

i-6

IP66 RGBW LED Wash

The precision long-throw luminaire



 **SGM**[®]



Go beyond

Accuracy and Precision - with Punch

The i-6 is designed for the tallest buildings and structures, adding precision and control to your installation. With its cutting-edge optical design, the i-6 goes beyond the performance of a typical washlight. The i-6 is an ultra narrow-beam wash delivering powerful colors and bright whites exactly where needed, reaching the furthest parts of your installation. Part of the proven POI package, the i-6 provides dynamic architectural light in an ultra reliable platform.

The i-6 is a precise IP-66 rated RGBW or White LED wash with a 2.3° or 3.2° x 3.4° beam angle able to deliver 6,300 lux / 585 fc* at 15 meters / 49.2 ft at only 241 watts. It is an environmentally-friendly solution enhanced with the reliable **DryTech™**, **ThermalDrive™**, and **TruColor™** SGM technologies that complements any lighting package.

Precision is crucial

Long-throw performance in a lowprofile form

Delivering 1,575 lux / 146 fc* at 30 m / 98.5 ft. distance, the i-6 is a single-head, compact LED luminaire that establishes a new benchmark for wall washing and accent lighting, thanks to its advanced optical design. With adjustable power consumption, and a weight of just 14.5 kg (31.9 lbs), the i-6 is a precise yet flexible tool for architectural lighting.

2.3° and 3.2° x 3.4° options

With a difference of just 1.9 degrees* between beam and field angle, the i-6 is the most accurate long-throw wash in the SGM portfolio. This narrow beam projection is the optimal solution to avoid light spill. Combined with the other native beam angles of the SGM i, P and Q Series, the i-6 completes the wash fixture package as a precise, special-purpose luminaire.

Extremely bright whites, and powerful colors

The i-6 includes 9 single-color white LEDs which deliver an impressive punch, even in the most challenging conditions. Its RGBW LED layout is based on SGM **TruColor™** technology and is optimized for delivering the brightest saturated colors, while enhancing the overall performance when using color temperature control. The i-6 incorporates the SGM color palette and is fully compatible with all SGM RGB-based washes. The i-6 also features the new SGM **VersaPath™**, 6 color mixing modes, and 12 dimming curves.

NextGen design platform with unique SGM technologies

Reliability is central to the design of the i-6 with an IP66 rating, integrated dehumidifier via the SGM **DryTech™** system, and a sealed IP67 base. Additionally, the i-6 POI includes next-gen **ThermalDrive™** management, a 5-year warranty, CX marine corrosion protection, and sensor monitoring over wireless RDM. Made in Denmark with premium components and extensive testing, the i-6 goes beyond high-quality manufacturing.



Precise beam control

Optional full and half anti-glare shields
Angle indicator on tilt locks

Cutting-edge LED technology

Choice of 2.3° or 3.2° x 3.4° beam angles
24 high-performance LEDs (5xR, 5xG, 5xB, 9xW)
886 lux / 82 fc @ 40 m (82 ft)

Superior mixing and dimming

Top-quality LED binning
TruColor™ for bright colors in 6 color modes
2,000 K – 10,000 K color temperature control

All-Weather IP66 design

Integrated dehumidifier with IP67 sealed base
Marine grade aluminum, Oxsilan pre-treated
CX / C5-M coated (ISO12944), IK06, UV resistant

Multiple connections

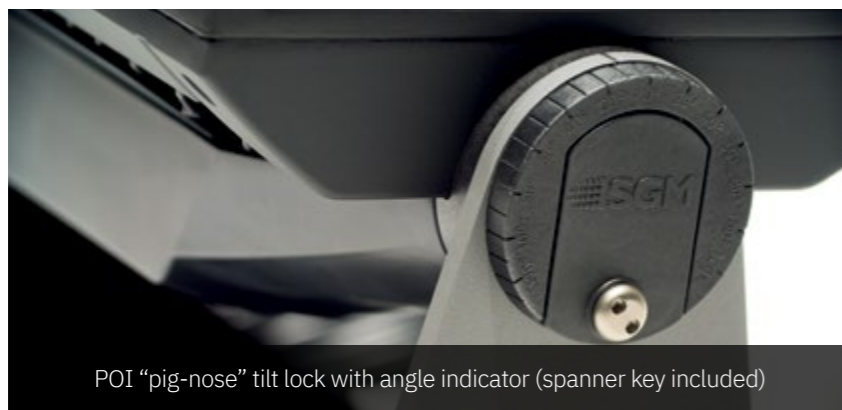
Power in and power thru via ruggedized cable glands
Wireless DMX and RDM
Remote sensor monitoring

