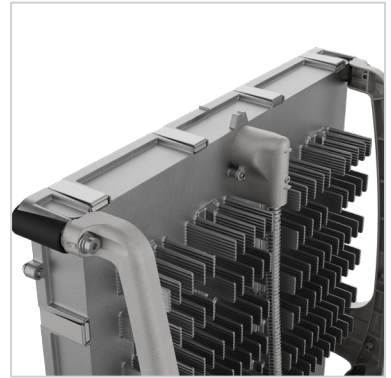


# RAPTOR 4



**Optimal efficiency, flexibility, superior photometry for sports LED floodlighting, while excelling as the best in class for a circular economy**

Raptor 4, an Australian-designed and engineered high-performance floodlight, is tailored to deliver optimal lighting precisely where, when, and how it's needed in both indoor and outdoor sports venues.

RAPTOR 4 is dark sky friendly incorporating the flat glass concept for complete control of glare and obtrusive light and colour temperature of 4000K resulting in reduction in blue light.

Its adaptable mounting system, featuring a robust trunnion arm with multiple mounting slots and lateral slide adjustment makes RAPTOR 4 highly versatile for retrofit and refurbishments. The trunnion is compatible with both over and under slung mounting arrangements.



SPORTS



CAR PARKS



LARGE AREAS



INDUSTRIAL AREA LIGHTING



TRANSIT HUBS



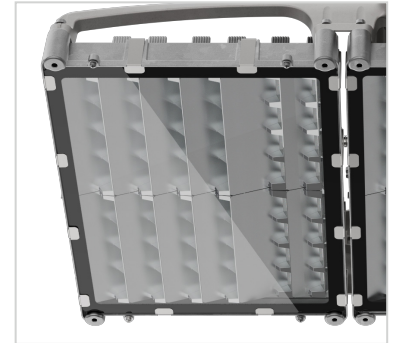
AIRPORT APRONS

## MAIN APPLICATIONS

- Sports
- Car parks
- Large areas
- Industrial
- Airport aprons
- Transit hubs

## KEY ADVANTAGES

- Designed in Australia for Australian and New Zealand conditions
- High lumen efficacy over 150lms/w
- Precision reflector systems, designed to control spill light
- Asymmetric distribution, with four beam options
- Available in CCT 4000K, 5700K optional
- CRI 70
- Two driver models available:
  - Electronic DALI 2 IP66, can be installed remotely up to 300m or located on trunnion arm with optional mounting bracket
  - Hybrid Driver installed remotely up to 4.8KM, 240V and 415V. Suitable for ambient temperatures up to 65°C
- Compatible with Schröder ITERRA Sports Control System, when used with the Electronic DALI 2 Driver
- Durable LM6 grade die-cast aluminium body
- Unpainted housing with circular design at the forefront:
  - Modules can be replaced
  - Product can be disassembled at end of life with high resource recovery
- Optimal reliability with 5 year warranty
- All exposed cabling has bird proof conduit
- Supplied with bird spikes



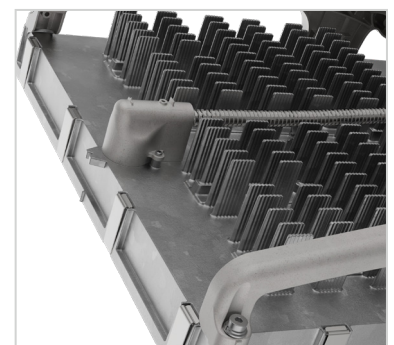
Precision optical design, controlling spill light



Colour coded caps to identify optics from the ground - A0 = White, A1 = Black, A2 = Red, A3 = Green



Adjustable lateral slot for mounting and aiming flexibility, particularly for retrofits



Die cast aluminium heat sink for excellent thermal management

## GENERAL INFORMATION

Recommended installation height	15m to 40m   50' to 140'
Driver included	No
RCM Mark	Yes
ROHS compliant	Yes
Testing standard	AS/NZS 60598.1:2017

## HOUSING AND FINISH

Housing	Die-cast LM6 aluminium frame and heat sink
Optic	High temperature vacuum metalised reflector
Protector	Tempered glass
Housing finish	Un-painted LM6 grade aluminium
Tightness level	IP 66
Impact resistance	IK 06

## PERFORMANCE

Lumen efficacy	150lms/w
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## ELECTRICAL INFORMATION

