CONTRASTECH Machine Vision LED Illumination

Machine Vision UV/IR Illumination



The Leader and Innovator in Machine Vision Lighting

INTRASTECH.com



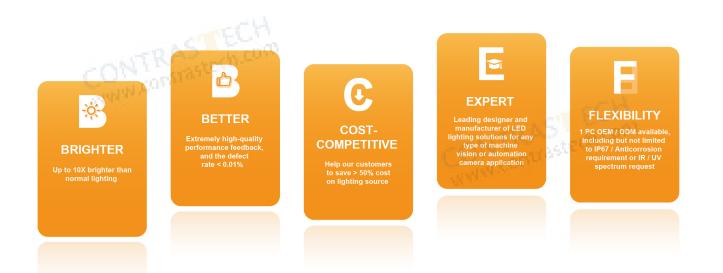
ABOUT US

WWW.COL

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.



1.0	
У	
0.9	
0.8 0.8 0.520,52 0.8 0.520,520 0.515	5 535 540 545
0.7	550
505 0.6 500	555 560 5555 5570
0.5	575
0.4	1585 1590 1595 1605 1605 1605 1605 1610
0.3 490	620
0.2485	635 1700
	70
0.0 0.1	460
0.0 0.1	0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 x 1.0

Illumination of COMPANY AND A COMPANY AN	Structure
Bright field illumination	H A
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.	RAS TO
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.

UV Illumination

Features

- Wide illumination range and uniform illumination;
- Concentrated light for narrow irradiation, long irradiation distance and high radiation intensity
- High-power UV lamp beads, forming high-output, highstable UV lighting

Applications

- Glue detection (containing fluorescent substances)
- Fluorescent character, barcode, QR code recognition
- Detection of UV glue
- Small device bonding

• Defect detection such as minor scratches and bumps on the appearance of products





Features

• Wavelength and size can be customized flexibly

• High-power infrared lamp beads, forming high-output, high-stable infrared lighting

Applications

- Transmissive presence detection
- Medicine (vascular network identification, eye positioning)
- Packaging (see-through plastic packaging inspection)
- Electronics, Semiconductors
- Character reading of plastic products



Wavelength (including IR and UV illumination) and size are available to be customized

CONTRASTECH Illumination

Overview Light Controller Collection



mondal Agric								
Model	Drive Mode	Input Voltage	Output Voltage	Power	Output Current	Channel	Output Port	Adapt to line light
Digital Controller					TRA	2.1	1000	
VT-LT4-0506PWDC-2	Constant Current	88V-264V	5V	Total:6W/Single :3W Expandable: Total:12W/Single:6W	CONVICOND	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	\checkmark
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)	and the local			
VT-LT3-PLU481000LI-6	Constant Voltage	100V-240V	48V	1000W	Total:25A Single:25A	6	16M-2	\checkmark
Line Source Controller								
VT-LT3-24300PWLI-1	Constant Voltage	100V-240V	24V	≤ 300W	12.5A	1	AM20K4Z	\checkmark
VT-LT3-48600PWLI-2	Constant Current	100V-120V(Ver.A) 200V-240V(Ver.B)	48V	600W	Total:12A Single:6A	2	19M-6	\checkmark
VT-LT3-48600PWLIN-1	Constant Current	100V-120V(Ver.A) 180V-240V(Ver.B)	48V	≤ 600W	Total:12A Single:6A	1	19M-6	\checkmark
VT-LT3-48300PWLIN-2	Constant Current	100V-240V	48V	≤ 300W	Total:6A Single:6A	2	16M-6	\checkmark
VT-LT3-48600PWLIN-2	Constant Current	180V-240V	48V	≤ 600W	Total:12A Single:6A	2	19M-6	\checkmark
VT-LT3-48800PWLIN-1	Constant Current	100V-240V	48V	< 800W	14A P	E4	19M-6	\checkmark
VT-LT3-48800PWLIN-2	Constant Current	100V-240V	48V	\leq 800W /Single \leq 400W	14A	2	19M-6	\checkmark
VT-LT3-481200PWLIN-1	Constant Current	100V-240V	48V	≤ 1200W	Total:24A Single:12A	1	19M-6	V
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







MWIR



High-Speed Camera

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



Vision And More Available

让工业更智能,让视觉更简单!





ADD: No 8, Xiyuan 9th Road Hangzhou 310030 China TEL: 86-571-89712238 Email: market@contrastech.com Web: www.contrastech.com

