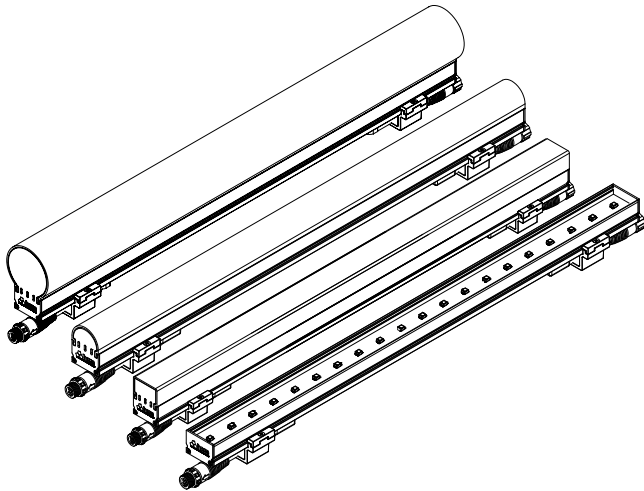


Date \_\_\_\_\_  
 Company \_\_\_\_\_  
 Project \_\_\_\_\_



## Explanation

Sword® Dynamic White Series, provides optimum illumination with excellent range of color temperatures in media facade lighting, bridges, stadiums, creative stage lighting and specialized lighting design. Desired animations can be achieved using LEDs at range of color temperatures between 2700K and 6500K. Sword® DW fixture provides a dynamic lighting solution with unlimited pixel options, advanced accessory alternatives and easy assembly structures. Sword® DW is used specifically in dynamic lighting applications that require a long and linear appearance, and thus offers great opportunities for special lighting designs as well.

- Sword® DW delivers the desired color tone due to adjustable white color options. Furthermore, the desired animation that is required for warm and cold color range, can be achieved using 2700K and 6500K LEDs.
- Sword® DW provides compatible communication with other fixtures using standard DMX512 and RDM protocols without requiring any other special communication protocol or production ID. They are remotely addressable in group via RDM protocol. This feature allows for easy pixel mapping and addressing after all installations have been completed.
- Sword® DW fixtures enable flexible application using very long starter and jumper cables, since they operate in a 48V DC voltage range
- The operating characteristics of the fixtures are able to be changed with the DMX Personality, therefore it is possible to change the number of pixels of the products as well. The number of pixels of the fixtures can be changed to be optimized for appearance and scenario variations. For example, each LED in the 25mm range can be 1 pixel, or 2 LEDs, 4 LEDs, 8 LEDs as 1 pixel.
- Through RDM monitoring and software, it is possible to follow and determine: whether the fixtures are working properly, by displaying voltage input and output warnings, serial number, display of regional temperature values and DMX address. The user is informed by e-mail according to incoming data thus, automatic interventions are possible based on received data.
- Sword® DW fixtures work through Madrix® software and hardware in coordination. Pixel mapping can be made easily by selecting fixtures in the Madrix® library.
- Direct View, Flat Diffused, Radius Diffused, Round Diffused options are available. Diffuser profiles are resistant to impacts and UV, and never turn yellow during their lifetime due to the alloyed PMMA and PC structure.
- Sword® DW creates a continuous linear appearance. Due to the special side-cover design, fixtures are mounted side-by-side and no shadows are formed between them.
- Available for different form of applications in different lengths: 300mm, 600mm, 900mm, 1200mm, 1500mm. Sword® DW has extra flexible mounting feature for confined spaces, with mounting bracket that can move on the fixture.
- Sword® DW fixture is in IP67 protection class and it is designed to meet challenging requirements of exterior facade applications with its robust and durable structure. Sword® DW is resistant to impact, vibration and other harsh conditions, due to aluminum housing and special filler material.
- Sword® DW provides power and data transmission via input and output connectors. IP67 connectors are in push-lock structure. They can be easily rotated and assembled, and leave sufficient gaps between the fixtures. There is no need to use extra junction-box via input and output.
- The slim profile (30mm) ensures to integrate and camouflage the different types of facade coatings easily. Produced in RAL9005-black color as standard, and it is also available in different colors in RAL code upon request.

