

VISION DATUM LIGHTS

The Leader and Innovator in Machine Vision Lighting



ABOUT US

Vision Datum as leading manufacturer of machine vision products in China, have almost 20 years in this industry, and the major products cover machine vision lighting / illumination, camera, lens, machine vision algorithms and storage software.

With abundant experience in industry application and scientific research, Vision Datum Machine Vision Led Illumination offer a wide range of selections, and we provide OEM / ODM customization for various lighting solutions, including but not limited to Line Scan Lights, Telecentric Lights, Ultraviolet and Infrared Lights, Waterproof and Anti-corrosion Lighs, and Multi-spectral Lights.

Vision Datum products have been exported to almost 100 countries and regions, and in thousands of projects have received countless affirmations and reputations. Vision Datum machine vision products are well-known as innovative, flexible, stable and easy to use, enabling reliable inspection in many applications.









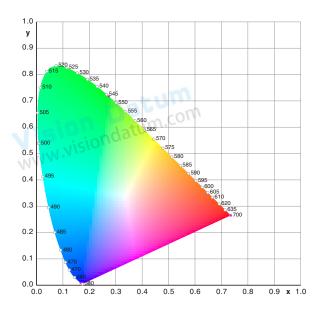


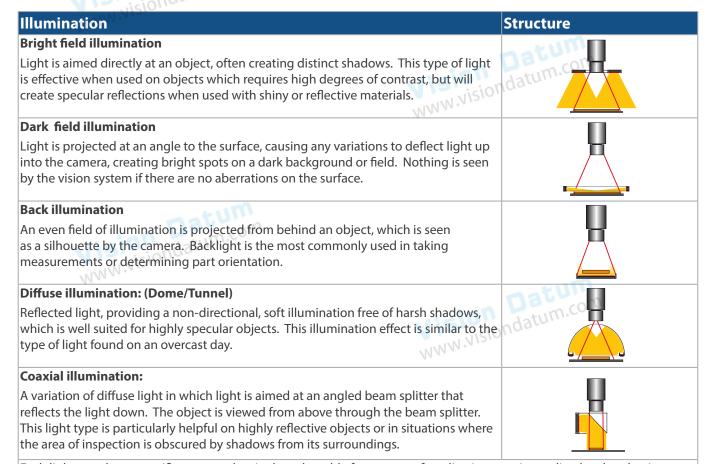
USEFUL INFORMATION

Color Wavelength

The durability of LEDs is on the upper area of the durability spectrum. The duration in which LED remains fully functional depends on the operating temperature and ambient temperature.

Vision Datum gives an extended guarantee on its LEDs. All housings, except some bar lights, are manufactured by high quality alumium. Besides, the light intensity of all the lights can be regulated as well as flashed.





Bar Illumination HL Series

Features

- Standard mold and stitching installation ensured structure stability.
- Special optical lenses equipped to concentrate the ray.
- In addition to available models, the bar lights with various sizes or colours can be customized easily according to request.

Applications

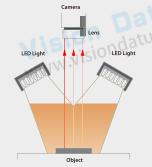
- IC marking inspection, inspection of components on glass substrates
- Dirt inspection on cap sides and inside surfaces
- Wafer appearance inspection
- Solder inspection and connector pitch inspection
- Inspection, etc. of BGA, QFP, etc.



Detail Drawing



Illumination Structure



Examples of Bar Light Images

Lights: HL7426W

Inspect PCB printing characters.

Can check the object whose surface is smooth and glossy. Meet the needs overcome the reflective surface and highlight the surface details. The bar lights to illuminate from side can solve the light reflecting problem.



Lights: HL-8015B

Inspect bar code on cigarette box.

The surface is very smooth and reflect light. Needs to overcome the reflective surface and highlight the details. Choose this bar light to illuminate object from side can solve can Light-reflecting.



Common Specifications

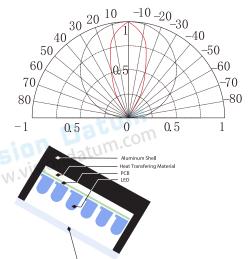
Input voltage	24 VDC
Connector	SMR-03V-B
Wavelength range	Red: 620-630nm; Blue: 465-475nm; Green: 515-530nm; White: 6000-10000K(ColorTemperature)
Cable length	500 mm
Optional Accessory	Diffusion plate, Polarizing plate. DC extension cable: 1m/2m/3m
Operating environment (indoor)	Temperature: 0~40°C Humidity:20% to 85% RH (with no condensation)
Life time	White:30,000hrs, Red: 60,000hrs (Depends on the operating environment, not a gurantee)
Case material	Aluminum alloy, Resin

Optional Accessory: Diffusion Plate

To be mounted in front of the LED lighting. Used to soften the lighting output, so as to reduce the glares on specular surface.



