



REDWash 3·192™

REDMix 3·192™

ROBE®

REDWash 3•192™

is the first in a series of powerful new Robe moving head wash lights based on **RED** (Robe Emitted Diodes) **Technology**. The fixture provides a rectangular light field with a narrow beam spread, offering a unique, fresh approach to concert touring, television and event lighting.

- 192 High Power RGBW Luxeon Rebel LEDs
- Exceptionally even colour distribution with uniform shadow looks (i.e. no RGB Shadows)
- Extremely high intensity levels of saturated colours
- Rectangular light output is divided up into 4 sections for producing rainbow, colour and other effects
- Spectacular strobe effects
- Manual Beam Spread Control with exchangeable 'Egg Crate' lens modules
- DMX, RDM and ArtNet (REDWash 3•192 only) Communication
- RNS - Robe Navigation System (REDWash 3•192 only)



REDMix 3•192™

Based on the success of the REDWash 3•192, we have created a static version called REDMix 3•192. This compact fixture provides the same powerful light output, colour uniformity and unique features as the REDWash 3•192.



Intense Saturated Colours combined with extreme Luminous Flux Levels

REDWash 3•192 and REDMix 3•192 are equipped with 192 RGBW High Power Luxeon Rebel LEDs, arranged in a rectangular format as close as possible to each other for maximum density. The fixtures provide stunning saturated colour tones with extreme intensity levels - doubling the luminous flux levels of other wash lights using 700W discharge lamp sources (red, green and blue colours).





Concept of Linearity

REDWash 3•192 and REDMix 3•192 have a linear optical layout, which is ideal for flooding large areas with intense colour tones and creating 'eye-candy' for audiences. It's 4-section-concept allows the creation of a spectacular rainbow spectrum effect and other imaginative chases and colour effects.

Concept of Shadow Uniformity

The RED series LEDs are tightly populated for optimised homogeneous colour distribution and uniform shadow behaviour – averting the 'RGB shadows' that are often common to other LED based lighting fixtures.





Extreme Strobe Lighting Effects

REDWash 3•192 and REDMix 3•192 can be used as a powerful strobe – consuming just 700W of power. Strobe Effects are stunningly crisp and detailed and can be used in conjunction with any colour tones or mixes.

RDM and Remote Control and Setup

REDWash 3•192 and REDMix 3•192 communicate via Robe´s Universal Interface. USB interface with a computer running Robe RDMNet Software enabling remote Menu configurations and fixture setup.

RDM compatible equipment is initially rigged or installed without any pre-configurations, and all the necessary settings are remotely administered using standard DMX cables and existing DMX links. Service technicians will benefit from the Active Failure reporting of RDM compatible equipment, like the REDWash 3•192 and REDMix 3•192.

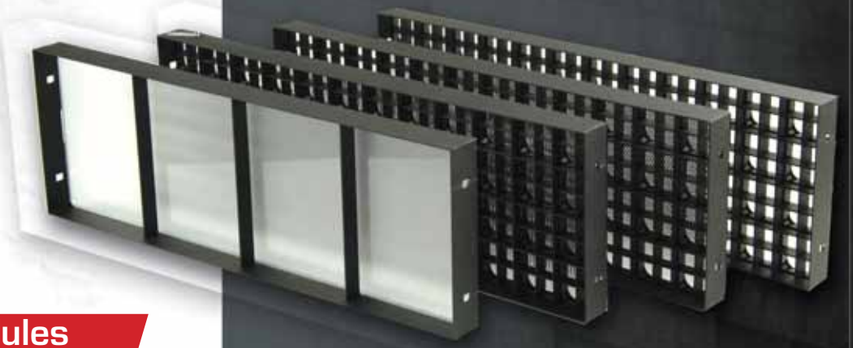
RNS Display – Robe Navigation System

REDWash 3•192 features an intuitive jog-wheel controlled menu system. This and the fixture's large text and full LCD graphical display offer fast and intuitive navigation through the menu structure.