	Direct View	Radius Diffused	Round Diffused	Flat Diffused
<b>Output</b>				
Light Source:	Color temperatures ranging from 2700 K to 6500 K			
LED Pitch:	25mm			
Lumen Maintenance:	60,000 > hours L70 @ 50° C (full output)			
Ra(CRI):	Color Range: Color temperatures ranging from 2700 K to 6500 K Warm White 77CRI, Cool White 75CRI, DW Full on 79CRI			
Beam Angle:	130°	160°	165°	160°
Luminous Flux:	402 lm/m	262 lm/m	289 lm/m	282 lm/m
Luminous Intensity:	125 cd/m	47 cd/m	52 cd/m	51 cd/m
Efficacy (lm/W):	32 lm/W	21 lm/W	23 lm/W	22 lm/W

\*Photometric performance is measured in compliance with IESNA LM 79-08

### Control & Programming

Pixel Pitch:	Pixel pitch is configurable via RDM, max 40pixel/m
Color Resolution:	2 x 16-bit (Gamma correction)
Addressing:	RDM (Group of Remote Addressable Systems)
Monitoring:	Voltage Monitoring, Temperature Monitoring, Status Monitoring, Power Cycle Monitoring, Lumen-Maintenance Life Monitoring
PWM Frequency:	1,600Hz flicker free dimming to 0.1%
DMX Compliance:	USITT DMX512-1990
RDM Compliance:	ANSI/ESTA E1.20-2010

### Electrical

Operating Voltage:	48V DC
Power Consumption:	300mm 4,5W / 600mm 9W / 900mm 13,5W / 1200mm 18W / 1500mm 22W 15 W/m Maximum at full output, steady state
Maximum in Chain:	Max 20 meters or 32 pieces (varies by selected dmx personality)
Connections:	Push Lock Type 2+4 Pin Waterproof Connector

### Physical

Housing:	Extruded Aluminium
Front Material:	Extruded Polycarbonate UV and impact resistant opal diffuser
End Cap Material:	Aluminium
Installation Brackets:	Die-Cast Aluminium
Hardware:	Stainless Steel
Gasket:	Silicone
Surface Finish:	RAL 9005 Electrostatically polyester powder coat (standard) or custom any RAL (optional)

### Measurements:

Weight:	300mm	0,400kg (0,81lb)	0,420kg (0,92lb)	0,440kg (0,94lb)	0,460kg (1,01lb)
	600mm	0,830kg (1,82lb)	0,850kg (1,87lb)	0,880kg (1,94lb)	0,900kg (2,18lb)
	900mm	1,26kg (2,77lb)	1,28kg (2,82lb)	1,30kg (2,86lb)	1,36kg (2,99lb)
	1200mm	1,60kg (3,52lb)	1,62kg (3,55lb)	1,64kg (3,41lb)	1,66kg (3,43lb)
	1500mm	2,00kg (4,40lb)	2,20kg (4,85lb)	2,40kg (5,20lb)	2,60kg (5,73lb)
Dimensions: (H x W x D)	300mm	40,5x303x45,5 mm (1,6x11,8x1,8 in)	40,5x303x65,5 mm (1,6x11,8x2,55 in)	40,5x300x94,15 mm (1,6x11,8x3,72 in)	40,5x303x65,5 mm (1,6x11,8x2,55 in)
	600mm	40,5x603x45,5 mm (1,6x23,6x1,8 in)	40,5x603x65,5 mm (1,6x23,6x2,55 in)	40,5x600x94,15 mm (1,6x23,6x3,72 in)	40,5x600x65,5 mm (1,6x23,6x2,55 in)
	900mm	40,5x903x45,5 mm (1,6x35,4x1,8 in)	40,5x903x65,5 mm (1,6x35,4x2,55 in)	40,5x900x94,15 mm (1,6x35,4x3,72 in)	40,5x903x65,5 mm (1,6x35,4x2,55 in)
	1200mm	40,5x1203x45,5 mm (1,6x47,2x1,8 in)	40,5x1203x65,5 mm (1,6x47,2x2,55 in)	40,5x1200x94,15 mm (1,6x47,2x3,72 in)	40,5x1203x65,5 mm (1,6x47,2x2,55 in)
	1500mm	40,5x1503x45,5 mm (1,6x59x1,8 in)	40,5x1503x65,5 mm (1,6x59x2,55 in)	40,5x1500x94,15 mm (1,6x59x3,72 in)	40,5x1503x65,5 mm (1,6x59x2,55 in)