Illuminated Angle Diagram

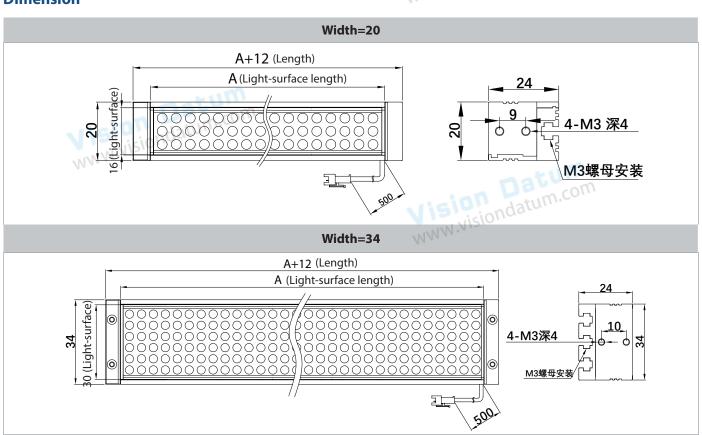


Explanation of Model Code HL Series

VT-LT2-HL	119	16	(W/B/G/R)
Series	Emitting Length	Emitting Width	Color

	Optica	ıl spec.	Electrical specifications (GREEN / NIR / UV Accept custom)				Dimensions			
Model No.	Light Area		Number of	Supply		Power cons.	Length	Width	Height	
	Length (mm)	Width (mm)	lamp beads	Voltage (v)	(w)	(w)	(mm)	(mm)	(mm)	
VT-LT2-HL4016	40	16	3	24	1.3	1.7	52	20	24	
VT-LT2-HL8016	80	16	3	24	2.7	6.9	92	20	24	
VT-LT2-HL11916	120	m.16 M	3	24	3.5	4.5	132	20	24	
VT-LT2-HL15816	10 160 all	16	3	24	5.5	7.0	172	20	24	
VT-LT2-HL15816 VT-LT2-HL19716	197	16	3	24	6.0	7.5	209	20	24	
VT-LT2-HL7430	74	30	6	24	6.6	12.1	209 atu86	34	24	
VT-LT2-HL8630	86	30	6	24	2.6	1/54.4	98	34	24	
VT-LT2-HL9830	98	30	6	24	3.0	5.0	110	34	24	
VT-LT2-HL14630	146	30	6	24	3.5	5.8	158	34	24	
VT-LT3-HL15030	150	30	6	24	5.2	8.7	162	34	24	
VT-LT2-HL17030	170	30	6	24	6.1	10.2	182	34	24	
VT-LT2-HL18030	180	30	6	24	6.8	11.5	192	34	24	
VT-LT2-HL19430	194	30	6	24	7.0	12.1	206	34	24	
VT-LT2-HL21830	218	30	6	24	7.8	13.7	230	34	24	
VT-LT2-HL26630	266	30	6	24	9.6	16.7	278	34	24	
VT-LT2-HL29030	290	1M-30	6	24	10.5	18.2	302	34	24	
VT-LT2-HL38630	386	30	6	24	14.6	25.3	398	34	24	
VT-LT2-HL38630 VT-LT2-HL43430	434	30	6	24	16.4	28.5	446	34	24	
VT-LT2-HL57830	578	30	6	24	21.9	38.0	590	34	24	
Dimension	434 30 6 24 16.4 28.5 446 34 24 578 30 6 24 21.9 38.0 590 34 24									

