VICE SMART LED SOLUTIONS

SIGNAGE MODULES



VTM-STL-H

Backlit waterproofLED modules

Top grade 2835 SMD LED brings high brightness, wide angle lens, stable and uniform light distribution for letters and illuminated signs.

General specifications

Input voltage	12/24V DC
Efficacy (lm/W)	160
Ra	≥70
IP class	IP67
Lifetime	50 000H L70
LED type	2835 SMD
Certificates	CE/RoHS/UL

Applications

- Letters
- Illuminated signs
- Creative lighting art



Key features



Outdoor use



Cuttable every LED



5 years warranty



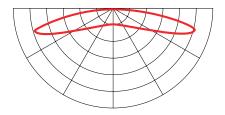


Dimmable

Easy connection and installation

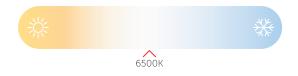
Light distribution graph

Beam angle 170°



Available color temperature

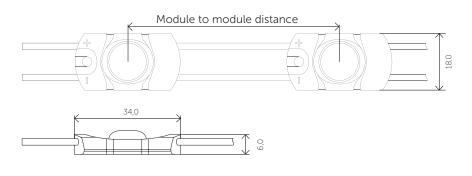
Other color options availabe on request



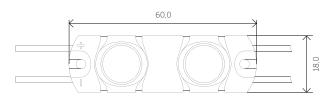
Profile drawings

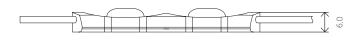
Unit:mm

VTM-STL-H1

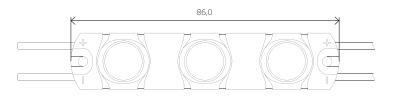


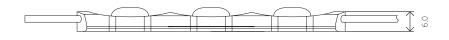
VTM-STL-H2



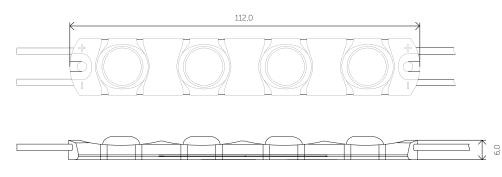


VTM-STL-H3





VTM-STL-H4



Installation reference

24 V

Article name	Surface Material	Depth(H) (mm)	Illumination (lux)	Uniformity	Density (pcs/m²)	Spacing (X*Y)mm	Power Density (W/m²)
		60	6420-8020	0.80	10*10	100*100	72
		80	4160-5220	0.80	8*8	120*120	46
VTM-STL-H-2	White Soft	100	2840-3660	0.78	6*7	160*140	30
VIM-31L-H-2	Film	120	2170-2630	0.83	5*6	180*160	22
		150	1843-2170	0.85	5*5	180*180	18
		180	1674-1879	0.89	5*5	180*180	18
		80	7470-8760	0.85	6*8	160*120	69
	White	100	5070-6210	0.82	6*6	160*160	52
	Soft	120	3410-4370	0.78	5*5	200*200	36
	Film	150	2430-2880	0.84	4*4	250*250	23
		180	2240-2630	0.85	4*4	250*250	23

12V

Article name	Surface Material	Depth(H) (mm)	Illumination (lux)	Uniformity	Density (pcs/m²)	Spacing (X*Y)mm	Power Density (W/m²)
		50	5190-5610	0.94	12*12	80*80	52
	White	60	3280-3880	0.85	10*10	100*100	36
VTM-STL-H-1 Soft Film		80	2050-2360	0.87	7*8	140*120	21
	Film	100	1591-1772	0.90	6*7	160*140	16
	120	1440-1532	0.94	6*7	160*140	16	
		60	6810-7560	0.90	10*10	100*100	72
	White	80	3890-4470	0.87	7*8	140*120	41
		100	2450-3020	0.81	5*6	180*160	22
VTM-STL-H-2	Soft Film	120	1930-2210	0.87	5*5	200*180	18
		150	1734-1927	0.90	5*5	200*180	18
		180	1476-1641	0.90	5*5	200*180	18
		60	9820-11750	0.84	10*12	100*80	130
		80	5250-5710	0.92	7*7	140*140	53
	White	100	3100-3580	0.87	5*5	180*180	27
VTM-STL-H-3	Soft Film	120	1783-2140	0.83	4*4	250*250	18
		150	1642-1857	0.88	4*4	250*250	18
		180	1513-1648	0.92	4*4	250*250	18

