

# 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.









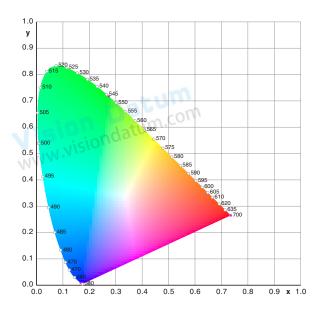


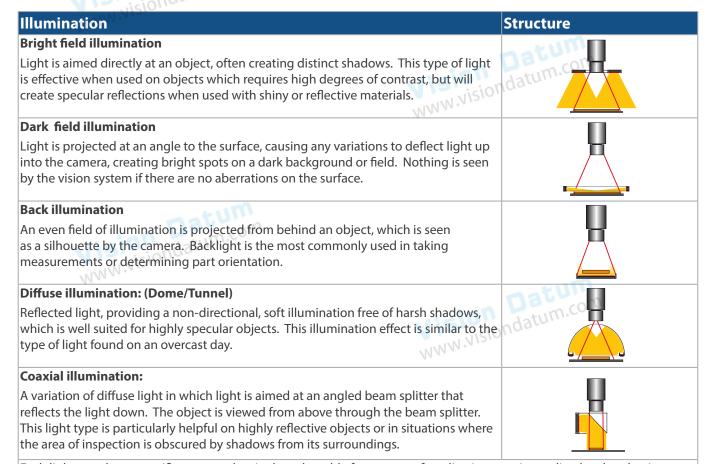
# **USEFUL INFORMATION**

## **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.





# Shadowless Ring Illumination WR Series (Standard with diffuser panel)

Ring lights provide uniform surface illumination.

#### **Features**

- LED beads are evenly distributed around. The light penetrate the LGP and become uniform and diffusible.
- This series are widely used in the occasion that reflective light or light spots are not welcome.

## **Applications**

- Check cigarette case printing
- · Latness of diode pins
- Haracters on IC chips



## **Examples of Shadowless Ring Light Images**



Lights:WR100W

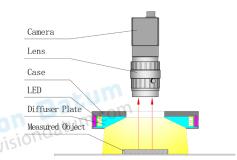
Imaging of CAN's bottom



Lights: WR48W

Imaging of soldering on plastic parts

#### **Illumination Structure**



## **Common Specifications**

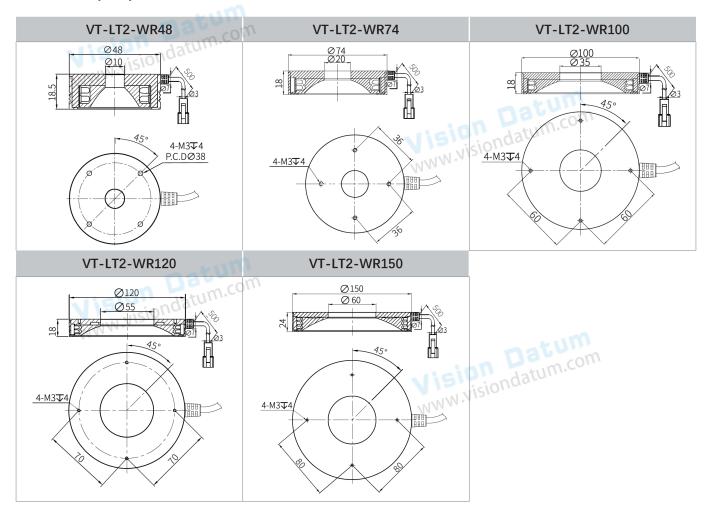
John Marian						
Input voltage	24 VDC					
Connector	SMR-03V-B					
Wavelength range	Red: 620-630nm; Blue: 460-475nm; Green: 520-530nm;					
Color temperature (white)	6000-7500K					
Operating environment (indoor)	Temperature: $0\sim40^{\circ}\text{C}$ Humidity: 20% to 85% RH (with no condensation)					
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-LT2-WR	116	(W/B/R)				
	Series	Outer Diameter	Color				
ision Datum.com							

		ctrical specification		Dimensions			
Model No.	Supply Voltage (v)	Power cons. (w)	Power cons. (w)	Outer diam. (mm)	Inner diam. (mm)	<b>Height</b> (mm)	
VT-LT2-WR48	24	om 2.2	3.8	48	10	18.5	
VT-LT2-WR74	24 24 24	3.6	6.3	74	20	18	
VT-LT2-WR100	24	7.4	9.7	100	atum.com	18	
VT-LT2-WR120	24	9.9	12.7	15 120 and	atum.co	18	
VT-LT2-WR150	24	15.0	20.2	150	60	24	

# **Dimension (mm)**



# Overview **Light Controller Collection**



Model <sup>N.W.</sup>	Drive	In most Valta na	Output	Danner	Output Company	channal	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



# 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