

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.









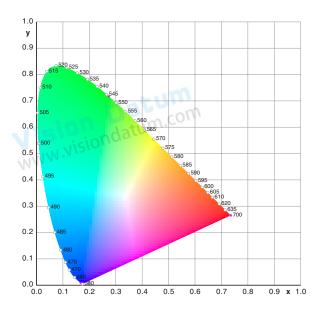


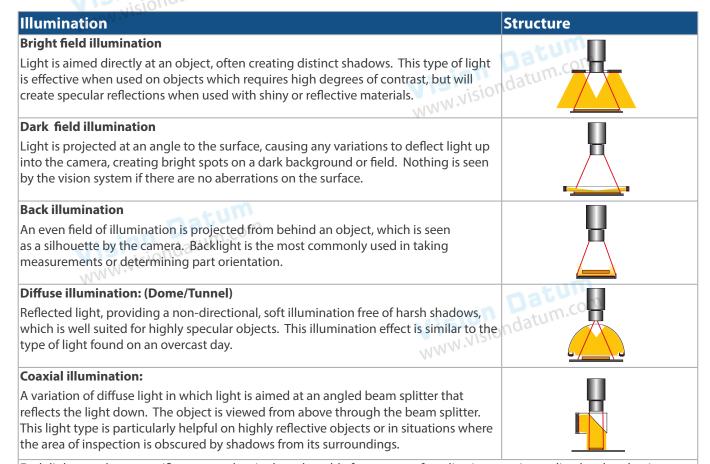
USEFUL INFORMATION

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.





Square Illumination

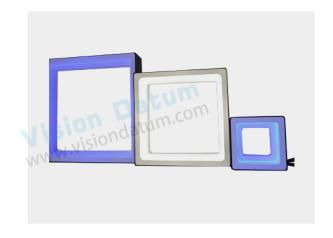
MT Series (Standard with diffuser panel)

Features

- The LED beads are evenly distributed around four sides.
- Diffusion light come through light guiding plate.

Applications

- Inspection of cigarette cases, diode pins flatness characters on IC pins, metal surface scratches, BGA welding spot, etc.
- Perfect for square workpieces, it can detect the outline of corners

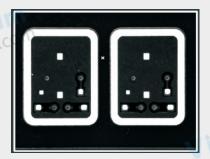


Examples of Shadowless MT Light Images



Lights: MT48B

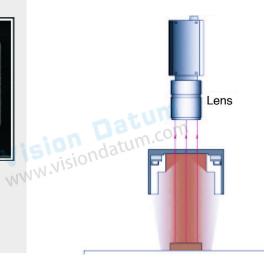
Imaging of outline and surface details of workpiece



Lights: MT48B

Imaging of outline and internal bumps of workpiece

Illumination Structure



Common Specifications

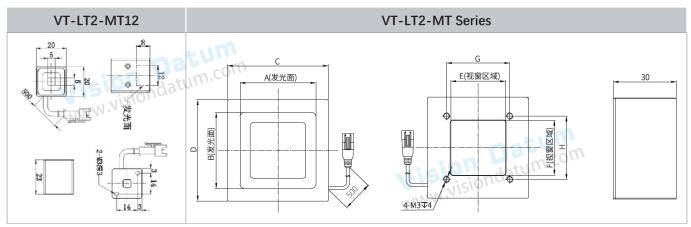
- LIGIU	431011
Input voltage	24 VDC
Connector	SMR-03V-B
Wavelength range	Red: 620-630nm; Blue: 460-475nm; Green: 520-530nm;
Color temperature (white)	5800-7500K
Operating environment (indoor)	Temperature: $0\sim40^{\circ}\text{C}$ Humidity: 20% to 85% RH (with no condensation)
Life time	White:30,000hrs, Red: 60,000hrs (Depends on the operating environment, not a gurantee)
Case material	Aluminum alloy, Resin

Explanation of Model Code

	VT-LT2-MT	60	(W/B/R)
	Series	Lighting Area-Length	Color
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	Optical spec.			Working Distance	Electrical specifications (GREEN / NIR / UV Accept custom)			Dimensions		
Model No.	Light Length (mm)	Area Width (mm)	Inner Hole Size (mm)	Recommend WD (mm)	Supply Voltage (v)	Power cons.	Power cons.	Length (mm)	Width (mm)	Height (mm)
VT-LT2-MT12	12	8 00	∩ 5×5	-	24	-	-	20	20	23
VT-LT2-MT20	20/03	20	10×10	5	24	2.2	2.9	32	32	30
VT-LT2-MT36	36	36	26×26	5	24	4.2	6.2	48	48	30
VT-LT2-MT63	63	63	53×53	12	24	9.9	9.4	75	75	30
VT-LT2-MT84	84	84	74×74	15	24	12.9	11.5	96	96	30
VT-LT2-MT108	108	108	98×98	25	24	15.2	16.8	120	120	30
VT-LT2-MT187	187	107	177×97	35	24	15.5	21.8	200	120	30

Dimension (mm)



Mar Jal Nia	Dimensions									
Model No.	Α	В	С	D	E	F	G	Н		
VT-LT2-MT20	20	20	32	32	10	10	15	15		
VT-LT2-MT36	36	36	48	48	26	26	30	30		
VT-LT2-MT63	63	63	75	75	53	53	57	57		
VT-LT2-MT84	84	84	96	96	74	74	78	78		
VT-LT2-MT108	108	108	120	120	98	98	102	102		
VT-LT2-MT187	107	187	120	200	97	177	102	180		



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



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Macro Lens Industrial Lens



Microscope



System Solution No-programming Software



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