All SGM POI fixtures feature:

- 5-year warranty
- All-Weather IP66 rating
- Patented dehumidification via the SGM DryTech™ system
- Hybrid cooling via the SGM ThermalDrive™ technology
- Calibrated RGBW color mixing via SGM TruColor™ algorithm
- Color Temperature Control (2,000 K – 10,000 K)
- CX marine protection (ISO 12944)
- Wireless and wired DMX and RDM control
- Remote sensor monitoring
- Minimum of IK06 rating (IK09 on demand)
- Optional full and half anti-glare shields
- Optional RAL-color customization
- Stainless steel M-10 mounting points
- Rugged cable glands with 5 m power and data cords
- Minimum of 2G vibration rating (ANSI C136.31 3G on demand)

Standard option available

Designed for rental use and permanent indoor installations, the i-6 STD is specifically developed for easy setup and quick adjustment. The standard SGM fixtures include IP6X rating, OLED display, chassis connectors, quarter-turn base locking points, and quick release tilt locks, while delivering 2-year warranty. Standard products can be customized with RAL colors and CX corrosion protection.



POI "pig-nose" tilt lock with angle indicator (spanner key included)



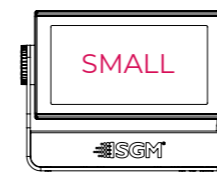
POI LED status indicator and wireless connection (via spanner key / Magnet)



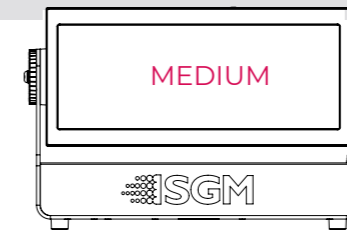
POI reinforced cable glands, ePTFE valve, and patented SGM dehumidifier

A lighting package for flexible design

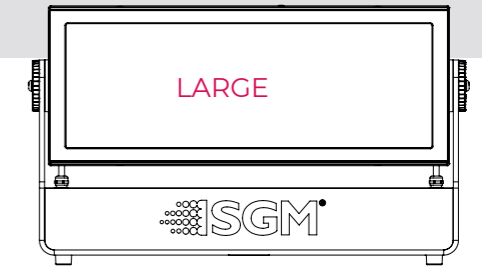
SGM offers a lighting package that incorporates powerful and efficient solutions. Our goal is to provide dynamic architectural lights and best in class support from design concept, through warranty, and beyond. The SGM iPQ lighting package consists of luminaires with unique LED engines designed to suit dynamic applications. It is this combination of narrow, medium, and wide-angle engines which delivers bright impactful results no matter how challenging the project.



311 x 223 x 105 mm
12.24 x 8.78 x 4.15 in
Approx. 6 kg (13 lbs)



502 x 320 x 166 mm
19.76 x 12.60 x 6.53 in
Approx. 15 kg (33.1 lbs)



684 x 403 x 159 mm
26.94 x 15.87 x 6.26 in
Approx. 20.9 kg (46.1 lbs)



