

# Wide-Angle IR LEDs

Lextar



Beck Elektronik extends its product portfolio with the new wide-angle infrared LEDs of the PR35V- series from Lextar.

They offer an asymmetric viewing angle of  $130^{\circ} \times 80^{\circ}$  by using a secondary optic which helps to achieve better illumination making it the perfect solution for surveillance and vision systems.

Besides the bright and uniform illumination another benefit is that just a very small amount of optical power is lost at the areas outside the field of view of the camera as most of it is covered by the illuminated area of the LED. Compared to that conventional IR LEDs have a circular viewing angle that leads to weak illumination with low energy efficiency.

To prevent that the LEDs are designed to perfectly match the 16:9 screen of wide-angle cameras and tar-

get to eliminate dark corners and compensate for camera shading effects.

The standardized 3535 package of the Lextar PR35V-series is available with 850nm and reaches optical powers of up to 2W. The lead frame package ensures low thermal resistances and efficient heat dissipation to make it reliable under challenging driving conditions.

## FEATURES

- Industry standard 3535 SMD packages
- Wavelength: 850 nm
- Asymmetric viewing angle:  $130^{\circ} \times 80^{\circ}$
- Designed to eliminate dark corners
- Low thermal resistance



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# TECHNICAL SPECIFICATIONS

	PR35V30	PR35V21	PR35V11
WAVELENGTH (nm)	850	850	850
VIEWING ANGLE (°)	130x80	130x80	130x80
DC FORWARD CURRENT max. (A)	1	1.5	1.5
OUTPUT POWER max. (W)	0.64	1	1.8
FORWARD VOLTAGE @ 1A (V)	1.75	1.8	3.2
DIMENSIONS (mm)	3.55 x 3.55 x 1.87	3.55 x 3.55 x 1.87	3.55 x 3.55 x 1.87

## APPLICATIONS



**MACHINE VISION**



**SURVEILLANCE**



**ACCESS CONTROL**



**NIGHT VISION**

