Vision Light Tech
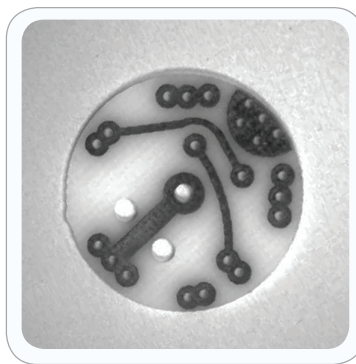### creating optical solutions

BACKLIGHT
fluoreSHEET™

Backlights provide sharp contrast to outline a shape, edges or an opening. But applications with space constraints may dictate backlight utilization. MidOpt introduces the backlight FluoreSheet™ (BF590). When the FluoreSheet™ is illuminated from the front with a blue LED light, it emits an orange fluorescence. A backlight effect can be created by using a MidOpt orange Bandpass Filter (BP590) to capture the orange emission and block the blue LED excitation, giving the appearance of a bright white diffuse background in a monochrome image.
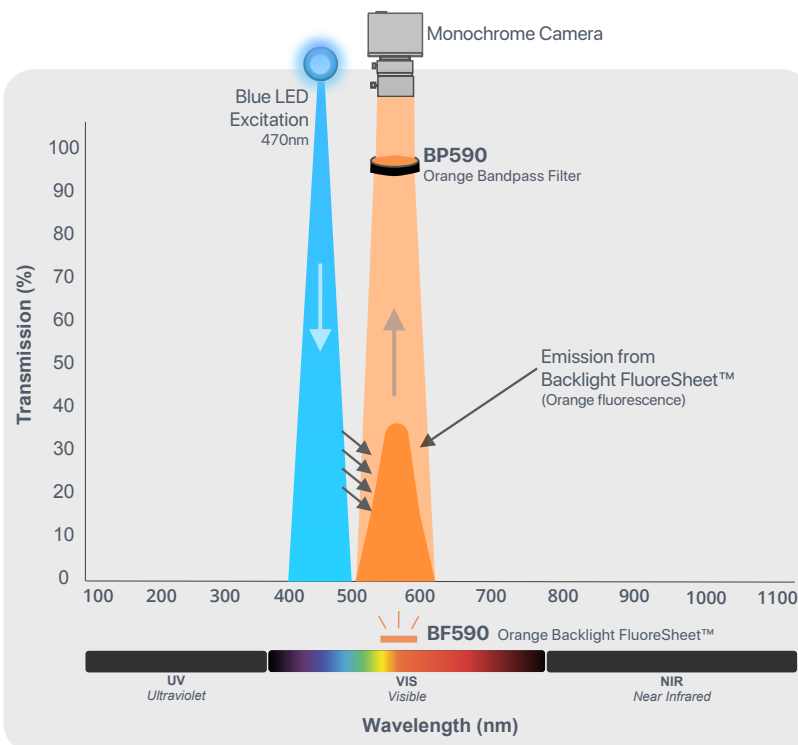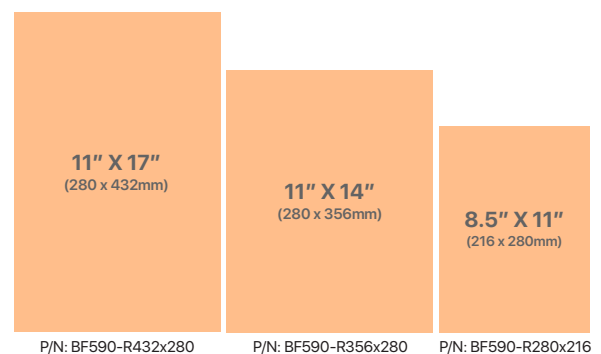
White Background
Blue LED
No Filter

White Background
Blue LED
Orange Bandpass Filter (BP590)

Backlight FluoreSheet™ (BF590)
Blue LED
Orange Bandpass Filter (BP590)

Monochrome Camera

Blue LED
Excitation
470nm

BP590
Orange Bandpass Filter

Emission from
Backlight FluoreSheet™
(Orange fluorescence)

Transmission (%)

100
90
80
70
60
50
40
30
20
10
0

100 200 300 400 500 600 700 800 900 1000 1100

BF590 Orange Backlight FluoreSheet™

UV *Ultraviolet*   **VIS** *Visible*   **NIR** *Near Infrared*

Wavelength (nm)

Available Sizes:

11" X 17"
(280 x 432mm)

11" X 14"
(280 x 356mm)

8.5" X 11"
(216 x 280mm)

P/N: BF590-R432x280   P/N: BF590-R356x280   P/N: BF590-R280x216

• Adhesive backing
• Repels water
• Tear-resistant
• Flexible