Model	i-2	i-5	i-6	P-2	P-5	P-6	P-10	Q-2	Q-7	Q-8	Q-10
Native beam angles Beam angles w. filter ***	8° 17°, 29°, 40°, 9° x 36°	8° 17°, 29°, 40°, 9° x 36°	2.3° 3.2° x 3.4°	14°, 26°, 36°	14°, 26°, 35°	11°, 25°, 34° 18°, 47°, 12° x 60°	11°, 25°, 34° 18°, 47°, 12° x 60°	107°	110°	104°	102°
Native field angles Field angles w. filter ***	17° 31°, 61°, 78°, 22° x 70°	16° 31°, 61°, 78°, 22° x 70°	4.2° 6.2° x 6.5°	31°, 54°, 78°	30°, 55°, 77°	20°, 42°, 57° 34°, 86°, 26° x 89°	22°, 42°, 57° 34°, 86°, 26° x 89°	142°	143°	135°	143°
Form factor	Small	Medium	Medium	Small	Medium	Medium	Large	Small	Medium	Medium	Large
LED arrays	RGBW, Single color	RGBW, Single color	RGBW, W5700K	RGBW	wRGBW, W6500K Tunable White	RGBW	RGBW	RGBW, W5700K	RGBW, W5700K	RGBW	RGBW
Max. lumen all on raw, (RGBW) **	4,700 lm	17,892 lm	2,615 lm *	6,499 lm	16,769 lm	14,475 lm	28,101 lm	8,500 lm	23,165 lm	40,007 lm	45,013 lm
Max. lumen, all on calibrated (RGBW) **	5,019 lm	17,629 lm	2,400 lm *	7,110 lm	15,649 lm	14,559 lm	28,779 lm	8,958 lm	22,526 lm	39,270 lm	33,008 lm
Lux @ 5m **	5,818 lx	20,606 lx	56,705 lx *	2,539 lx	6,754 lx	11,241 lx	18,797 lx	141 lx	348 lx	657 lx	716 lx
Lux @ 10m **	1,454 lx	5,151 lx	14,176 lx *	635 lx	1,689 lx	2,810 lx	4,699 lx	35 lx	87 lx	164 lx	179 lx
Lux @ 50m **	58 lx	206 lx	567 lx *	25 lx	68 lx	112 lx	188 lx	1 lx	3 lx	7 lx	7 lx
Power consumption in all on raw (RGBW) **	105 W	439 W	241 W	201 W	430 W	585 W	1,195 W	238 W	465 W	550 W	1,043 W
Voltage range	100 - 277 VAC 50 / 60 Hz	208 - 240 VAC 50 / 60 Hz	115 - 277 VAC 50 / 60 Hz	100 - 277 VAC 50 / 60 Hz	208 - 240 VAC 50 / 60 Hz	115 - 277 VAC 50 / 60 Hz	100 - 277 VAC 50 / 60 Hz	100 - 277 VAC 50 / 60 Hz	208 - 240 VAC 50 / 60 Hz	115 - 277 VAC 50 / 60 Hz	100 - 277 VAC 50 / 60 Hz

* Preliminary photometric data

** Measurements comply with IES LM-79 (steady-state)

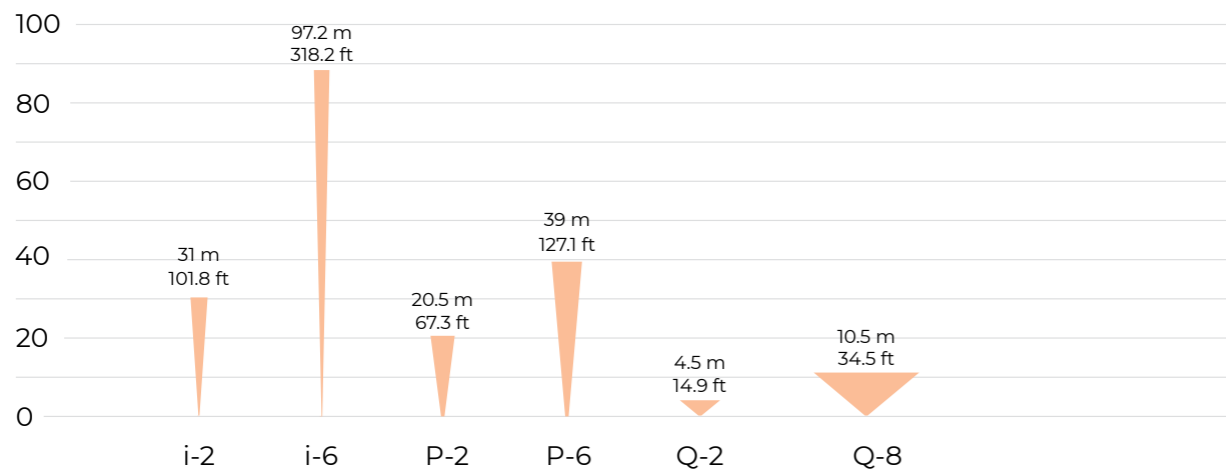
*** Custom filters available on demand, both for symmetrical and elliptical spread