Silent operation, fast and precise Pan/Tilt movements

REDWash 3•192 is exceptionaly silent in operation, with a small air stream provided for expelling hot air. The Pan and Tilt functions are fast and precise – as with all ROBE lighting fixtures.





Robe 'Egg Crate' Modules



REDWash 3•192 and **REDMix 3•192** are supplied with a standard 12-degree lens configuration and 25-degree 'Egg Crate' lens module, 45 and 45 x 15 degree 'Egg Crate' lens modules are also available as optional accessories. The Egg Crate modules are extremely quick and easy to fit, allowing lenses to be swapped around for maximum flexibility.

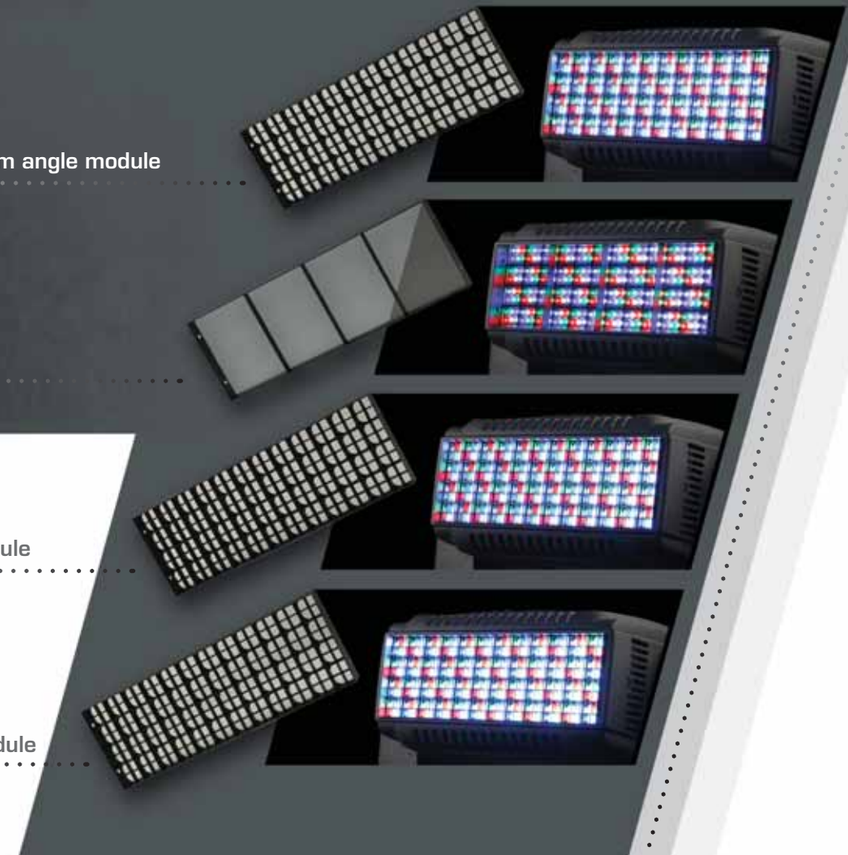
Standard 12˚beam angle

Standard 25˚ beam angle module

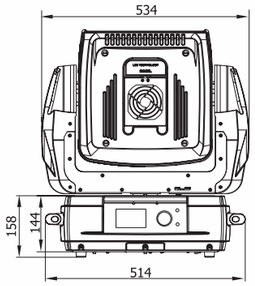
Standard glass holder
For additional frost foils

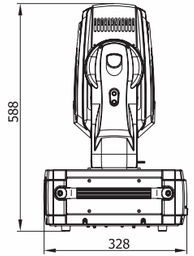
Optional 45˚ beam angle module
Accessory on request

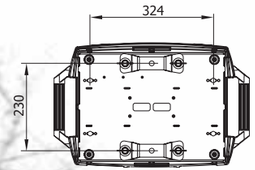
Optional 45˚x15˚ beam angle module
Accessory on request











