

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.









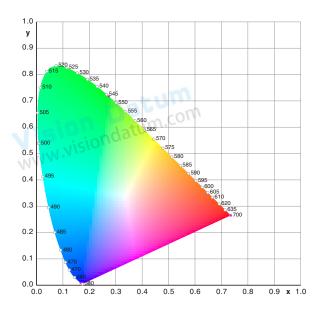


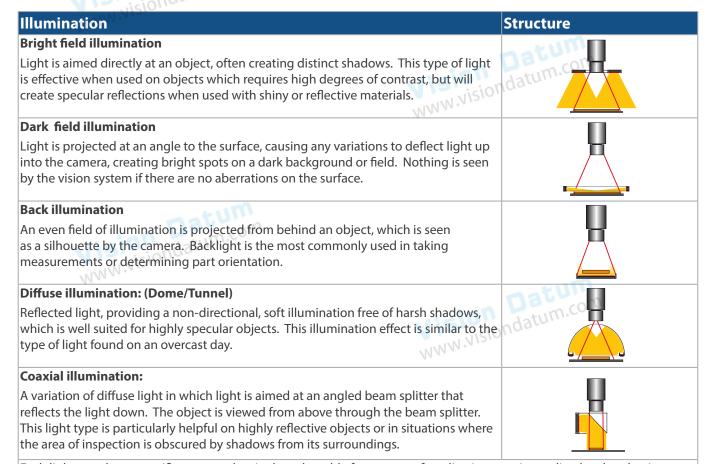
USEFUL INFORMATION

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.





Side Flat Backlights Illumination **BFC Series**

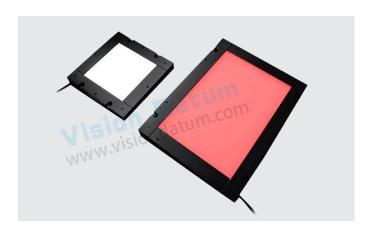
Flat lights provide area illumination with LED beads distributed on the inner side. jondatum.com

Features | | | | | | | |

- Through unique photo-conductive material, light scatters over and over, which can reduce directive of light ray and make it uniform.
- The light color and the size of emitting surface can be easily customized according to request.

Applications

- Dimension measuring, visual inspection.
- · Liquid level inspection, pinhole inspection, and burr inspection for metal parts, etc..
- Inspection for tears/stains on packaging, etc..





Compact design, suitable for a variety of applications.





Lights: BFC5050W

Imaging of agates

Lights: BFC5050B

Imaging of shaft parts.

Appropriate distance the light off working piece can improve the measurement accuracy.

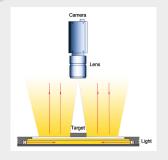


Lights: BFC100100B

Imaging of connecting fingers and surface coating of FPC.

Illumination Structure

Light from the LEDs that are distributed on the inner side passes through the plate to produce uniform illumination.



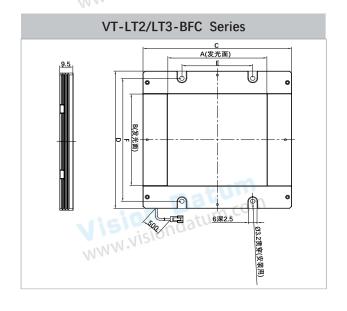
Common Specifications

Input voltage	24 VDC
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-BFC	100	100	(W/B/G/R)
Series	Emitting Length	Emitting Width	Color

	Optical spec.		Working Distance	Electrical specifications (GREEN / NIR / UV Accept custom)			Dimensions		
Model No.	Light Area		Recommended WD	Supply Voltage	Power cons.		Length	Width	Height
	Length (mm)	Width (mm)	(mm)	(v)	(w)	(w)	(mm)	(mm)	(mm)
VT-LT2-BFC5050	50	50	30-100	24	3.0	4	85	85	9.5
VT-LT2-BFC7070	70	70	30-100	24	5.9	7.9	105	105	9.5
VT-LT2-BFC8080	80	80	30-100	24	6.0	10.0	115	115	9.5
VT-LT2-BFC9090	90	tu190.co	30-100	24	6.3	12.6	125	125	9.5
VT-LT2-BFC110110	151110	110	30-100	24	6.8	12.6	145	145	9.5
VT-LT2-BFC150100	150	100	30-100	24	4.4	10.0	185	M 135	9.5
VT-LT2-BFC200160	200	160	30-100	24	6.5	12.1	235	195	9.5
VT-LT2-BFC200200	200	200	30-100	24	6.7 / / /	26.3	235	235	9.5
VT-LT2-BFC250200	250	200	30-100	24	8.4	16.8	285	235	9.5
VT-LT2-BFC300300	300	300	30-100	24	15.5	35.0	335	335	9.5
VT-LT3-BFC300200	300	200	0-100	24	16.8	16.8	334	234	10.5
VT-LT3-BFC350350	350	350	0-100	24	22	22	384	384	10.5
VT-LT3-BFC400300	400	300	0-200	24	23.5	23.5	434	334	10.5
VT-LT3-BFC500400	500	400	0-200	24	30.24	30.24	534	434	10.5
VT-LT3-BFC600400	600	400	0-200	24	33.6	33.6	634	434	10.5
Dimension (mm)									
VT LT2/LT2 DEC Corios				Lighting Drawing Dimension Description an				on and N	



Model No.	Lighting Drawing Dimension Description and Notes							
wodel No.	Α	В	C	D///D	Е	F		
VT-LT2-BFC5050	50	50	85	85	-	75		
VT-LT2-BFC7070	70	70	105	105	50	94		
VT-LT2-BFC8080	80	80	115	115	60	104		
VT-LT2-BFC9090	90	90	125	125	70	114		
VT-LT2-BFC110110	110	110	145	145	90	134		
VT-LT2-BFC150100	150	100	185	135	130	124		
VT-LT2-BFC200160	200	160	235	195	180	184		
VT-LT2-BFC200200	200	200	235	235	180	224		
VT-LT2-BFC250200	250	200	285	235	230	224		
VT-LT2-BFC300300	300	300	335	335	280	324		
VT-LT2-BFC400300	400	300	435	335	380	324		
VT-LT3-BFC300200	300	200	334	234	252	223		
VT-LT3-BFC350350	350	350	384	384	280	373		
VT-LT3-BFC500400	500	400	534	434	340	423		
VT-LT3-BFC600400	600	400	634	434	580	424		

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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System Solution No-programming Software



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