Specific luminaires for specific needs

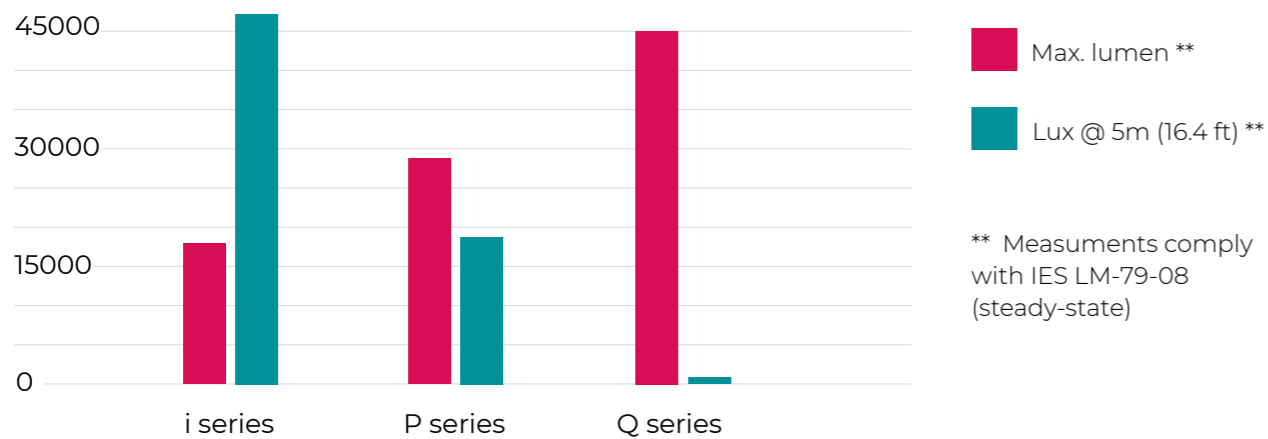
With the added narrow-beam precision of the i-6, the iPQ package is now the most efficient premium solution in outdoor architectural lighting, offering endless creative possibilities for your installation. You can throw controllable light over long distances with the strong punch of the i-Series, realize a huge range of attractive looks with the flexibility of the P-Series, and wash large areas with the smooth color blending of the Q-Series.

Specific lighting tools for an integrated design, powered by SGM technology: unified color palette, proven reliability, outstanding light output and advanced control.