REDWash 3•192 Technical Specification

Electrical Specification
- Power supply: Electronic auto-ranging
- Input voltage range: 100 - 250V AC, 50/60 Hz
- Power consumption: 750 W (Full power mode)
  450 W (Eco mode)

Environmental Specification
- Maximum ambient temperature: 40°C (104°F)
- Maximum housing temperature: 70°C (158°F)

Optic & Effect Specification
- Light source: 192 High Power RGBW Luxeon Rebel LEDs
- Optical system: 12° or 25° lens-array standard, 45° or 45° x 15° lens-array optional
- Led Life Expectancy: minimum 60.000 hours
- Typical Lumen Maintenance: 70% @ 60.000 hours
- RGBW colour mixing
- Preset colour macros and rainbow effect
- Adjustable strobe sequences
- Fine dimmer
- White colour balance adjusting

Connection
- DMX data in/out: Locking 3-pin and 5-pin XLR
- AC power input: 1.5 m power cord without plug
- Ethernet: RJ45 (neutric Ethercon)

Control and Programming
- Control panel: Graphic LCD display and ROBE navigation system
- Control: USITT DMX 512, ArtNet, RDM support
- DMX protocol modes: 5
- DMX channels: 8, 16, 24 or 28
- 3-editable programs, each up to 99 steps
- Control options: DMX, Auto-trigger, Audio-trigger
- Operations modes: DMX, Stand-alone
- Manual control of all effects via control panel

Pan/Tilt
- Pan movement range: 530°
- Tilt movement range: 280°
- 16 bit movement resolution
- Controllable speed of Pan/Tilt movement
- Automatic Pan/Tilt position correction
- Built-in Pan/Tilt macros

Rigging
- Mounting points: 2 pairs of ¼-turn locks
- 2x Omega bracket with ¼-turn quick locks
- Safety chain/cord attachment point

Optional Accessories
- 45° lens module
- 45° x 15° lens module

Mechanical Specification
- Height: 588 mm (23.2")
- Width: 514 mm (20.2")
- Depth: 328 mm (12.9")
- Weight: 22 kg (48.5 lbs)

4 Patents pending

REDMix 3•192 Technical Specification

Electrical Specification
- Power supply: Electronic auto-ranging
- Input voltge arange: 100-250V AC, 50/60 Hz
- Power consumption: 700 W (Full power mode)
  400 W (Eco mode)

Environmental Specification
- Maximum ambient temperature: 40°C (104°F)
- Maximum housing temperature: 70°C (158°F)

Optic & Effect Specification
- Light source: 192 Luxeon Rebel LEDs (RGBW)
- Optical system: 12° without lens-array, 25° lens-array (standard); 45° and 45° x 15° lens-array (optional)
- Possibility of fitting additional frost film filters
- Led Life Expectancy: minimum 60.000 hours (Eco mode)
- Typical Lumen Maintenance: 70% @ 60.000 hours (Eco mode)
- RGBW colour mixing
- Built-in colour macros
- Adjustable strobe sequences
- Fine dimmer
- White colour balance adjusting
- Control panel: 4-digit LED display with 4 buttons
- Control: USITT DMX 512 (RDM support)
- DMX protocol modes: 5 (4, 8, 19 or 20 control channels)
- Control options: DMX, Auto-trigger
- Operations modes: DMX, Stand-alone, Master/Slave
- Manual control of all effects via control panel

Strobe
- Strobe effect with variable speed (max. 20 flashes per sec.)
- Pre-programmed random strobe pulse-effects

Dimmer
- Smooth 16-bit dimming from 0 - 100 %

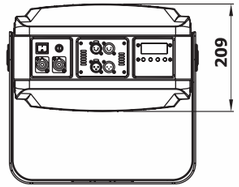
Connections
- DMX data in/out: Locking 3-pin and 5-pin XLR
- AC power input/output: 2 x Neutrik PowerCon