### Environmental

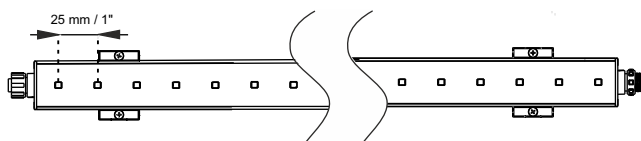
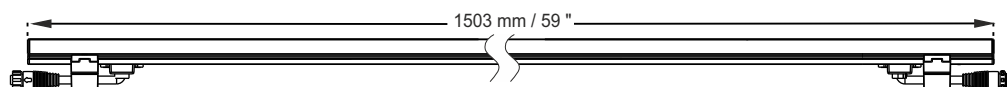
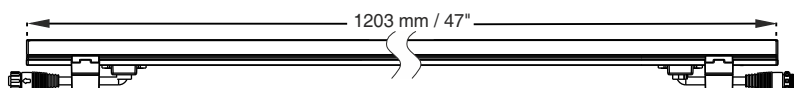
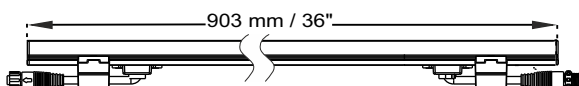
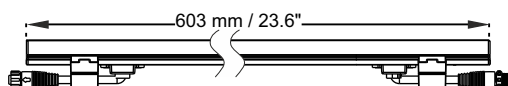
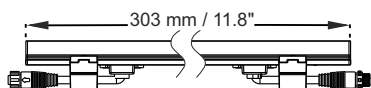
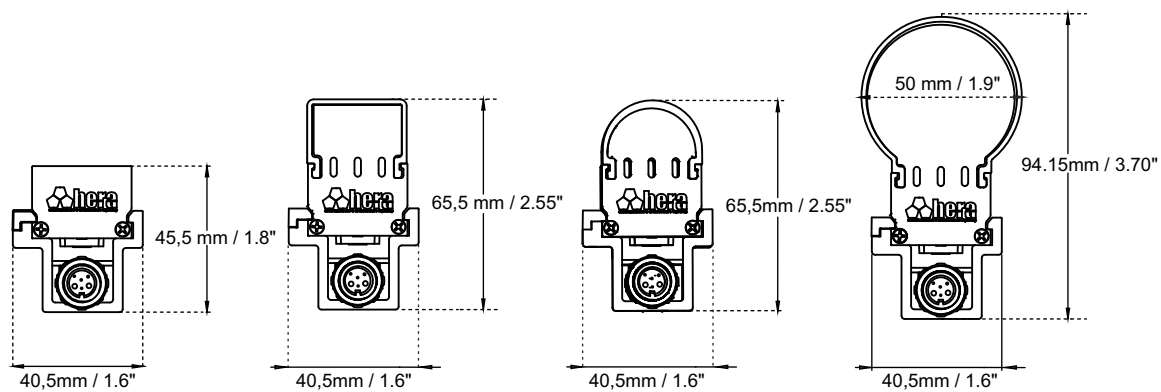
Storage Temperature:	-40°C - 85°C - (-40°F - 185°F)
Start-up Temperature:	-25°C - 50°C - (-13°F - 122°F)
Operating Temperature:	-40°C - 50°C - (-40°F - 122°F)
Thermal Protection:	Automatic over temperature protection
Cooling:	Cooling by free air convection
Vibration Resistance:	Complies with ANSI C136.31-2010
Corrosion Resistance:	Complies with ASTM B117 standard
Ingress Protection Rating:	IP67
Impact Resistance Rating:	IK10
Humidity (max.):	0 to 98%, non-condensing

### Test:

All Hera LED products are assessed by a stringent 100 hour test, above and beyond what they would come across in the real world. This can be seen from our advanced RDM Monitoring System as well, leaving no place for doubt. This strict testing, builds trust, when your reputation is on the line. It is our company's culture and heritage, also our way of securing our worthwhile Customers.

### Certification

EU Safety:	EN 60598-1, EN 60598-2-3, EN 62471, EN 60950-1, EN 60950-22, EN 60529, EN 62262
EU EMC:	N 55024, EN 55032, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6, EN 61000-4-8
US Safety:	UL 1598, UL 60950-1, UL 60950-22
US EMC:	FCC Part 15 Class A
Warranty:	5-year Limited Warranty







## RDM Explanation

Sword® DW Series complies with the RDM Monitoring Command System. In order to use RDM Monitoring System, a compatible controller is required depending on the installation. Through DMX data connection, it is possible to control or change the fixture's settings, send commands and receive or monitor the fixture's data. The recommended RDM controller and the wiring diagram can be found on page 5. RDM command functions supported by Sword® DW Series are given in the list below.