Safety & operation instructions

- Requires proper installation by qualified people
- All connections must be made while disconnected from the main power
- For indoor installation environment only
- Operating temperature range: -20°C to 60°C
- Storage temperature range: -20°C to 70°C
- LED bars can be fixed with double-sided tape or screws, clean surface required
- 12/24V DC input: safe, low voltage loss & longer run

Specifications

Article name	Input voltage	Power	Lumen output	Efficacy (lm/W)	Maximum series connections (pcs)	(mm)
VTM-STL-H-1 65K	12V (DC)	0.36W	58 lm	160	50	158
VTM-STL-H-2 65K	12V (DC)	0.72W	115 lm	160	30	204
VTM-STL-H-3 65K	12V (DC)	1.08W	173 lm	160	25	250
VTM-STL-H-2 65K	24V (DC)	0.72W	115 lm	160	50	204
VTM-STL-H-4 65K	24V (DC)	<u>1</u> .44W	230 lm	160	30	296



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April 2020 The information and data given are typical for the equipment desc`ribed. However, any individual item is subject to change without prior notification



Backlit LED modules

Smallest and thinnest 1W SMD LED, with Ultra brightness, uniform light, long lifespan and stable performance. Used for indoor and outdoor signage and totems, advertising box letters or channel letters, back light boxes & banners, exhibition stands, eye catchers for indoor walls, ceilings, ...

General specifications

Input voltage	12 VDC
Input current	100 mA
Light output	105 lm
CRI	≥ 76
Power consuption	1,2 W
IP class	IP65
LED type	3030 LEDs
Certificates	CE/RoHS/UL

Applications

- Advertising box letters
- Backlight boxes and banners
- Exhibition stands
- Ceilings & walls
- Signage letters



Key features



Outdoor use



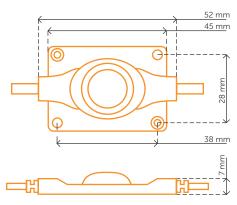




Dimmable

Easy connection and installation

Dimensions



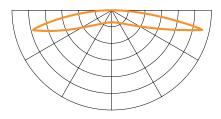
Cuttable every LED

3 Years warranty



Light distribution graph

Beam angle 160°



VDL-S1E-12

Safety & operation instructions

- Requires proper installation by qualified people
- All connections must be made while disconnected from the main power
- Waterproof product for outdoor installation environment
- Operating temperature range: -25°C to 60°C
- Storage temperature range: -40°C to 80°C
- LED bars can be fixed with screws or silicone on clean surface
- 12 V DC input: safe, stable & reliable.

VDL-XXX-XX U Subcategory

Product category

Specifications

Article name	LED (pcs)	Spacing (center to center)	Voltage input	Power	Light output	IP rating	CRI	Max in serial connection	
VDL-S1E		180 mm				IP65			

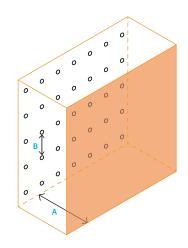
Available color temperature

Other colour options availabe



Recommended dimensions

Thickness of the frame A	Installation pitch <mark>B</mark>	Qty/m²
5cm	8x8cm	12x12pcs
7cm	10x10cm	9x9pcs
10cm	12x12cm	8x8pcs
12cm	15x15cm	7x7pcs
15cm	18x18cm	бхбрсѕ
18cm	18x18cm	бхбрсѕ





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September 2020 The information and data given are typical for the equipment described. However, any individual item is subject to change without prior notification

PVC WATERPROOF MODULE VTM-PQ5-B



Features

- 1. Adopt TM1914A IC for long distance signal transmission without signal distortion or weakness
- 2. PWM signal, 256 grades brightness controllable
- 3. Single-line three-channel LED constant current drive, the external controller can control the chip with single line
- 4. The signal can resume from break point
- 5. Support multiple controllers to realize various light effects
- 6. Controller must be used to lit the product

Application 🔽

Suitable for outdoor architectural decoration like big logo, building, amusement park, hotel, curtain wall, sign and stage etc.

Installation

- 1. Fix by self-adhesive tape
- 2. Fix by screws

Specification

Model No.	Light Color	Color Temperature /Wavelength(K/nm)	Beam Angle	Ra	Typical Luminous Flux value(Im/pcs)	Efficacy (Im/W)	Voltage (V DC)	Power (W/pcs)				
	R	620-625							5-7	≥24		0.2
	G	520-525	4459		10-12	≥49	10	0.2				
VTM-PQ5-B	В	465-470	145°		2-3	≥9	12	0.2				
	RGB	100000			19-21	≥24.5		0.65				

Other Parameters

Model No.	LED Qty/pc	Standard Packing Quantity(pcs)	Max Run (pcs)	Min Cuttable Length(pcs)	Working Temperature	Storage Temperature
VTM-PQ5-B	3	30	30	1	-20~+60°C	-20~+70°C

NOTE:

1. Test environment temperature : 25±2°C.

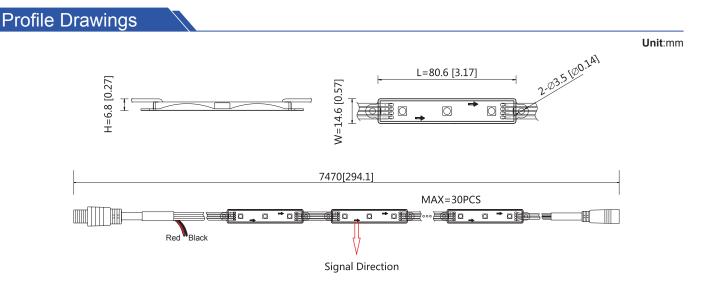
2. The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.

3. Luminous flux is tested when lighting on with the single color.

4. Different color temperature will make luminous flux different.

5. "- -" means no data for now.

6. Power and luminous flux tolerance within ±10%.



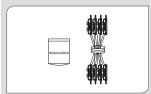
NOTE:

Controller must be used to lit the product. Please contact the sales for detail size. The signal direction is from controller to outside.

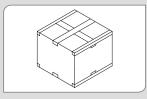
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PVC WATERPROOF MODULE

packing

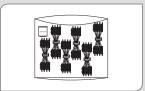


Prepare the desiccant and bind the product.

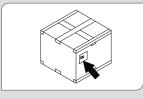


Seal the box.

Packaging information



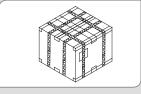
Put the product and desiccant into static shielding bag.



Label the box;



Seal and label the static shielding bag.



Use packing belt to pack after adding the edge protectors.



Put the static shielding bag side by side into carton box.

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
VTM-PQ5-B	80.6X14.6X6.8	570X375X285	60	20	15.03(1±10%)	16.52(1±10%)

Note:

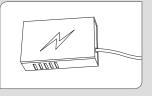
Packing materials: static shielding bag and carton box.

The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation

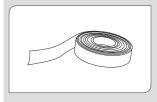
1. Accessories & Tools





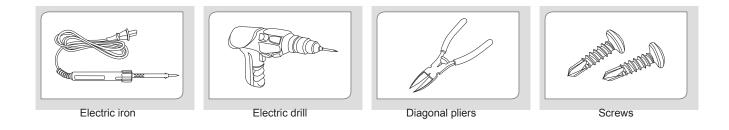
LED power supply



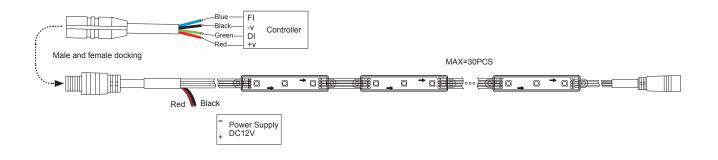


Controller

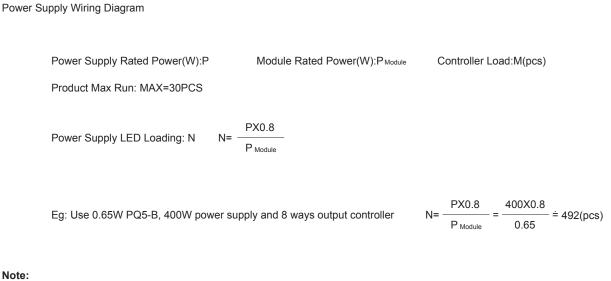
Insulation Tape



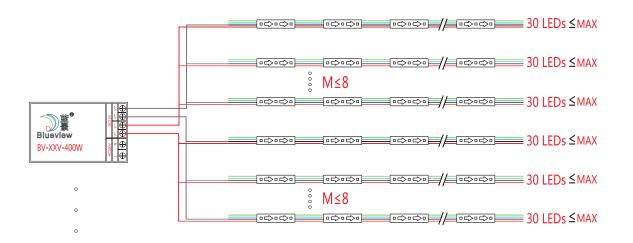
2. Wiring Method



3. Power Supply & Controller Connection

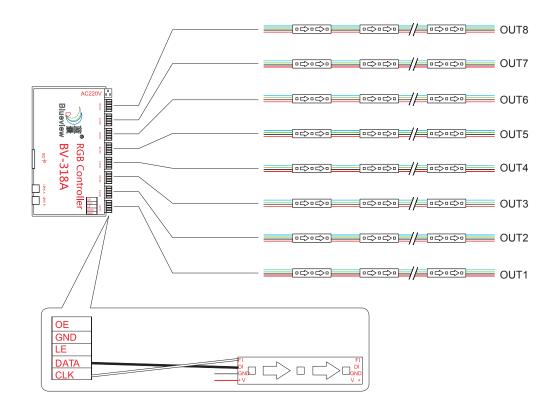


- 1. The value of N is taken as an integer.
- 2. Try to use same amount of products in each output way.
- 3. The working voltage of module must be matched with power supply and controller.



Controller Wiring Diagram(M=8)

Connection of Controller BV-318A



Note:

If the controller is too far from the product, or the signal is too weak, an amplifier must be added. Common market controller: MR-218A,MR-512,T1000,T8000,SP105E,BV-318A etc.

PVC WATERPROOF MODULE

VTM-PQ5-B

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Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specificationsor product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation, waterproof and anti-corrosive treatment.

Common Faults and Troubleshoot

	Quick Gu	ide
Problems	Reasons	Solutions
	No electric supply.	Power on
All LEDs can not light on.	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply
	Power supply line error.	system to fix it.
	Mistaken wire connection of some of products	Correctly connection
	Power overloaded.	Replace with more powerful power
Brightness of LED is inconsistent tor insufficient.	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
	Connection point fault.	Remove bad connection point.
LED flicker.	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

🛕 Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm2 cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements and Recycling

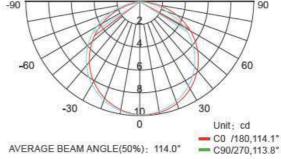
Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged. The parameters given in this manual are typical values and for reference only. All illustrations and drawings in this manual are for reference. This product is subject to change without notice.

Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.





APPLICATION

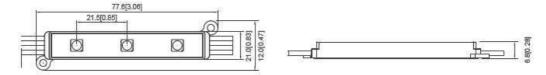
Red Green Blue

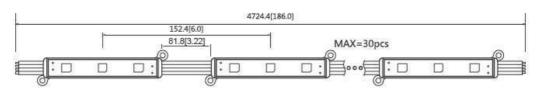
Suitable for big size channel letters or light box 5.5modules/meter

W

DRAWINGS

Unit : mm/inch





OPTICAL & ELECTRICAL PARAMETERS

Model No.	Voltage (DC V)	Beam Angle	CCT/Wavelength (K/nm)	Luminous Flux (Im/pcs)	Efficacy (Im/W)	Ra	Power (W/pc)	Max Run (pcs)	
			W:100000+	22	30	1998	0.72		
	12		R:620-625	7	27	1528	0.24		
PS5-B		12 120°	120°	G:525-530	13	52	1 	0.24	30
				B:465-470	3	13	1.22	0.24	