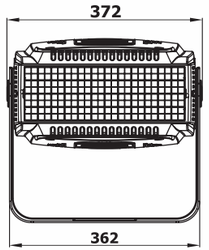
Rigging
- Adjustable mounting bracket

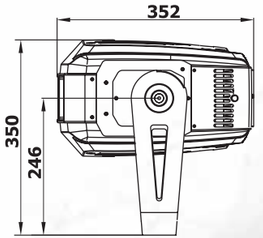
Mechanical Specifications
- Height: 350 mm (13.8")
- Width: 372 mm (14.7")
- Depth: 352 mm (13.9")
- Weight: 10 kg (22.1 lbs)

Optional Accessories
- 45° lens module
- 45° x 15° lens module

2 Patents pending

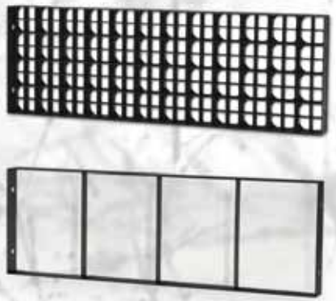




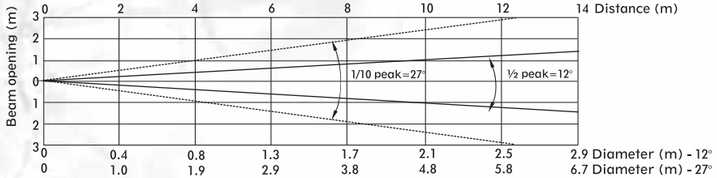




Photometric Diagrams 12° beam angle

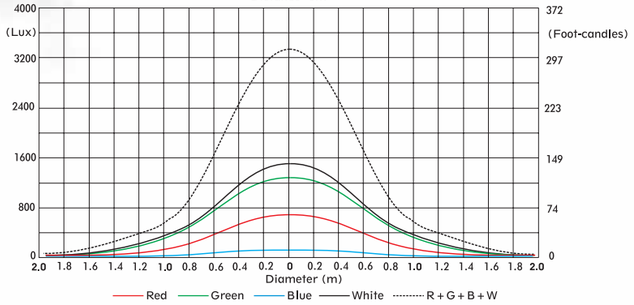


12° Beam Angle without Lens - Array



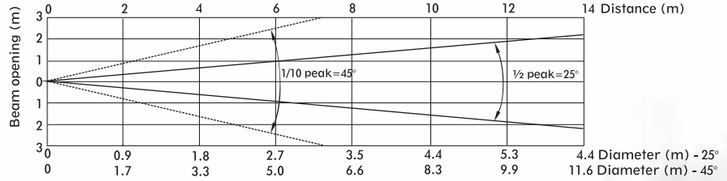
Distance (m)	2	4	5	6	8	10	12	14	
Red	4500/418	1125/105	720/67	500/47	281/26	180/17	125/12	92/9	Intensity (center) Lux/Footcandles
Green	8129/764	2055/191	1315/122	913/85	514/48	329/31	228/21	167/16	
Blue	656/61	164/15	105/10	73/7	41/4	26/2	18/1.7	13/1.2	
White	9375/871	2344/218	1500/139	1042/97	586/54	375/35	260/24	191/18	
R + G + B + W	20813/1934	5203/483	3330/309	2313/215	1301/121	833/77	578/54	425/40	

