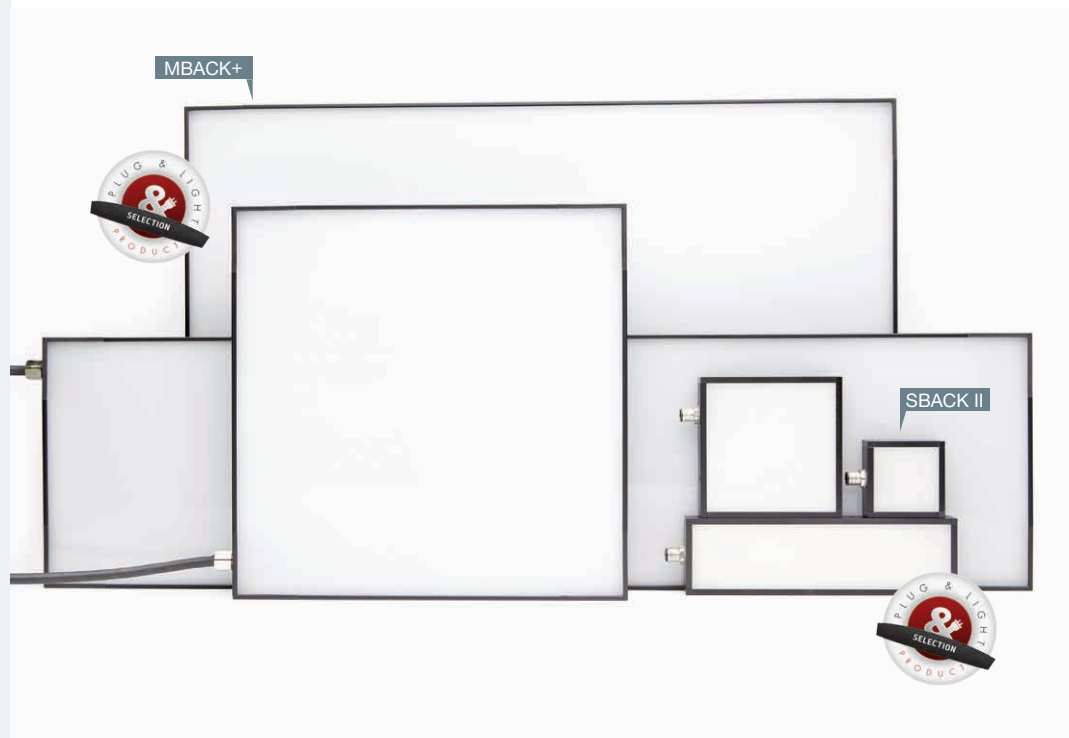


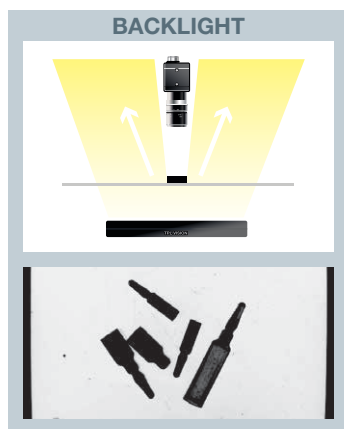
## **BACKLIGHT RANGE**

## MAIN DIFFERENCES:

- the **Medium MBACK+** is a backlight, powerful and very diffuse, dedicated to machine vision applications. Thanks to the high powerful LED inside, it creates intense luminous flux, that helps cameras to see the work-pieces shapes thanks to the shadow puppet effect. Equipped with thin edges, the new Medium MBACK+ uniformly illuminates from the whole useful surface.
- the **SMALL SBACK II** is a backlight specially designed for the lighting of confined spaces. Thanks to its thin borders, it can be easily set up in mechanical environments, wherever the size is a real constraint.



## MAIN APPLICATION



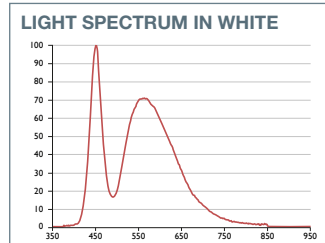
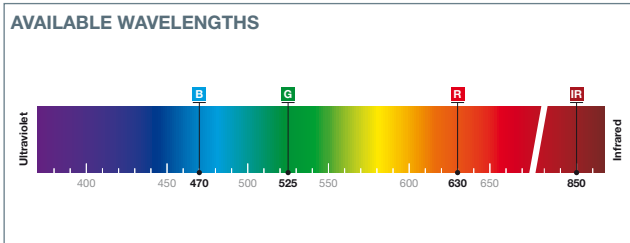
## Technical information

**Compare** TPL Vision's backlights thanks to the technical information gathered in the tables below.

MODEL	COLOUR	THICKNESS (mm)	MIN. USEFUL DIMENSIONS (mm)	MAX. USEFUL DIMENSIONS (mm)	POWER SUPPLY	IP PROTECTION
<b>MBACK+</b>						
MBACK+	<b>W R V B IR</b>	45	200x200	1900x900	24V	40
<b>SBACK II</b>						
SBACK II	<b>W R V B IR</b>	20	51x51	204x204	24V	40

TPL Vision's colour references : **W** = WHITE, **R** = RED (630), **G** = GREEN (525), **B** = BLUE (470), **IR** = INFRA-RED (850: MBACK+ ; 880: SBACK II)

## Range specificities



### DIMENSIONS TIPS:

The MBACK+ by TPL Vision exists in various dimensions, from 200x200 mm up to 1900x900 mm. If you need other sizes, we can offer customizable solutions. Do not hesitate to contact TPL Vision for more information.

