



The Leader and Innovator in Machine Vision Lighting



ABOUT US

Contrastech 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, Contrastech 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.

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









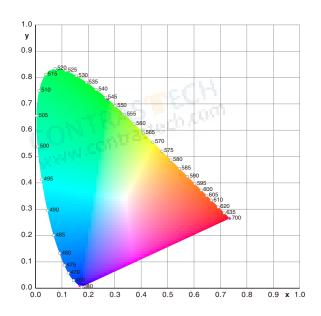


USEFUL INFORMATION

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.



Illumination Structure **Bright field illumination** Light is aimed directly at an object, often creating distinct shadows. This type of light is effective when used on objects which requires high degrees of contrast, but will create specular reflections when used with shiny or reflective materials. Dark field illumination Light is projected at an angle to the surface, causing any variations to deflect light up into the camera, creating bright spots on a dark background or field. Nothing is seen by the vision system if there are no aberrations on the surface. **Back illumination** An even field of illumination is projected from behind an object, which is seen as a silhouette by the camera. Backlight is the most commonly used in taking measurements or determining part orientation. Diffuse illumination: (Dome/Tunnel) Reflected light, providing a non-directional, soft illumination free of harsh shadows, which is well suited for highly specular objects. This illumination effect is similar to the type of light found on an overcast day. **Coaxial illumination:** A variation of diffuse light in which light is aimed at an angled beam splitter that reflects the light down. The object is viewed from above through the beam splitter. This light type is particularly helpful on highly reflective objects or in situations where the area of inspection is obscured by shadows from its surroundings.

Each light type has a specific purpose, but is also adaptable for a range of applications not immediately related to its function. For example, a spotlight, which provides bright field illumination, can be placed at an angle to create a dark field effect. For some applications, the best results are achieved by combining multiple light types.

Coaxial accessories for Line Scan Illumination LiC / LiC+ Kit

Features

- Coaxial function suite, realize the characteristic of line light souce coaxial.
- Match Li or Li+ series line light source to use.

Applications

- PCB detection, flexible circuit board or copper foil detection
- Shadow elimination of large area circuit board fluctuant device

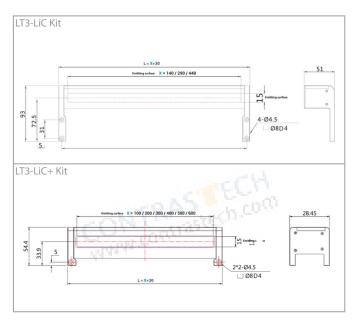


Examples of Li+ & LiC Kit Light Images



Explanation of Model Code

VT-LT3-PiC / LiC+ Kit	-	100
Series		Emitting Length



and the part of th									
	Optical spec. Light Area		Electric	al specif	ications	Dimensions			
Model No.			Supply	Power cons.	Power cons.	Length	Width	Height	
	Length (mm)	Width (mm)	(v)	(w)	(w)	(mm)	(mm)	(mm)	
VT-LT3-LiC140	140	15	48	15.4	23.1	170	51	93	
VT-LT3-LiC290	290	15	48	30.8	46.1	320	51	93	
VT-LT3-LiC440	440	15	48	46.1	69.2	470	51	93	
VT-LT3-LiC+100	100	17	48	48	48	120	28.45	54.4	
VT-LT3-LiC+200	200	17	48	96	96	220	28.45	54.4	
VT-LT3-LiC+300	300	17	48	129.6	129.6	320	28.45	54.4	
VT-LT3-LiC+400	400	17	48	172.8	172.8	420	28.45	54.4	
VT-LT3-LiC+500	500	17	48	216	216	520	28.45	54.4	
VT IT2 LiC (600	600	17	10	250.2	250.2	620	20 45	511	



LT3-Li+ With LT3-LiC-Kit

Overview **Light Controller Collection**



		Pacy Con.						
Model	Drive Mode	Input Voltage	Output Voltage		Output Current	Channel	Output Port	Adapt to line light
Digital Controller					TRA	Pond	COCH	
VT-LT4-0506PWDC-2	Constant Current	88V-264V	5V	Total:6W/Single:3W Expandable: Total:12W/Single:6W	COMICOND	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)						
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	e)	CONTRACTOR OF THE PARTY OF THE			
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	2	19M-6	√
VT-LT3-48800PWLIN-1	Constant Current	100V-240V	48V	< 800W	14A	AS.	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

- ♦ Near-Infrared(NIR) Industrial Cameras: 300-1100nm
- ♦ Short-Wave(SWIR) Industrial Cameras: 400-1800nm
- ♦ Cooled Mid-Wave Infrared(MWIR) Cameras: 1500-5200nm
- ♦ Long-Wave Infrared(LWIR) Industrial Cameras: 8000-14000nm







LWIR

MWIR

High-Speed Camera

- ♦ 10GigE, SDI
- ♦ 1000 ~ 1000000 FPS







iSpeedy Series

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SWIR Camera Industrial Camera



Macro Lens Industrial Lens



Microscope



System Solution No-programming Software



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