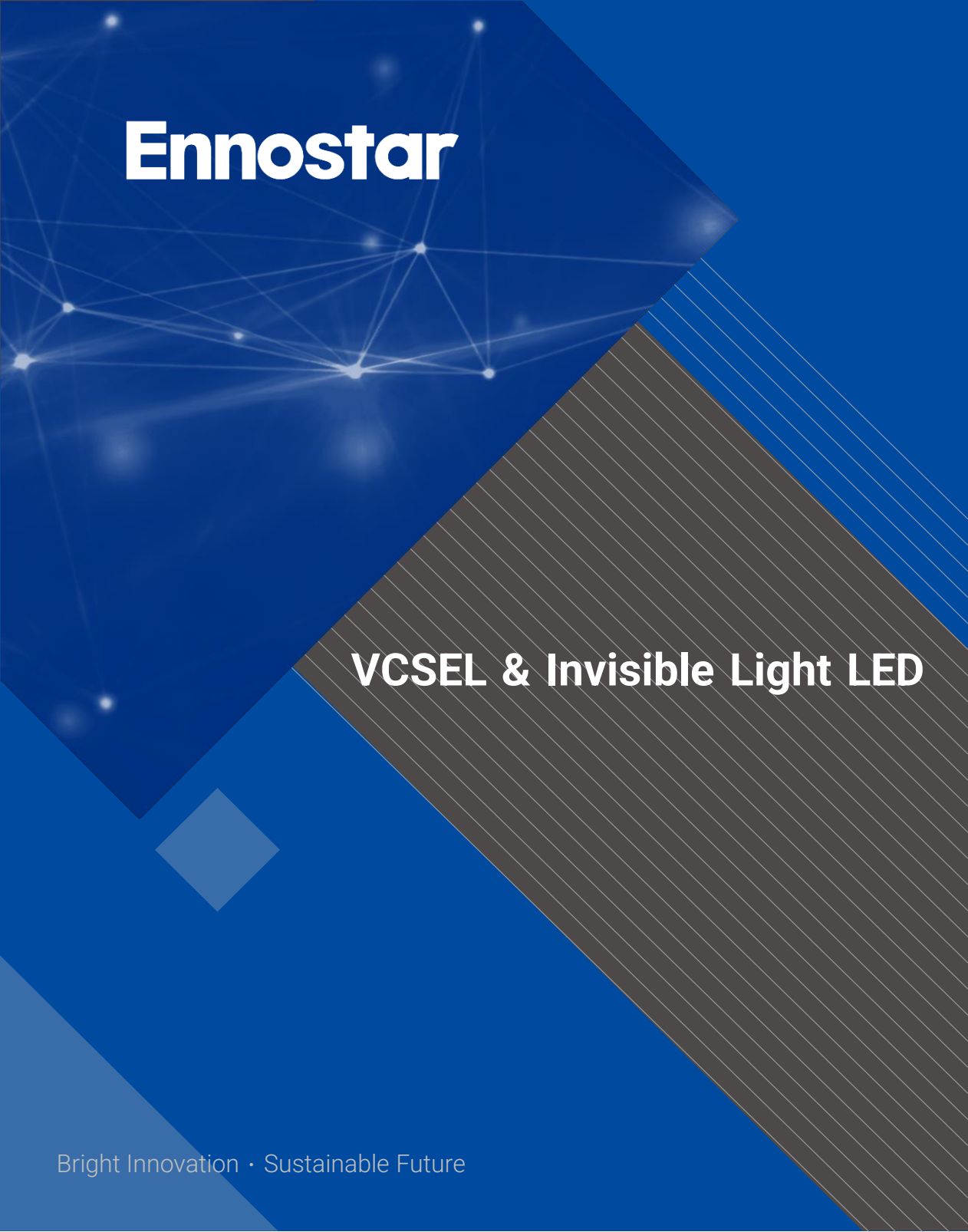


The background is a deep blue with a network of white lines and dots in the upper left. A diagonal band of fine white lines runs from the middle right towards the bottom. A small light blue diamond is in the lower left.

Ennostar

VCSEL & Invisible Light LED

Bright Innovation · Sustainable Future

IR LED and VCSEL Illumination



Surveillance



Biometric



Gesture Sensing



Robotics



Industry

Infrared 3535 High Power VCSEL Series

- Vertical-cavity surface-emitting laser technology
- Narrow spectral width (<1nm typ.)
- 3D depth assistance

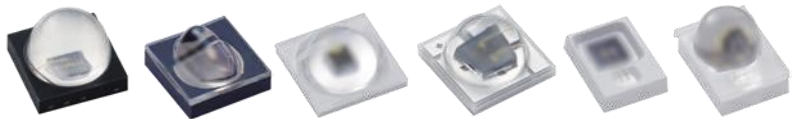


Model Name	Dimension LxWxH (mm)	λ_p (nm)	Radiant Power (mW)	View Angle (°)
PV88M Series	3.5x3.5x1.77	850 / 940	500-4000	60x45 72x55 90x60 100x80



Infrared LED High Power Emitter Series

- High intensity and efficiency infrared LED
- Durable reliability
- Top view assembly device
- Various emitting angles
- Low thermal resistance



Model Name	Dimension LxWxH (mm)	Vf (V)	λ_p (nm)	Radiant Intensity (mW)	View Angle (°)
PR35FXX Series	3.55×3.55×2.05-3.28	1.8V@1A	850 / 940	650mW@1A	120 / 90 / 60 / 45
PR35FXX Series	3.55×3.55×1.87-2.50	1.7V@1A	850 / 940	650mW@1A	130×80 / 100×90
PR37FXX Series	3.70×3.70×1.49-2.40	1.8V@1A	850 / 940	700mW@1A	150 / 80
PR88FXX Series	3.50×3.50×2.10-3.03	1.7V@1A	850 / 940	770mW@1A	120 / 90 / 60
PR88FXX Series	3.50×3.50×2.10-3.03	3.2V@1A	850 / 940	1340mW@1A	120 / 90 / 60
PR92FXX Series	2.75×2.00×0.60-1.80	3.2V@1A	850 / 940	1200mW	120 / 80