Electrical class	Class I
Nominal voltage	240V/415V – 50Hz/60Hz
Power factor (at full load)	>0.98 - Electronic DALI 2 Driver >0.95 - Hybrid Driver
System wattage	2 module 1200W
Surge protection (kV)	10kV
Electromagnetic compatibility (EMC)	AS/NZS CISPR15
Control protocol(s)	DALI-2 for electronic, 1-step/4-step and TRI Control (DALI/0-10V/Simple Switch) for Hybrid Gear
Associated control system(s)	Schröder ITERRA
Sensor(s)	Devices & sensors for smart city applications

## OPTICAL INFORMATION

LED colour temperature	4000K. 5700K optional.
Colour rendering index (CRI)	> 70
Asymmetrical distributions	A0 Extra Narrow, A1 Narrow, A2 Medium, A4 Wide

## OPERATING CONDITIONS

Temperature range from operation (Ta)	-20°C to + 40°C
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## LIFETIME OF THE LEDS @ TA 40°C

All configurations	102,000h - L90
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## DIMENSIONS AND MOUNTING

L x W x H (mm) 748.6 x 602 x 181.7 (not including trunnion)

Weight (kg) 25.5

Aerodynamic resistance 0.115 (at tilt of 0°)

Windage (m<sup>2</sup>) 0.17 (at tilt of 14°)

Raptor with A1 hood:

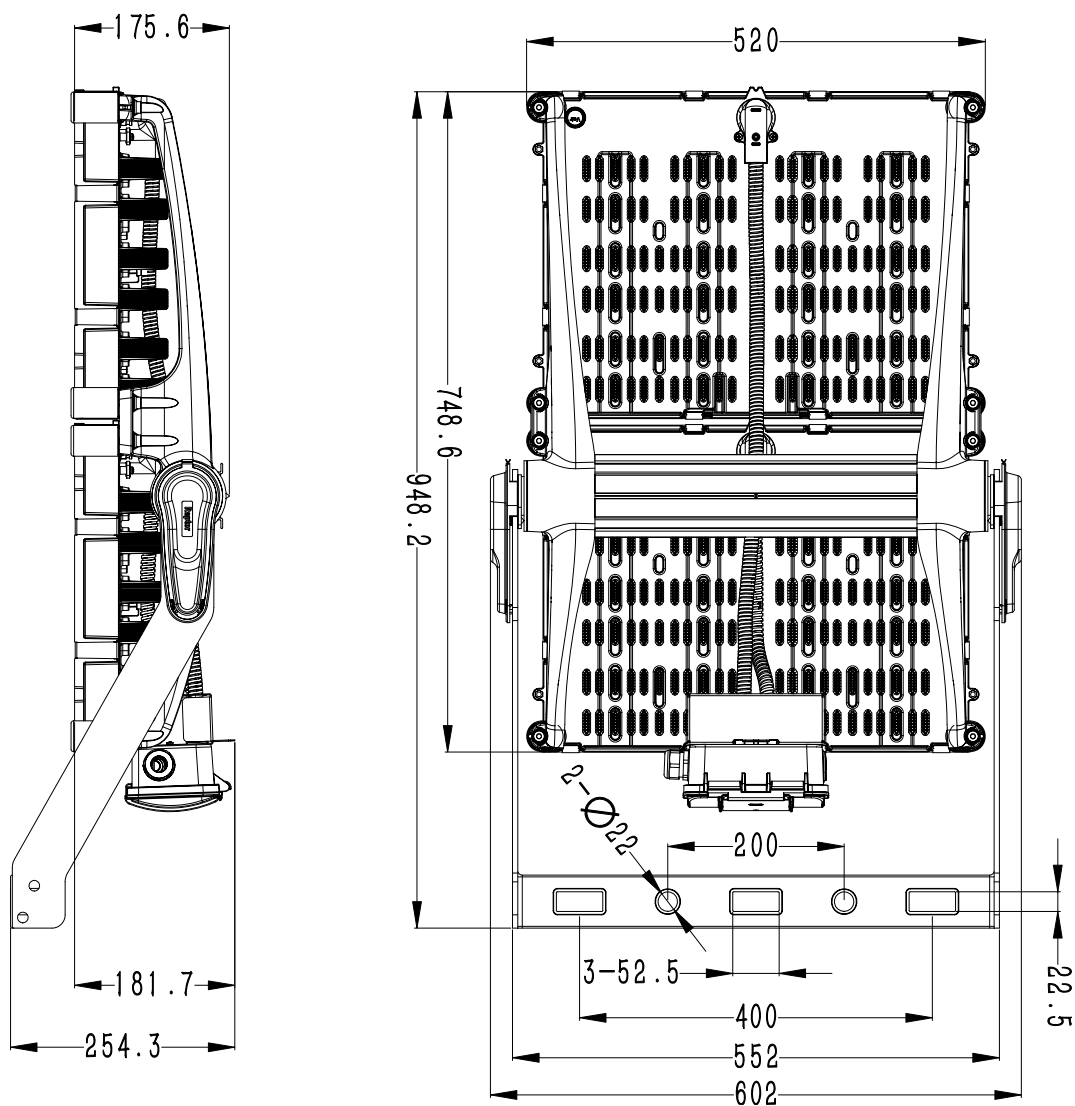
0° = 0.1664

5° = 0.181

10° = 0.224

15° = 0.266

Mounting possibilities Galvanised trunnion arm for under and over slinging





Product Code	Name	Beam Dist.	Colour Temp	System Power (W)
SR2A0G4-740	RAPTOR 4 1200W A0 OPTIC CRI70 CCT4000K NO GEAR	Asymmetric A0 Extra Narrow	4000	1200
SR2A1G4-740	RAPTOR 4 1200W A1 OPTIC CRI70 CCT4000K NO GEAR	Asymmetric A1 Narrow	4000	1200
SR2A2G4-740	RAPTOR 4 1200W A2 OPTIC CRI70 CCT4000K NO GEAR	Asymmetric A2 Medium	4000	1200
SR2A3G4-740	RAPTOR 4 1200W A3 OPTIC CRI70 CCT4000K NO GEAR	Asymmetric A3 Wide	4000	1200

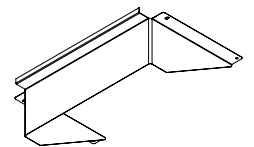
**ACCESSORIES - RAPTOR 4 Hood Accessories**

SR2APNHOODG4	RAPTOR 4 1200W A0/A1/A2/A3 APRON HOOD KIT
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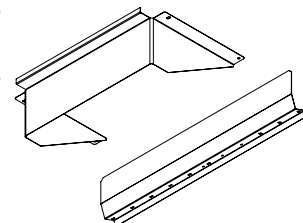
**ACCESSORIES - BACK SHIELD**

SRBACKSHIELDG4	RAPTOR 4 1200W/600W BACK SHIELD KIT	L 515 x W 415 x H 151mm	1.15kg
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**ACCESSORIES - SIDE AND BACK SHIELD KIT**

SR2SIDESHIELDG4	RAPTOR 4 1200W SIDE AND BACK SHIELD KIT	L 800 x W 415 x H 155mm	2.4kg
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**ACCESSORIES - DRIVER MOUNTING BRACKET**

SRDRVBKTG4	RAPTOR 4 DRIVER MOUNTING BRACKET SET 600W/1200WKIT
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## ELECTRONIC CONTROL GEAR

- Nominal input voltage: 220-415Vac
- 3 output channels
- Output current 1400 mA (per output channel)
- 6C+E cable between driver and luminaire
- DALI-2 and D4i Certified
- Output voltage range 176 – 500 VDC (per output channel)
- Max remote distance 300 meters
- Surge level 10 kV for both common mode and differential mode
- Adaptable thermal protection for LED Modules
- Lifetime: 89,000 hours (220Vac input, 80% load, 70°C case temperature)
- Short circuit, over voltage and over power protections
- IP66 enclosure



## EXTREME HYBRID CONTROL GEAR

- Available in 1Step/4Step and TRI Control DALI/0-10V/ Simple Switch
- 240V and 415V options
- Simple 2 wire connection connection between driver and luminaire (Luminaire must be earthed)
- Requires a two core cable + Earth between the driver and luminaire, providing an ideal solution for HID Floodlight retrofits. Installation of earthing is required as per Australian Standards
- For new installations, the distance between the control gear and the floodlight has been greatly improved. This offers benefits for both installation and maintenance
- Maximum distance between gear and floodlight:
  - 1.5mm<sup>2</sup> cable = 1000m
  - 2.5mm<sup>2</sup> cable = 2000m
  - 4.0mm<sup>2</sup> cable = 3200m
  - 6.0mm<sup>2</sup> cable = 4800m
- High immunity to surges, low inrush /leakage current
- Proven to offer protection in extreme environments with up to 65°C ambient temperature, for IP20 model. Offering high immunity to surges and low inrush/leakage current
- Low leakage current <0.2mA
- Power factor >0.95 Typical

**Note:** Refer to individual control gear data sheets for technical information