



## LED Backlight

**Keytouch designs and manufactures front panels, membrane switches and electro mechanical operating panels with embedded LED backlight.**

Advantages of LED backlight:

- Very long operation life
- Multi-color available
- No EMC-noise (when operated from DC)
- Thickness < 1 mm
- Light weight
- Flexible
- Dimming available
- Luminary buttons, text, frames, logos etc.

### Build-up

LEDs are mounted onto a polyester foil with conductive silver tracks. Resistors/diodes/transistors can be mounted onto foil too, so only a single DC source is needed to power the backlight. The backlight can be designed without requirement of controller card, only power or it can be designed to fit the Outputs on your controller/PCB. Keytouch can simulate the placement of each LED, to distribute the light as evenly as possible.

### Controller card

Keytouch can develop a controller card with integrated LED control and dimming, which can interface your system.

### Technical data

Power consumption	
mA/LED	1-20
Dimming	
(Using PWM)	0-100%

Light-simulation to achieve even brightness in button-frame:

