

Vaio







Vaio

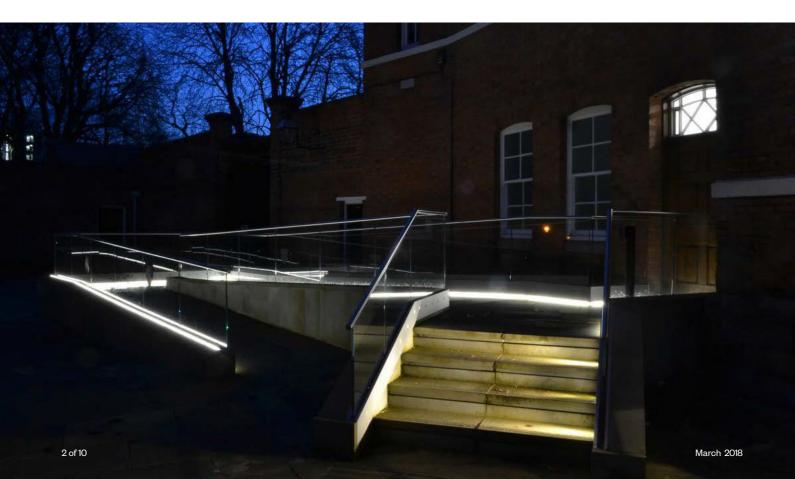
Vaio is a linear, fully encapsulated LED system with the unique capability of creating a continuous line of light when laid end to end.

Available in seven different colours, including warm and cool white and also RGB, its robust construction and clean low profile design allows for installation in a wide variety of applications including areas exposed to vehicle traffic as well as walkways, public squares and architectural applications.

Suitable for flush or surface mounting and exterior and interior applications, Vaio offers specifiers an extremely versatile feature lighting solution.

Key features

- Vaio can provide a continuous line of light
- Easy to use IP68 plug and socket connector system
- Available in five different standard lengths (250, 500, 750 & 1000mm) and two heights (30 or 40mm)
- Each RGB unit is complete with individually addressable DMX driver





White Monochrome		Height:	40mm*	Height: 30mm		
		Lumens/m	Lumens/W	Lumens/m	Lumens/W	
Eco (3,5W/m)	Diffused	76	22	137	39	
	Clear	156	45	163	47	
	Diffused	173	25	287	41	
Plus (7W/m)	Clear	339	48	338	48	
Power (15W/m)	Diffused	438	29	692	46	
	Clear	801	53	822	55	

Options

Unit type:	
Monochrome Vaio	RGB Vaio

ECO version: 3.5W/m* PLUS version: 7W/m POWER version: 15W/m RGB Vaio ECO version: 9W/m PLUS version: 17W/m

Standard unit length	options:	Unit height options: - 30mm - 40mm*		
Mono-colour Vaio - 250mm - 500mm - 750mm - 1000mm Lamp colour options:	RGB Vaio - 500mm - 1000mm			
- Cold white 6100K - Neutral white 4100k - Warm white 2800K		- RGB (Programmable Multi-colour)		
Other:				

24v DC power supplies available as required on project-by-project basis

Materials

Body:	Glazing options:		
Extruded Anodised Aluminium	Integral opaque surface with below finish options: - Diffused*		
	- Clear		
Connections:			

IP68

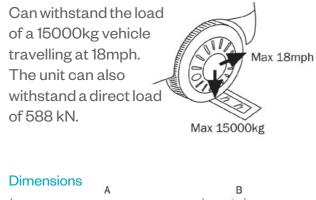
* Standard options



Product codes:

Monochrome	RGB	Vaio LED	Example
1. Model			VAI
Е	E	Eco	
PL	PL	Plus	
PO		Power	PO
2. Lamp			
R		Red LEDs	
CW		Cold White LEDs (6100K)	
NW		Neutral White LEDs (4100k)	NW
WW		Warm White LEDs (2800k)	
В		Blue LEDS	
Α	1	Yellow LEDS	
G		Green LEDS	
	RGB	RGB LEDS	
3. Size			
250]	250	
500	500	500	
750		750	750
1000	1000	1000	

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Dimensions (mm)	Weight (kg)		
А	в	С	
250/500*/750	30	40	1.7kg (max)
1000*		30	

* RGB 500 & 1000mm lengths only

Monochrome Vaio installation guide

Design rules

- Current through cables may not exceed 4A.
 - Each Vaio string has to be fused (4A surge fuse).

- The first unit in a Vaio string has to receive 24VDC

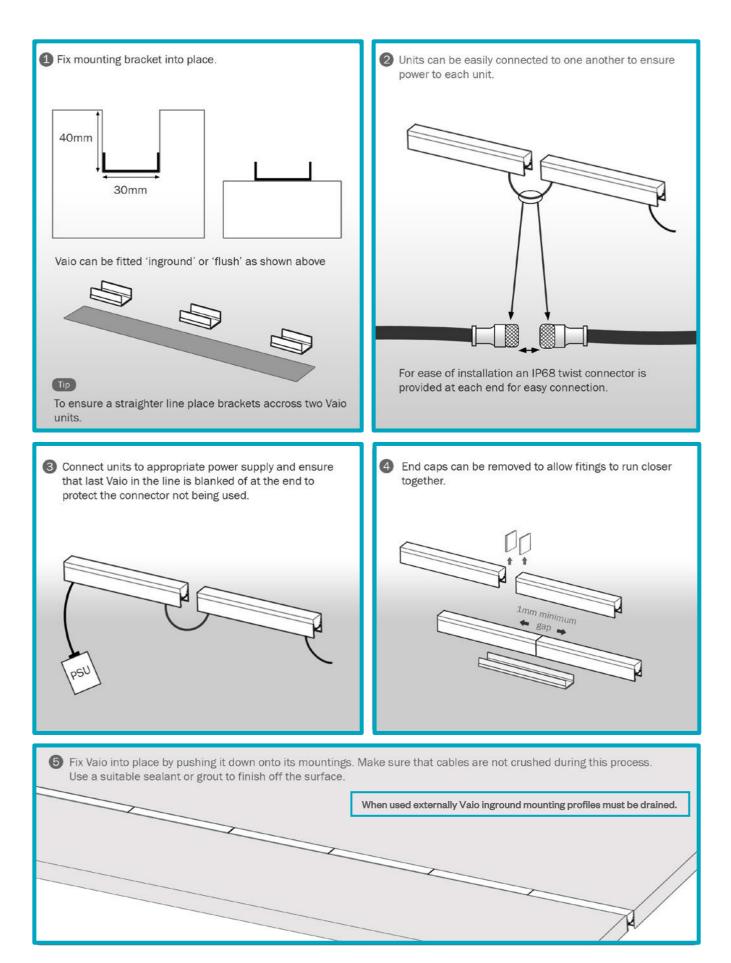
- When the distance between the vaio string and power supply becomes large, you can:
 - Increase the output voltage of the power supply.
 - Enlarge the cable section.
- A maximum of 15 1000mm Vaio (Eco & Plus units) can be placed in one string.

- Although a string of 15 Vaio will not generate currents above 4A, the voltage drop becomes important placing Vaio in one string.

Wiring guide

Wire Colour	Description
Brown	+ Connection
White	- Connection
Black	Not Connected









Vaio supply cable guidelines

- The following table is calculated for a power supply with an output voltage of 26V. The maximum length is calculated in order to get 22V at the end of the supply cable.

Number of Vaio Units (1m)	Cable section (mm2)	Mono Eco (m)	Mono Plus (m)	RGB Same Address Eco (m)	RGB Same Address Eco (m)	RGB Same Address Plus (m)
1	2.5	992	496	229	397	198
2	2.5	496	248	114	198	99
3	2.5	331	165	76	132	66
4	2.5	248	124	57	99	50
5	2.5	198	99	46	79	40
6	2.5	165	83		66	
7	2.5	142	71		57	
8	2.5	124	62		50	
9	2.5	110	55		44	
10	2.5	99	50		40	

- Greater distances can be achieved through the use of cable with larger cross sections.

Cables can be supplied in 4mm & 6mm section, please enquire for a larger table of the full range of options.

RGB Vaio installation guide

RGB driver

- The RGB drivers are DMX addressable with Remote Device Management (RDM) and the use of a Remote Addressing Device (RAD). The DMX driver 'clicks' into the Vaio extrusion for easy installation .