Device Management	Get	Set
Device Info	✓	
DMX Start Address	✓	✓
Identify Device	✓	✓
Device Model Description	✓	
Device Label	✓	✓
Software Version Label	✓	
DMX Personality	✓	✓
DMX Personality Description	✓	
Device Hours	✓	
Lamp Hours	✓	
Device Power Cycles	✓	
Status Message	✓	
Queued Message	✓	
Status ID Description	✓	
Supported Parameters	✓	
Parameter Description	✓	
Factory Defaults		✓
Sensor Definition	✓	
Sensor Value	✓	
Record Sensor		✓
Reset Device		✓
Power State	✓	✓
Perform Self Test		✓
Self Test Description	✓	
Language	✓	

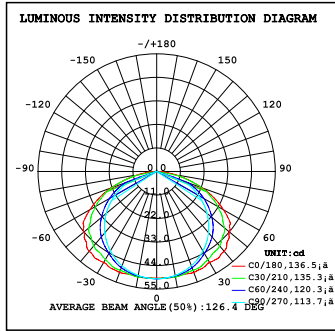
\* The command names and command functions used on different RDM controllers may vary.

\* Incompatible RDM controllers may cause drawbacks such as partial operation, no-operation, or incorrect fixture information.

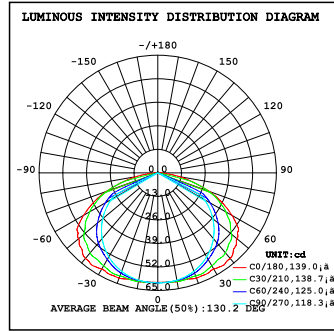
\* You can check the recommended RDM controllers on the [www.heraled.com](http://www.heraled.com) website.

## Sword® DW Series Direct View

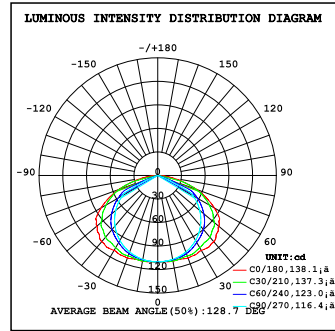
2700K



6500K

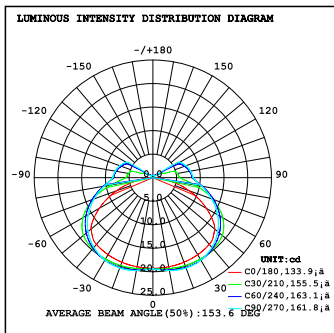


Full On

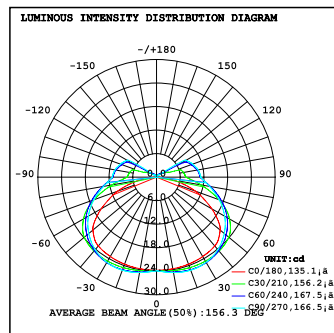


## Sword® DW Series Flat Diffused

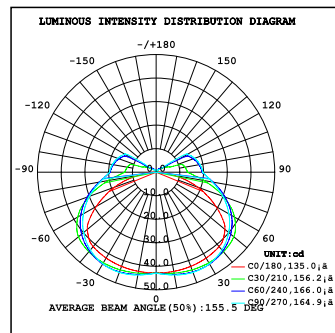
2700K



6500K

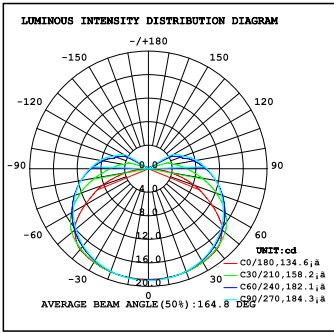


Full On

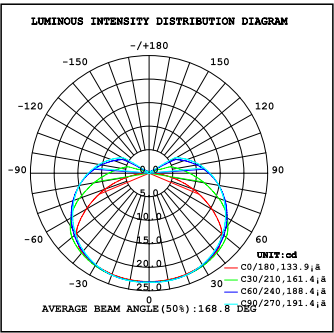


## Sword® DW Series Radius Diffused

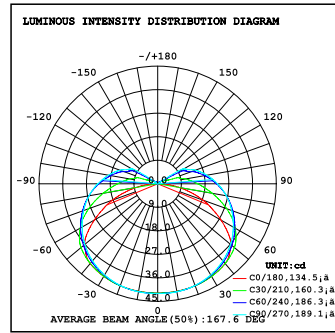
2700K



6500K

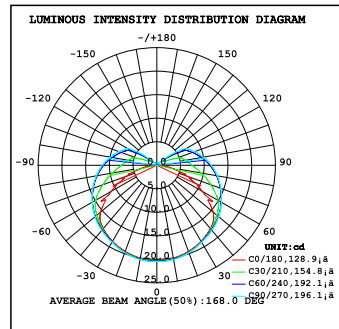


Full On

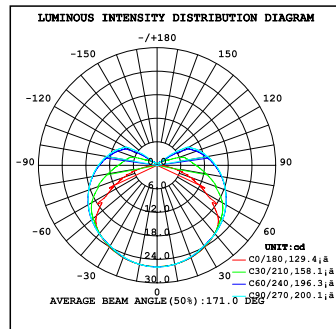


## Sword® DW Series Round Diffused

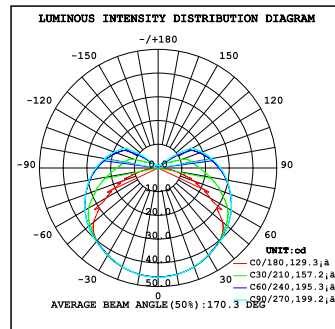
2700K



6500K



Full On



\*Please visit [www.heraled.com](http://www.heraled.com) for detailed information and laboratory reports.

**Sword® 300DW (Raw Mode)**

No	Fixture Personality	Channel	Value	Function	Description	
1	DW Raw Mode 1 LED:1px	(24Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
2	DW Raw Mode 2 LEDs:1px	(12Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
3	DW Raw Mode 3 LEDs:1px	(8Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
4	DW Raw Mode 4 LEDs:3px	(6Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
5	DW Raw Mode 6 LEDs:2px	(4Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
6	DW Raw Mode 12LEDs:1px	(2Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	

**Sword® 600DW (Raw Mode)**

No	Fixture Personality	Channel	Value	Function	Description	
1	DW Raw Mode 1 LED:1px	(48Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
2	DW Raw Mode 2 LEDs:1px	(24Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
3	DW Raw Mode 3 LEDs:1px	(16Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
4	DW Raw Mode 4 LEDs:3px	(12Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
5	DW Raw Mode 6 LEDs:2px	(8Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
6	DW Raw Mode 12LEDs:1px	(4Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	

**Sword® 900DW (Raw Mode)**

No	Fixture Personality	Channel	Value	Function	Description	
1	DW Raw Mode 1 LED:1px	(72Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
2	DW Raw Mode 2 LEDs:1px	(36Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
3	DW Raw Mode 3 LEDs:1px	(24Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
4	DW Raw Mode 4 LEDs:3px	(18Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
5	DW Raw Mode 6 LEDs:2px	(12Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
6	DW Raw Mode 12LEDs:1px	(6Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	

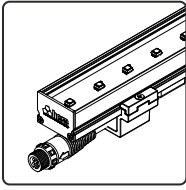
**Sword® 1200DW (Raw Mode)**

No	Fixture Personality	Channel	Value	Function	Description	
1	DW Raw Mode 1 LED:1px	(96Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
2	DW Raw Mode 2 LEDs:1px	(48Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
3	DW Raw Mode 3 LEDs:1px	(32Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
4	DW Raw Mode 4 LEDs:3px	(24Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
5	DW Raw Mode 6 LEDs:2px	(16Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
6	DW Raw Mode 12LEDs:1px	(8Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	

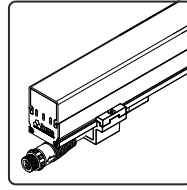
**Sword® 1500DW (Raw Mode)**

No	Fixture Personality	Channel	Value	Function	Description	
1	DW Raw Mode 1 LED:1px	(120Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
2	DW Raw Mode 2 LEDs:1px	(60Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
3	DW Raw Mode 3 LEDs:1px	(40Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
4	DW Raw Mode 4 LEDs:3px	(30Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
5	DW Raw Mode 6 LEDs:2px	(20Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	
6	DW Raw Mode 12LEDs:1px	(10Ch.)	1	0-255	2700K: 0-100%	Each temperature (2700K-6500K) can be controlled individually
			2	0-255	6500K: 0-100%	

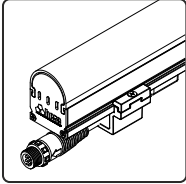
**Products**



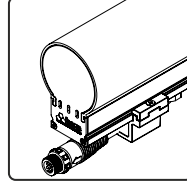
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 P01059125 Sword® DW 600mm Direct View  
 P01060125 Sword® DW 900mm Direct View  
 P01061125 Sword® DW 1200mm Direct View  
 P01062125 Sword® DW 1500mm Direct View