Illuminance distribution



Photometric Diagrams 25° beam angle

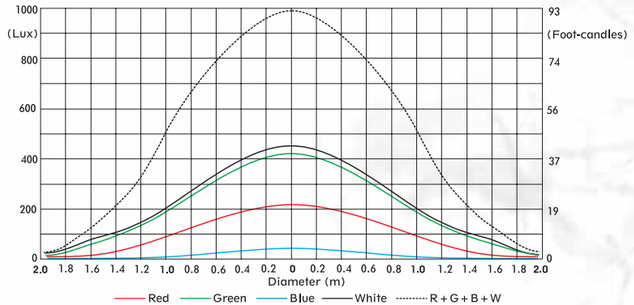
25° Lens - Array



Distance (m)	2	4	5	6	8	10	12	14	
Red	1350/125	338/31	216/20	150/14	84/8	54/5	38/3.5	28/3	Intensity (center) Lux/Footcandles
Green	2794/260	698/65	447/42	310/29	175/16	112/10	78/7	57/5	
Blue	194/18	48/5	31/3	22/2	12/1	8/0.7	5/0.5	4/0.4	
White	2813/261	703/65	450/42	313/29	176/16	113/11	78/7	57/5	
R + G + B + W	6244/580	1561/145	999/93	694/65	390/36	250/23	173/16	127/12	



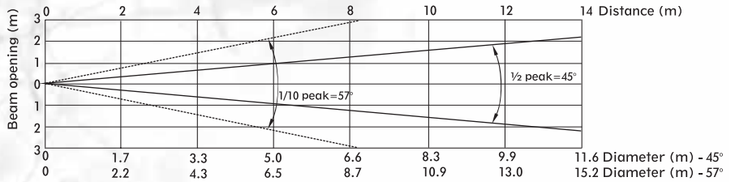
Illuminance distribution



Photometric Diagrams 45˚ beam angle



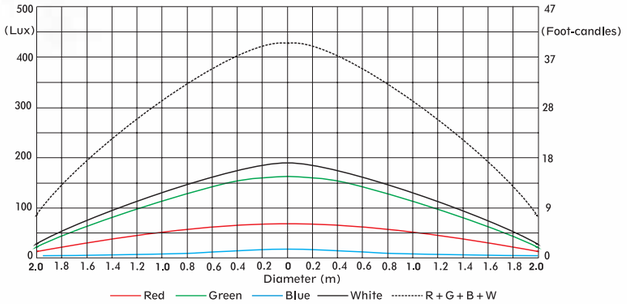
45˚ Lens - Array



Distance (m)	2	4	5	6	8	10	12	14	
Red	588/55	147/14	94/9	65/6	37/3	24/2	16/1.5	12/1	Intensity (center) Lux/Footcandles
Green	1069/99	267/25	171/16	119/11	67/6	43/4	30/3	22/2	
Blue	88/8	22/2	14/1.3	10/1	6/0.5	3.5/0.3	2.4/0.2	1.8/0.2	
White	1219/113	305/28	195/18	135/13	76/7	49/5	34/3	25/2.3	
R + G + B + W	2700/251	675/63	432/40	300/28	169/16	108/10	75/7	55/5	

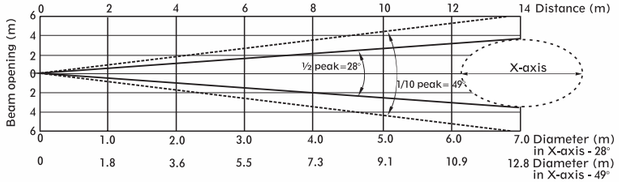
Illuminance distribution

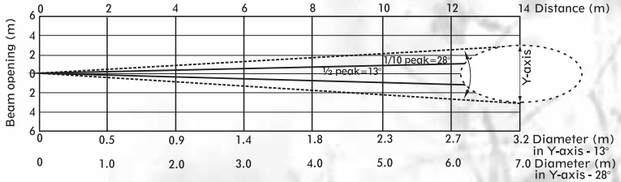
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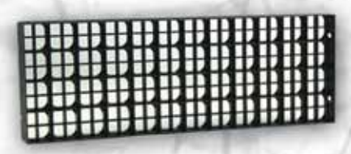
Photometric Diagrams 45˚x 15˚ beam angle