Beam size and Reach at 150 lux / 13.9 fc

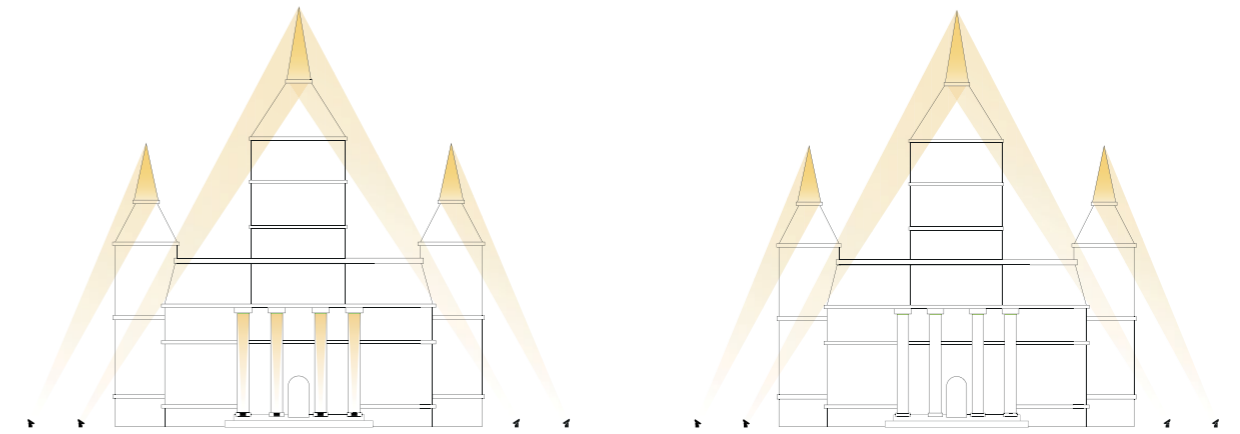


Luminance vs. Illuminance



iPQ | i-Series | Narrow

SGM narrow beam fixtures bring long-distance and intensity, delivering incredible saturation with maximum precision for your installation. Designed to deliver a powerful punch for distance and narrow beam grazes, the i-Series is the most precise lighting tool in the iPQ family.



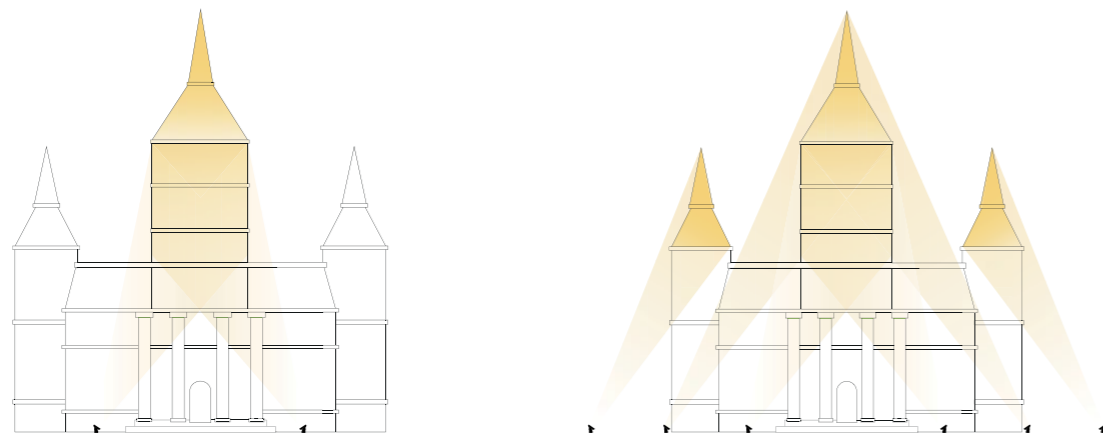
Emphasizing columns, reliefs and thin structures of pronounced length.

With accurate beam control the SGM i-Series can always “make the shot.” When lighting from the ground or adjacent buildings, the high output and tight focus brings impact to hard to reach locations.



iPQ | P-Series | Medium

SGM P-Series washes with a beam angle from 10° - 60° utilize multi-chip LED arrays under a single optic. With superior color mixing and high output, the P-Series is the versatile workhorse of the iPQ wash family.

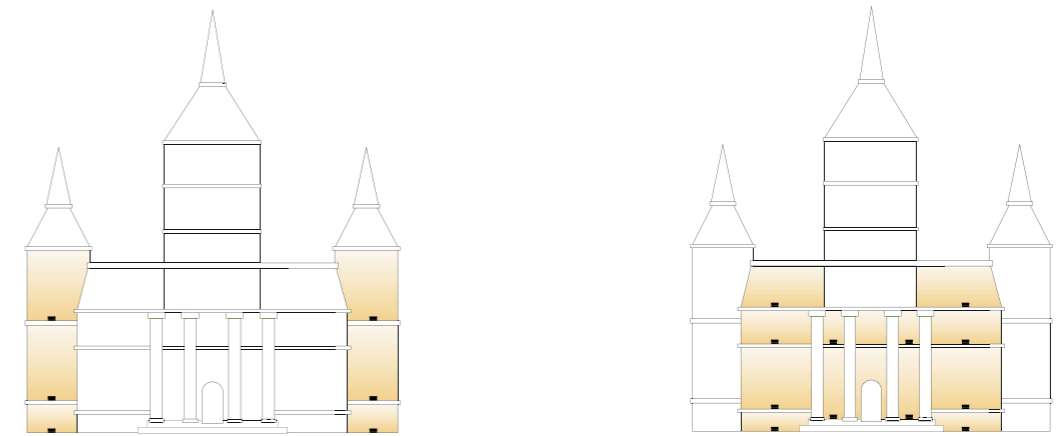


When flood illumination is needed, the medium spread versatility of the P-Series provides even and easily controllable beam spreads.