## MBACK+ : 3 versions available

The **STANDARD** version is very **easy to use**: you don't have to adjust anything, only to plug the light. The STANDARD version works in continuous and strobe mode, with **rising and falling times especially short**: 25  $\mu$ s and 15  $\mu$ s. The STANDARD version generates a high powerful light, that fits most machine vision applications. Moreover, some **LED**, close to the connector, show if the light is powered, and if the strobe mode is on, for a **better use of the product**.

### OVERDRIVE VERSION

#### CURRENT CONTROL INSIDE OVERDRIVE FUNCTION

The **OVERDRIVE** version is just as **easy to set and to use** as the STANDARD version. Equipped with specific electronics, it gives the opportunity for users **to overdrive on their own** the lighting power. The OVERDRIVE version is dedicated to specialists who want to **customize the luminous flux** very precisely, so as to get the most reliable results.

### EXPERT VERSION

#### OVERDRIVE WITH YOUR CONTROLLER

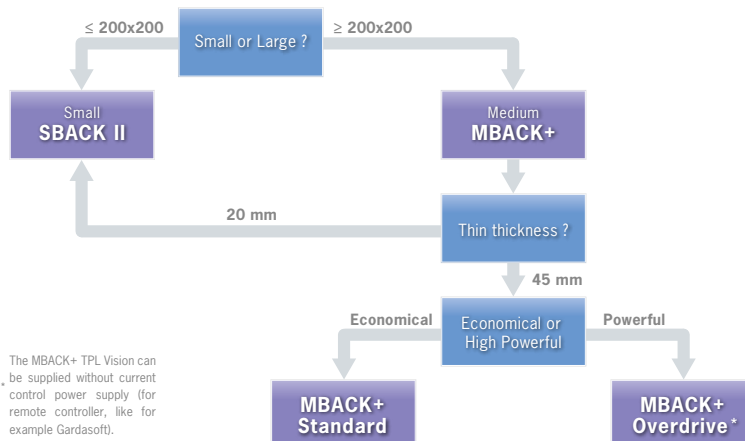
In the **EXPERT** version, the products **do not have any current controller**, which is very useful for users who want **to work with their own controllers**. In strobe mode, they can use the EXPERT lights in overdrive, so as to get **a more intense light power**. The EXPERT version definitely targets **machine vision specialists**, able to manage a whole vision system.

### CONNECTOR INFO:

With the Medium MBACK+, you can choose the location of the connector, in order to cope with setting constraints.



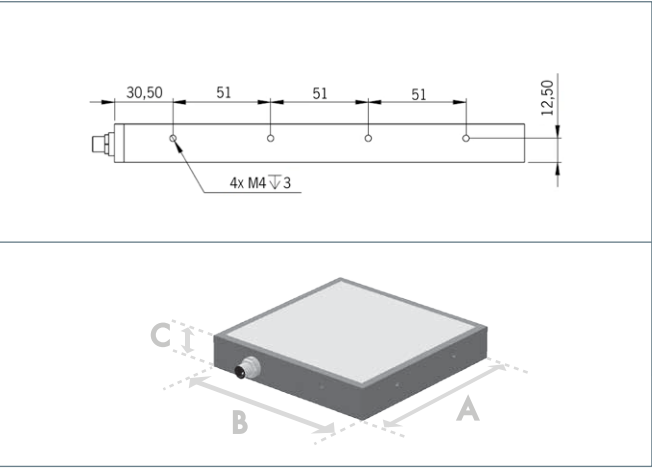
### HOW TO CHOOSE A BACKLIGHT ?



# Dimensions

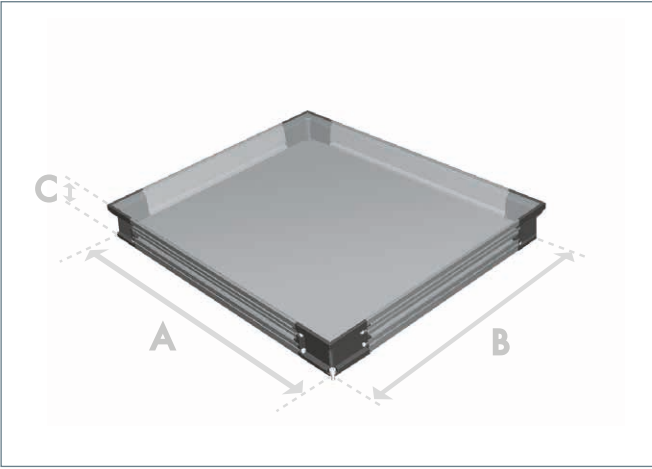
Find out detailed tables below for TPL Vision's backlights.

## SBACK II



SBACK II	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
	A	B	C
SBACKII-050502	61	61	20
SBACKII-100502	112	61	20
SBACKII-150502	163	61	20
SBACKII-200502	214	61	20
SBACKII-101002	112	112	20
SBACKII-151002	163	112	20
SBACKII-201002	214	112	20
SBACKII-151502	163	163	20
SBACKII-201502	214	163	20
SBACKII-202002	214	214	20

## MBACK+



MBACK+	LENGTH (mm)		WIDTH (mm)		HEIGHT (mm)
	A		B		C
	MIN: 200	MAX: 1900	MIN: 200	MAX: 900	45