P01094125 Sword® DW 300mm Flat Diffused  
 P01095125 Sword® DW 600mm Flat Diffused  
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 P01097125 Sword® DW 1200mm Flat Diffused  
 P01098125 Sword® DW 1500mm Flat Diffused

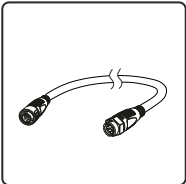


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 P01067125 Sword® DW 600mm Radius Diffused  
 P01068125 Sword® DW 900mm Radius Diffused  
 P01069125 Sword® DW 1200mm Radius Diffused  
 P01070125 Sword® DW 1500mm Radius Diffused



P01078125 Sword® DW 300mm Round Diffused  
 P01079125 Sword® DW 600mm Round Diffused  
 P01080125 Sword® DW 900mm Round Diffused  
 P01081125 Sword® DW 1200mm Round Diffused  
 P01082125 Sword® DW 1500mm Round Diffused

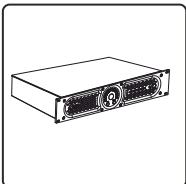
**Cable**



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 P20202-2.5 Push Lock Type 2+4 Pin 2.5M Extension Cable  
 P20202-5 Push Lock Type 2+4 Pin 5M Extension Cable  
 P20202-7.5 Push Lock Type 2+4 Pin 7.5M Extension Cable  
 P20202-10 Push Lock Type 2+4 Pin 10M Extension Cable  
 P20202-15 Push Lock Type 2+4 Pin 15M Extension Cable  
 P20202-20 Push Lock Type 2+4 Pin 20M Extension Cable  
 P20202-0.5 Push Lock Type 2+4 Pin 0.5M Extension Cable  
 P20202-0.75 Push Lock Type 2+4 Pin 0.75M Extension Cable  
 P20202-1 Push Lock Type 2+4 Pin 1M Extension Cable  
 P20202-1.5 Push Lock Type 2+4 Pin 1.5M Extension Cable

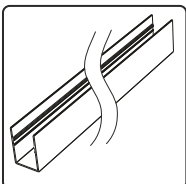
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 P20202-2.5 Push Lock Type 2+4 Pin 2.5M Extension Cable  
 P20202-3 Push Lock Type 2+4 Pin 3M Extension Cable  
 P20202-3.5 Push Lock Type 2+4 Pin 3.5M Extension Cable  
 P20202-4 Push Lock Type 2+4 Pin 4M Extension Cable  
 P20202-5 Push Lock Type 2+4 Pin 5M Extension Cable  
 P20202-7.5 Push Lock Type 2+4 Pin 7.5M Extension Cable  
 P20202-10 Push Lock Type 2+4 Pin 10M Extension Cable  
 P20202-15 Push Lock Type 2+4 Pin 15M Extension Cable  
 P20202-20 Push Lock Type 2+4 Pin 20M Extension Cable

**Power / Data Supplies**



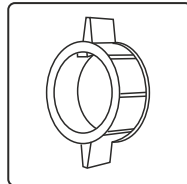
P08002 Power Pack 320 320W 2 Outputs Power Supply  
 P08003 Power Pack 500 500W 2 Outputs Power Supply  
 P08004 Power Pack 1000 1000W 8 Outputs Power Supply  
 P08013 Power Pack 2000 2000W 8 Outputs Power Supply

**Accessories**



P20050 300mm Locked Profile RAL 9005  
 P20051 600mm Locked Profile RAL 9005  
 P20052 900mm Locked Profile RAL 9005  
 P20053 1200mm Locked Profile RAL 9005  
 P20054 1500mm Locked Profile RAL 9005

*\*Available up to max. 3000mm length*



P20203 Push Lock Type 2+4 Pin Female Plug Cap



**HERA EĞLENCE VE MİMARİ AYDINLATMA  
SİSTEMLERİ İÇ VE DIŞ TİCARET A.Ş.**

Güllübağlar Mah. Kahramanlar Cad. No 3/1  
34906 Pendik / İSTANBUL / TÜRKİYE  
T: 0216 307 79 00 (pbx) F: 0216 307 79 02

[www.heraled.com](http://www.heraled.com) [info@heraled.com](mailto:info@heraled.com)