45˚x15˚ Lens - Array



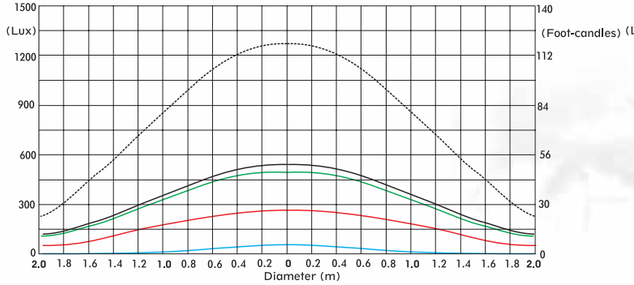


Distance (m)	2	4	5	6	8	10	12	14	
Red	1713/159	428/40	274/26	190/18	107/10	69/6	48/4.4	35/3	Intensity (center) Lux/Footcandles
Green	3287/305	822/76	526/49	365/34	206/19	132/12	91/9	67/6	
Blue	244/23	61/6	39/4	27/2.5	15/1.4	10/1	7/0.6	5/0.5	
White	3469/322	867/81	555/52	385/36	217/20	139/13	96/9	71/7	
R + G + B + W	7906/735	1977/184	1265/118	879/82	494/46	316/30	220/20	161/15	



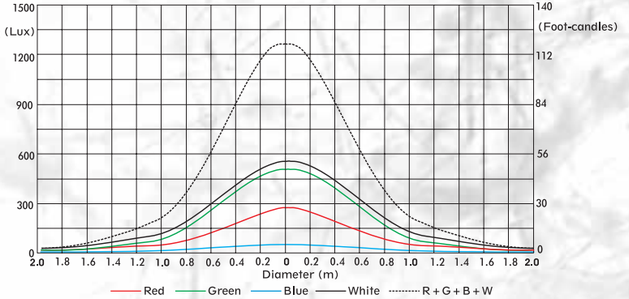
Illuminance distribution X- axis

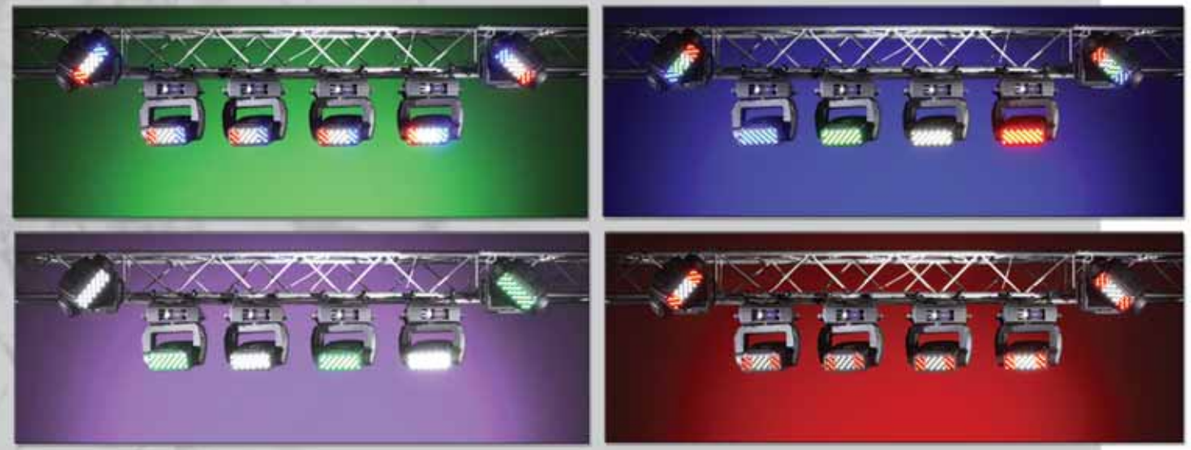
Distance=5m



Illuminance distribution Y-axis

Distance=5m





Pussycat Dolls "Doll Domination", World Tour 2009



Miss World 2008, Johannesburg, South Africa



Miss Italia 2008, Parma, Italy



Dick Clark's New Year's Rockin' Eve, California, USA



All colours are RED ...

Robe Emitted Diodes



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