

# Lextar

Ennostar Group

PR35V Series with  $130^{\circ} \times 80^{\circ}$   
High Power IR LED for Vision Systems

— Smart Innovation, Amazing Life —

# Introduction of High Power IR LED

Lextar Electronics introduces a high power IR LED family with asymmetric viewing angle specially designed for vision systems.

- Asymmetric radiation pattern
- Low thermal resistance
- 850nm



PR35V Series

## Benefit

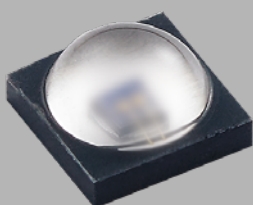
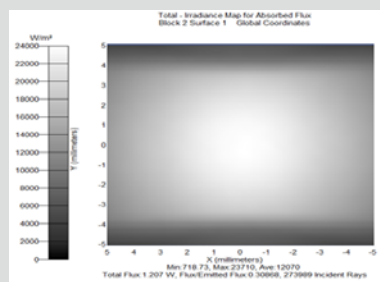
Asymmetric radiation pattern for better illumination at the corners of the camera field of view.

Simulation

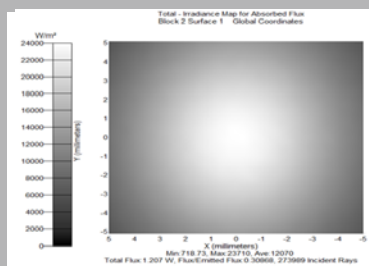
Real Camera Image



New IR LED with asymmetric pattern



Conventional IR LED



## Applications



Machine vision



Surveillance



Access control



Night vision

## Product Specification

	PR35V30	PR35V21	PR35V11
Dimensions (mm)	3.55x3.55x1.87	3.55x3.55x1.87	3.55x3.55x1.87
Viewing angle (°)	130x80	130x80	130x80
Max. DC forward current (A)	1	1.5	1.5
Output power @ max. DC forward current (W)	0.64	1	1.8
Forward voltage @ 1A (V)	1.75	1.8	3.2
Wavelength (nm)	850	850	850

# Patents

Region	Patent Number	Title
US	11,289,625B2	LIGHT-EMITTING DIODE OF IMPROVED LIGHT EXTRACTION RATE
	11,121,288B2	PACKAGE STRUCTURE OF LIGHT-EMITTING ELEMENT
Taiwan	I788907B	檢測裝置
	I744139B	二極體封裝結構及其製造方法
	I598429	波長轉換材料及其應用
	I584498	發光二極體磊晶結構
	I584496	半導體發光結構
	I565104	發光二極體裝置
China	111446338B	发光二极管
	111106222B	发光模块及其封装结构
Japan	6478964	波長変換材料およびその用途

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For the latest version, please download from Lextar website :



**Lextar.com**

SALES@Lextar.com

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