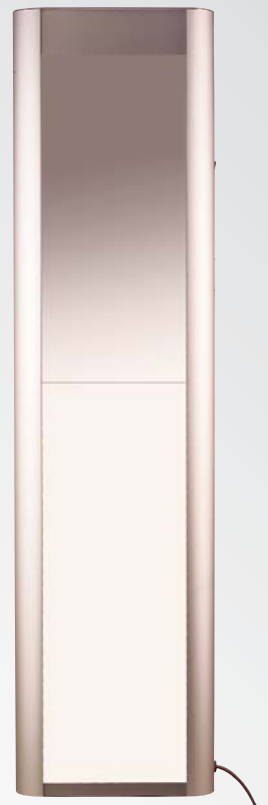
## Example of use

### Task:

- In the off-state the filter pane functions as a real mirror and must not be transparent.
- In the on-state it has to have a high UV performance.
- The surface has to be immaculate without any distortion or striation.
- Customized branding (Noble NH Hotel) in XXL filter pane

### Coating:

XXL filter pane  
 UV transmittance over 90%  
 VIS blocking less than 1%  
 Low heat emission in the IR range



lux-us-pur reflects and tans.  
 In private.  
 Whether it is at home, at your friends or in  
 a hotel: everything stays clean - without  
 any residue of sweat.

Very quick - short periods.  
 Time saving - a look in the mirror a day is  
 enough.  
 Space saving - like an upright mirror.

Trendy and trend-setting:  
 sophisticated aluminium design or  
 elegant black.

More Infos: [www.lux-us-pur.de](http://www.lux-us-pur.de)