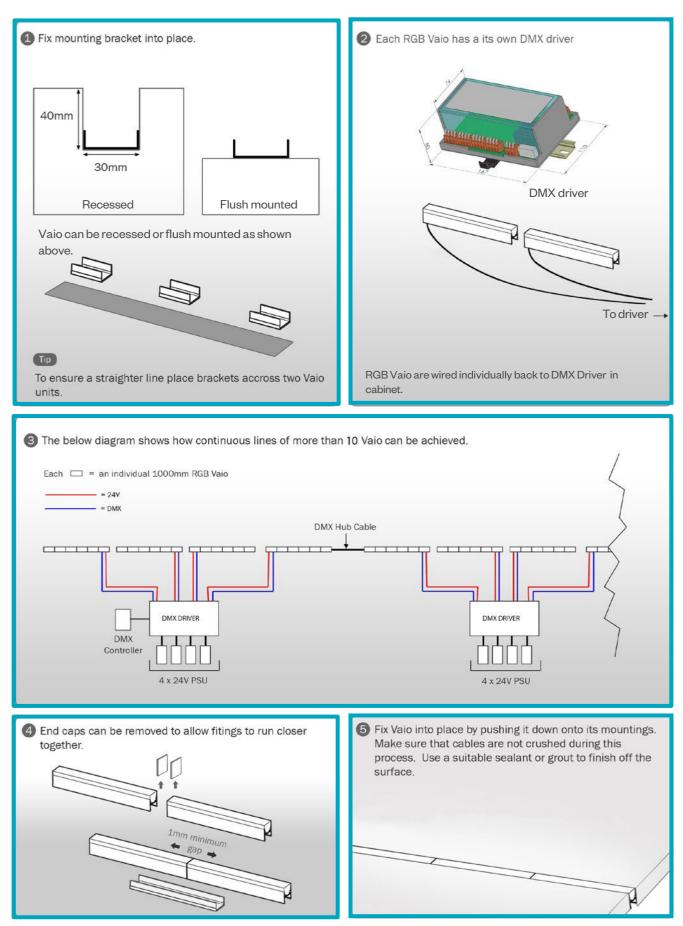
Design rules

- Current through cables may not exceed 4A.
 - Therefore a maximum of 10 (1000mm) Vaio units can be placed in a string.
 - Each Vaio string has to be fused (4A surge fuse).
- The first Unit in a Vaio string has to receive 24VDC
 - When the distance between the Vaio string and power supply becomes too large, you can:
 - Increase the output voltage of the power supply.
 - Increase the cable section.

Wiring guide

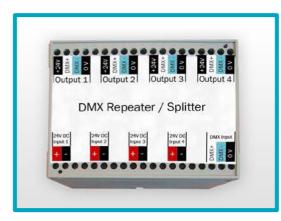
Wire Colour	Description
Brown	+24V DC
White	DMX +
Blue	DMX -
Black	Neutral (for DMX & Power Supply)

RGB Vaio installation guide









DMX splitter:

A DMX splitter box separates the power supply between different Vaio strings and boosts the DMX signal to each Vaio string. With one DMX splitter box it is possible to drive 24 Vaio LED's (1000mm).



DMX hub cable (male to male): VAIDMXHUB

Transmits DMX, and blocks power supply.



Power supplies

Part Numbers	Power	Output Voltage	Voltage Adjustment	Power Factor Correction (PFC)
HLG-60H-24	60W	24V	±10%	None
HLG-75H-24	75W	24V	-5~+10%	PF> 0,93
HLG-150H-24	150W	24V	-5~+10%	PF> 0,93
HLG-240H-24	240W	24V	±10%	PF> 0,93



Connecting cables

	Descr	iption	Single Colour Part Number		
Connecting	cable	(male/female)	1m	VAIEL01M	VAIEL01MRGB
Connecting	cable	(male/female)	2 m	VAIEL02M	VAIEL02MRGB
Connecting	cable	(male/female)	3m	VAIEL03M	VAIEL03MRGB
Connecting	cable	(male/female)	5m	VAIEL05M	VAIEL05MRGB
Connecting	cable	(male/female)	10m	VAIEL10M	VAIEL10MRGB



DMX resistor (male): VAIDMXRESIST

Transmits DMX, and blocks power supply.



Endeap connector (Male or Female): VAIECCM8– To protect the supply leads that are not being used.

Ground support frame

Made to special order. Used to boost the height of Vaio when paving or channel is deeper than 40mm. (Vaio and mounting bracket not included.)





March 2018