VSL-S1-12

VSL Edgelit LED Module

Designed for Edge-lit illuminating light box in all shapes



Applications

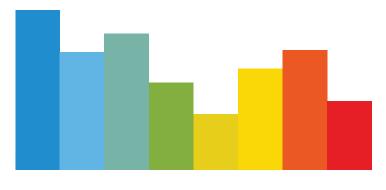
- Single or double sided light boxes
- Retail displays
- Exhibition stand
- Light wall, ceiling, interior



Key Features & Benefits

- Top grade 1W SMD3030 LED, high efficiency
- Single LED is around 95lm
- Side-emitting lens, 15°/45° viewing angle
- High reliability, with enhanced cooling design
- Shell: PC + ABS, with fire rating: VO
- Injection material is UV resistance
- Low light decay, extended lifetime, reduced

total cost of ownership



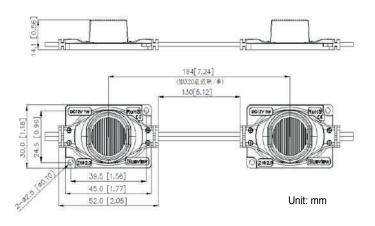


VSL-S1-12

Key Technical Specification

Model	LED	Power	сст	Input Voltage	Lm/W	Light output	Beam Angle	IP rating
VSL-S1-12	1PC	1W	7700-9000K	12V (DC)	95	95 Lumens	Lumens 10° X 45°	

Light Module Dimensions



Safety & Operation Notes

- IP65 water proof installation environment.
- DC12V Input, safe, stable and reliable.
- Fixed by 3M self- adhesive and screw, cuttable by each module
- Max. connection: 20pcs per single chain
- All connections must be completed at zero voltage.
- Installation to be carried out by qualified personnel.
- Operating temperature range: -25 to 60°C.
- Storage temperature range: -40 to 70°C.



Product Photo



Project Reference





Vivalyte BVBA Kouterstraat 6, Wevelgem B-8560, Belgium +32 56 43 28 08 info@vivalyte.com www.vivalyte.com





Product Photo

VSL Edge-Lit LED Module

Side-emitting lens ideal for edge -lit single or double side light box

Applications

- Single or double sided light boxes
- Retail displays
- Exhibition stand
- Light wall, ceiling, interior

Key Features & Benefits

- •Highpower Grade A 3030 2W LED, enhanced reliability
- Ultra brightness, single LED light output 190 lumens
- Side-emitting lens, 15°/45° viewing angle

•Constant current design, brings uniform light and stable performance

•Aluminum PCB with enhanced cooling and extended life time (>50000 hours)

•Low light decay, reduced total cost of owner ship.

- •Shell: PC + ABS, with fire retarding effect, fire rating: V0
- Suitable for 50-100mm super slim light box





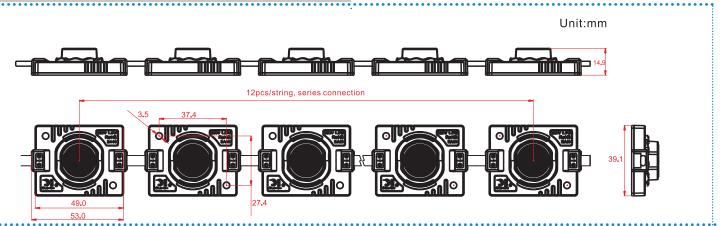


VSL-S2W-12-3

Key Technical Specification

Model	Beam angle	LED	Input Voltage	Power 1 module	ССТ	Light output 1 module	IP rating	Color Index	Cuttable
VSL-S2W-12-3	10×45°	1 PCS	12V (DC)	2 W	6500-7000K	1901m/LED	IP66	>80	3 module

Light Bar Dimensions



Safety & Operation Notes

• IP66 Water proof rated, endurance for harsh outdoor environment.

- Cuttable every 3 pieces of module, 3 LED per string.
- DC12V Input, safe, stable and reliable.
- All connections must be completed at zero voltage.
- Installation to be carried out by qualified personnel.

 The maximum number of LED module connected in series depends on the rated wattage of the power supply and wire gauge

- Operating temperature range: -25 to 60° C.
- Storage temperature range: -25 to 70°C.



Project Reference



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