Dimension



Overview **Light Controller Collection**



Model ^{N.W.}	Drive	In most Valta na	Output	Danner	Output Company	channal of	Output David	Adapt to
Model	Mode	Input Voltage	Voltage	Power	Output Current	Channel	Output Port	line light
Digital Controller				V	isionda	Corr		
VT-LT4-0506PWDC-2	Constant Current	88V-264V	5V	Total:6W/Single :3W Expandable: Total:12W/Single:6W	/	2	SMP-03V	
VT-LT4-2420PWDC-2	Constant Voltage	88V-264V	24V	Total:20W Single:20W	/	2	SMP-03V	
VT-LT4-2460PWDC-4	Constant Voltage	88V-264V	24V	Total:60W Single:25W	/	4	SMP-03V	
VT-LT4-24150PWDC-4	Constant Voltage	88V-264V	24V	Total:150W Single:70W	/	4	SMP-03V	
VT-LT3-24240PWDC-2	Constant Current	100V-120V(Ver.A) 200V-240V(Ver.B)	24V	240W	Total:10A Single:10A	2	19M-5	√
VT-LT3-24500PWDC-2	Constant Voltage	100V-240V	24V	480W	Total:20A Single:light 9A, fan 1A	2	19M-2E	
VT-LT4-48300PWDC-1	Constant Current	90V-264V	48V	300W	0-6A	1	+	
Stroboscopic Controller	(With Brig	htening Module)					0	
VT-LT3-PLU24120-4	Constant Voltage	100V-240V	48V	120W	10A(Instantaneous Value)	4	SMP-03V-BC	
VT-LT3-PLU24200-2	Constant Voltage	100V-240V	48V	200W	50A(Instantaneous Value)	2	12M-2	
VT-LT3-PLU24200-4	Constant Voltage	100V-240V	48V	200W	25A(Instantaneous Value)	4	SMP-03V-BC	
Line Source Stroboscopi	c Controlle	r (With Brightening	g Module	2)				
VT-LT3-PLU481000LI-6	Constant Voltage	100V-240V	48V	1000W	Total:25A Single:25A	6	16M-2	√
Line Source Controller								
VT-LT3-24300PWLI-1	Constant Voltage	100V-240V	24V	≤ 300W	12.5A	1	AM20K4Z	√
VT-LT3-48600PWLI-2	Constant Current	100V-120V(Ver.A) 200V-240V(Ver.B)	48V	600W	Total:12A Single:6A	2	19M-6	√
VT-LT3-48600PWLIN-1	Constant Current	100V-120V(Ver.A) 180V-240V(Ver.B)	48V	≤ 600W	Total:12A Single:6A	1	19M-6	√
VT-LT3-48300PWLIN-2	Constant Current	100V-240V	48V	≤ 300W	Total:6A Single:6A	2	16M-6	√
VT-LT3-48600PWLIN-2	Constant Current	180V-240V	48V	≤ 600W	Total:12A Single:6A	atu ₂ m.	19M-6	√
VT-LT3-48800PWLIN-1	Constant Current	100V-240V	48V		14A	1	19M-6	√
VT-LT3-48800PWLIN-2	Constant Current	100V-240V	48V	≤ 800W /Single ≤ 400W	14A	2	19M-6	√
VT-LT3-481200PWLIN-1	Constant Current	100V-240V	48V	≤ 1200W	Total:24A Single:12A	1	19M-6	√
Analog Controller								
VT-LT4-0506PWAC-2	Constant Current	88V-264V	5V	Total:6W Single:3W	/	2	SMP-03V	
VT-LT3-2460PWAC-4	Constant Voltage	100V-240V	24V	60W	Total:2.5A Single:2.5A	4	SMP-03V-BC	

Note: Default -Ver.B version voltage



Infrared Series Camera

- ♦ Short-Wave(SWIR) Industrial Cameras: 400-1800nm
 ♦ Cooled Mid 14/2
- ♦ Cooled Mid-Wave Infrared(MWIR) Cameras: 1500-5200nm
- ♦ Long-Wave Infrared(LWIR) Industrial Cameras: 8000-14000nm







MWIR

LWIR

High-Speed Camera

- ♦ 10GigE, SDI
- 1000 ~ 1000000 FPS

iSpeedy SE Series •



iSpeedy Series



Vision And More Available

让工业更智能, 让视觉更简单!



SWIR Camera Industrial Camera



Macro Lens Industrial Lens



Microscope



System Solution No-programming Software



ADD: No 8, Xiyuan 9th Road Hangzhou 310030 China

TEL: 86-571-86888309

Email: market@visiondatum.com Web: www.visiondatum.com



Official Website



Online Store