Infrared LED 3535 High Power Module Series

- High intensity and efficiency infrared LED
- Durable reliability
- Low thermal resistance (Max. 25 K/W)
- Peak wavelength 750 / 810 / 850 / 940nm
- Various emitting angles
- Double stack emitter



Model Name	Dimension LxWxH (mm)	Vf (V)	λ_p (nm)	Radiant Intensity (mW)	View Angle (°)
PR88M0X Series	3.5x3.5x2.52	2.6	750	1300mW/sr @ 1A	25
		3.3	810 / 850 / 940	2700mW/sr @ 1A	
PR88M3X Series	3.5x3.5x1.7	3.3	810 / 850 / 940	1000mW/sr @ 1A	36
PR88M8X Series	3.5x3.5x1.5	3.3	850 / 940	500mW/sr @ 1A	80



PLCC Multi-Wavelength Emitter Series

- IR/R/G/B 4-in-1 package
- Top view assembly device



Model Name	Dimension LxWxH (mm)	View Angle (°)	λ_p (nm)	Luminous Intensity (mcd)(mW/sr) @20mA	Forward Voltage (V)
PR80E01	3.5×2.8×1.3	120	IR: 940	4.5	1.4
			R: 630	450	2.0
			G: 530	1700	3.2
			B: 470	300	3.2
PR80E02	3.5×2.8×1.3	120	IR: 850	3.2	1.6
			R: 630	525	2.0
			G: 530	2000	3.2
			B: 470	400	3.2



Wearable Sensor



SPO₂ Tracker



Heart Rate Tracker

PLCC Multi-Wavelength Emitter Series

- High intensity R+IR emitter
- Minimized size 2.1x2.1mm
- 3 wavelength packages available



Model Name	Dimension LxWxH (mm)	Peak Wavelength (nm)	Radiant Power (mW)	Forward Current (mA)	View Angle (°)
PI21E01 V0	2.1x2.1x1.0	660+940	4.0 / 3.0	20 (each)	120

ROHS

EMC Multi-Wavelength Emitter Series

- Thinnest T0.6mm
- Full function emitter for heart rate / blood pressure / oxi-meter measurement



Model Name	Dimension LxWxH (mm)	Peak Wavelength (nm)	Radiant Power (mW)	Forward Current (mA)	View Angle (°)
PI24H01 V0	2.1x4.8x0.6	545+660+680+940	3.5 / 3.0 / 3.0 / 2.5	20 (each)	130
PI24H01 V1	2.1x4.8x0.6	545+680	3.5 / 3.0	20 (each)	130

ROHS

HRM Module Series

- Low SNR
- Easy using for HRM function
- Low power consumption (0.05W)



Model Name	Dimension LxWxH (mm)	Peak Wavelength (nm)	Radiant Power (mW)	Forward Current (mA)	View Angle (°)
PM53G01 V0	4.35x3.15x0.8	525	1.0	10 (each)	90x135

ROHS

UV LED & Module



Ink Curing



Bug Zapper



Disinfection

UVA 3535 High Power Emitter Series

- High thermal conductivity ceramic body UV package
- Silicone molding type
- High power output
- Low thermal resistance



Model Name	Peak Wavelength (nm)	Dimension LxWxH (mm)	View Angle (°)	Forward Current (mA)	Radiant Flux (mW)	Forward Voltage (V@350mA)
PU88S01	365	3.45x3.45x2.10	120	500	typ. 750	3.4-4.4
	385 / 395 / 405	3.45x3.45x2.10	120	500	typ. 880-950	3.4-4.4
PU88S04	395	3.45x3.45x2.10	120	350	typ. 570	3.0-3.5
PU88S11	365	3.45x3.45x2.10	120	350	typ. 480	3.4-3.8

RoHS

UVA 2016 Small Power Emitter Series

- High thermal conductivity ceramic body UV package
- Low power consumption
- Robust UV light source
- Low thermal resistance



Model Name	Peak Wavelength (nm)	Dimension LxWxH (mm)	View Angle (°)	Forward Current (mA)	Radiant Flux (mW)	Forward Voltage (V@350mA)
PU21S31	365	2.0x1.6x0.7	135	20	typ. 17-21	3.0-4.0

RoHS

UVC Emitter Series

- High thermal conductivity ceramic body package
- Low thermal resistance
- Low operating cost

Model Name	Peak Wavelength (nm)	Dimension LxWxH (mm)	View Angle (°)	Forward Current (mA)	Radiant Flux (mW)	Forward Voltage (V@350mA)
PU89S Series	278	3.5x3.5x1.3	120	20	2	5-7.5
				150	10	

RoHS

UVA High Power Module Series

- Suitable for various UV applications
- Multi-wavelength
- Low power consumption



Product Type	Peak Wavelength (nm)	View Angle (°)	Forward Current (mA)	Irradiance (W/cm ²)	Forward Voltage (V@350mA)
High Power UV LED Array MCPCB	365 / 385 / 395 / 405	60 / 90 / 120	typ. 500	18.7-22.5	3.4-4.4

RoHS

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	1788907B	檢測裝置
	1744139B	二極體封裝結構及其製造方法
	1598429	波長轉換材料及其應用
	1584498	發光二極體磊晶結構
	1584496	半導體發光結構
	1565104	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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