With 6 different native lenses, P-Series provides illumination for large architectural features with seamless, even color blending at many distances.

iPQ | Q-Series | Wide

Optimized for coverage, the Q-Series is the choice for short-throw lighting. Smooth and with a well-distributed spread, the Q-Series produce even coverage at close range, even when used in arrays. Offering uniform wall-washing with the highest output in the industry, the Q-Series can provide unmatched intensity.



When accents are needed but limited placement options exist, the Q-Series will generate high output and powerful coverage.

With its high output to size ratio, the Q-Series can be hidden within a structure at many levels to create even washes or beautiful gradients.



LIGHT SOURCE AND OPTICS	
Light source	5 Red, 5 Green, 5 Blue, and 9 cold White LEDs with individual lenses
LEDs expected lifetime	50,000 hours @ L70
Native lens beam angle / field angle	2.3° (50% beam angle) / 4.2° (10% field angle)
Filter-based variant	3.2° x 3.4° (50% beam angle) / 6.2° x 6.5° (10% field angle)

PHOTOMETRICS *	
Luminous flux	2,615 lumen
Illuminance at color blending distance	3,544 lux at 20 m (65.7 ft)
Color temperature range	2,000 K - 10,000 K
Efficacy	10 lm / W

TECHNICAL FEATURES	
Dehumidifier / ePTFE membrane	SGM DryTech™ on head
Dimming	16 bit, 12 DMX-controllable dimming curves
LED frequency adjustment	3.1 Khz - 30 Khz
Color features	2 color paths (standard / VersaPath™), filter emulation, 16 bit
Color modes	RGB CTC, RGBW CTC, RGB+W CTC, HSI, CMY, XY
IP Class / IK Rating / Corrosion class	Standard version IP66 / IK06 / No corrosion treatment
	POI version IP66 / IK06 / CX (ISO 12944)

PROGRAMMING AND CONTROL	
Wireless control	LumenRadio wireless DMX and RDM (CRMX™, W-DMX™ G2-G4S)
DMX channels	6 DMX modes (3, 4, 6, 8, 10, 22)
Standalone modes	SGM Quick Color, 24 programmable scenes (Only Std. version)
Control features	Wireless / Wired prioritization, CRMX™ bridge, Remote sensor monitoring

ELECTRICAL	
Maximum power consumption	250 W
AC power, Max / Nominal	100-305 v 50-60 Hz / 115-277 v 50-60 Hz
Power Supply Unit	Inbuilt IP67 Auto-ranging electronic switch-mode
Electrical protection	Overload protection with automatic recover
Power limiter adjustment	100 W via firmware

CONNECTIONS		
Data connections (USITT DMX512A)	Standard version	IP67 XLR 5-pin connectors
	POI version	5 meter cable for DMX In and DMX Thru
Setting, addressing, and monitoring	Standard version	RDM ANSI E1.20; OLED Graphical display on head
	POI version	RDM ANSI E1.20 only
Power connections	Standard version	IP66 power input connector and link-thru
	POI version	Power cable 5 meter with bare ends

THERMAL	
Thermal control	SGM ThermalDrive™ (active + passive cooling)
Max humidity	98%
Temperature range, operating	-40° to +50°C / -40° to +122°F
Temperature range, start-up	-20° to +50°C / -20° to +122°F
Temperature range, storage	-40° to +80°C / -40° to +176°F

PHYSICAL		
Tilt angle / tilt locks	Standard version	209° with scale indicator / adjustable wing knobs
	POI version	209° with scale indicator / pignose locks
Dimensions (L x W x H)	497 x 305 x 166 mm / 19.6 x 12 x 6.5 in	
Effective projected area	1.79 square feet	
Mounting points / Orientation	Standard version	3 x 2 ¼ turn locking points / Any orientation
	POI version	6 M-10 locking points / Any orientation
Total weight	14.5 kg / 31.9 lbs	
Color options	Black (RAL 9004), white (RAL 9010), custom RAL color	

