

## 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.









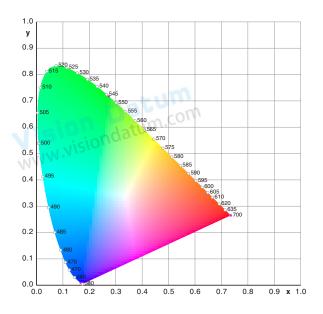


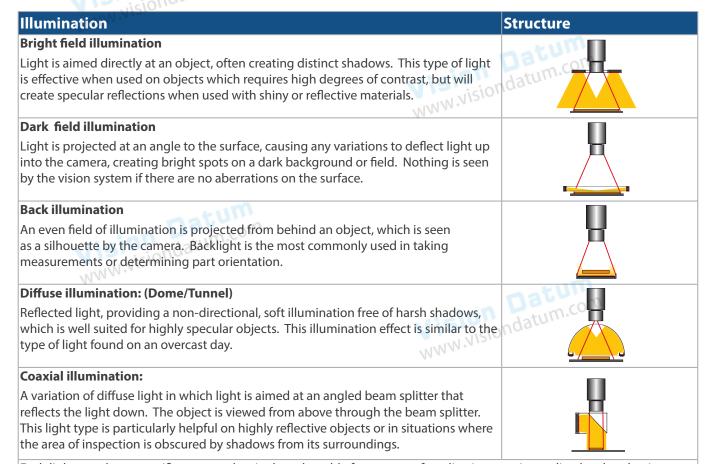
## **USEFUL INFORMATION**

### **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.





# Line Scan Illumination Li Series

#### **Features**

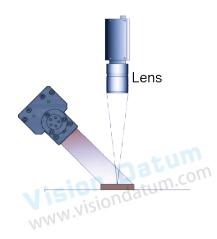
- · Converging lights with optics cylindrical lens to reduce diffusion
- · The width of emitting surface is variable as the distance between LED board and lens is adjustable.
- Light color, cooling method and emitting surface length can be customized according to request. The emitting surface length is specified in 100mm increments, up to 3000mm.

#### **Applications**

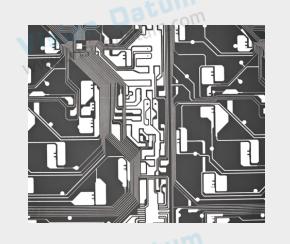
- Inspection of LCD, TP screen, LTO circuit, PCB circuit, medicine and food packaging, defects of printing surface on the assembly line, etc..
- Appearance inspection of food or medicine ...edi www.visiondatum.co



#### **Illumination Structure**



## **Examples of Li Light Images**



#### **Common Specifications**

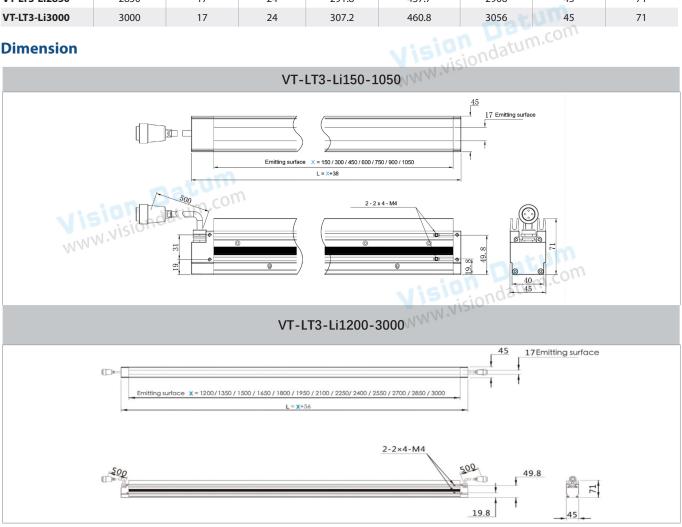
	W v
Input voltage	24 VDC
Connector	20M-4J\20J4TQ\AOPULO
Polarity	1: (-), 2: (-) ,3: (+), 4:(+)
Cable length	500 mm
Auxiliary module	VT-LT3-PiC Kit
Operating environment (indoor)	Temperature: 0~40°C Humidity:20% to 85% RH (with no condensation)
Life time	White:30,000hrs, Red: 60,000hrs (Depends on the operating environment, not a gurantee)
Case material	Aluminum alloy, Resin

## Explanation of Model Code

VT-LT3-Li	100	(W/B/G/R)	
Series	Emitting Length	Color	

	Optica	Optical spec.  Electrical specifications (GREEN / NIR / UV Accept custom)				Dimensions			
Model No.	Light Area		Supply Voltage	Power cons.	Power cons.	Length	Width	Height	
	Length (mm)	Width (mm)	(v)	•	• (w)	(mm)	(mm)	(mm)	
VT-LT3-Li150	150	17	24	15.4	23.1	188	45	71	
VT-LT3-Li300	300	17	24	30.8	46.1	338	45	71	
VT-LT3-Li450	450	tumizom	24	46.1	69.2	488	45	71	
VT-LT3-Li600	600	17	24	61.5	92.2	638	45	71	
VT-LT3-Li750	750	17	24	76.8	115.2	788	45	71	
VT-LT3-Li900	900	17	24	92.2	138.3	938	1.CO 111	71	
VT-LT3-Li1050	1050	17	24	107.6	161.3	1088	45	71	
VT-LT3-Li1200	1200	17	24	122.9	184.4	1256	45	71	
VT-LT3-Li1350	1350	17	24	138.3	207.4	1406	45	71	
VT-LT3-Li1500	1500	17	24	153.6	230.5	1556	45	71	
VT-LT3-Li1650	1650	17	24	168.9	253.4	1706	45	71	
VT-LT3-Li1800	1800	17	24	184.3	276.4	1856	45	71	
VT-LT3-Li1950	1950	17	24	199.6	299.5	2006	45	71	
VT-LT3-Li2100	2100	17	24	215.0	322.5	2156	45	71	
VT-LT3-Li2250	2250	17	24	230.4	345.6	2306	45	71	
VT-LT3-Li2400	2400	17 com	24	245.7	368.6	2456	45	71	
VT-LT3-Li2550	2550	tum	24	261.1	391.6	2606	45	71	
VT-LT3-Li2700	2700	17	24	276.4	414.7	2756	45	71	
VT-LT3-Li2850	2850	17	24	291.8	437.7	2906	45	71	
VT-LT3-Li3000	3000	17	24	307.2	460.8	3056	45	71	

#### **Dimension**



# Overview **Light Controller Collection**



Model <sup>N.W.</sup>	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 <sub>2</sub> 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



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