OPTIONAL ACCESSORIES		
Filter options	Standard version	External, via easy-fit magnetic frames
	POI version	Internal, fitted before protective glass and after lenses
Accessory options	SGM 4-way and 8-way barndoors, SGM full and half anti-glare	
	Mounting plates	
Bracket options	SGM 1/4 turn omega brackets (camlock), SGM POI omega brackets (M-10)	

CERTIFICATES	
2014/35/EU: Low Voltage Directive	EN 60598-1, 60598-2-17, EN 62471, EN 60529
2014/30/EU: EMC Directive	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3, EN 55015
RoHS2 Directive	2011/65/EU

ORDERING INFORMATION

Fixtures

ORDERING NUMBER	STANDARD PRODUCTS	ORDERING NUMBER	POI PRODUCTS
80031700	i-6 RGBW, 2.3 deg, Std, BL	80251775	i-6 RGBW, 2.3 deg, POI, BL
80031701	i-6 RGBW, 2.3 deg, Std, WH	80251776	i-6 RGBW, 2.3 deg, POI, WH
80031702	i-6 RGBW, 2.3 deg, Std, CU	80251777	i-6 RGBW, 2.3 deg, POI, CU
80031720	i-6 RGBW, 3.2 x 3.4 deg, Std, BL	80251790	i-6 RGBW, 3.2 x 3.4 deg, POI, BL
80031721	i-6 RGBW, 3.2 x 3.4 deg, Std, WH	80251791	i-6 RGBW, 3.2 x 3.4 deg, POI, WH
80031722	i-6 RGBW, 3.2 x 3.4 deg, Std, CU	80251792	i-6 RGBW, 3.2 x 3.4 deg, POI, CU

Accessories

ORDERING NUMBER	PRODUCT
83061176	Full anti-glare shield, medium, BL
83061177	Full anti-glare shield, medium, WH
83061178	Half anti-glare shield, medium, BL
83061179	Half anti-glare shield, medium, WH

Brackets

ORDERING NUMBER	PRODUCT
83060623	Omega bracket POI, BL
83060624	Omega bracket POI, WH
83060625	Omega bracket POI, CU
83060602	Omega bracket with ¼ turn bolts, BL
83061206	Omega bracket with ¼ turn bolts, WH
83060639	28 mm spigot adapter for omega bracket
83060631	Mounting plate, 90° - medium, POI, P-6/Q-8/i-6
83060632	Mounting plate, flat - medium, POI, P-6/Q-8/i-6

Flight cases

ORDERING NUMBER	PRODUCT
82051509	Flight case for 4 pcs of P-6/Q-8/i-6 incl. accessories

Converters / RDM administrators

ORDERING NUMBER	PRODUCT
80070217	A-4 Art-Net to DMX converter

Cables

ORDERING NUMBER	PRODUCT
07860275	Power cable with IP connector (for standard version)
83062011	SGM USB uploader cable
83062067	SGM USB uploader cable, POI

Service tools

ORDERING NUMBER	PRODUCT
83061136	Vacuum Test Kit

WHAT IS IN THE BOX

What is in the box

Standard*

- i-6 fixture
- 1 IP66 power cable
- 2 Omega brackets
- Printed leaflet with safety instructions

Permanent outdoor installation (POI) *

- i-6 POI fixture
- 6 M-10 screws
- Spanner key / Magnet for POI
- Printed leaflet with safety instructions

Important notes

Please note the packaging for the fixtures does not include any other accessories such as barndoors or filters. All these items are sold separately.

Developed, manufactured and tested in Denmark

- Premium user-centered design
- Flexible manufacturing process
- Short reaction time; faster deliveries
- Integrated support (R&D / production / after-sales)



VersaPath™
Designer selectable color path
RGB mix over black body curve



TruColor+™
High Color Rendering
Enhanced Color Engine



ThermalDrive™
Advanced Temperature Control
Hybrid Cooling



DryTech™
Integrated Patented Dehumidification
Active Moisture Removal



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