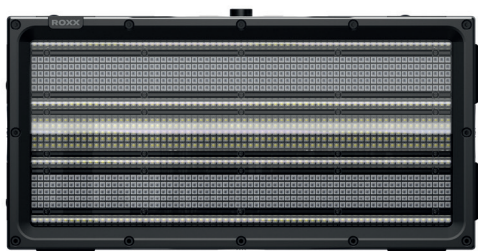


## CLUSTER S2



- High-power, pixel-mappable hybrid strobe / washlight
- Center Strobe mimics traditional look from Xenon-bulb
- Full color mixing & tuneable white with high CRI
- Four extra single Strobe lines create unique effects and give an extra boost on High-Power Strobe applications
- Large number of build-in patterns
- IP65 rated for Indoor & Outdoor use
- Integrated C-Lok system for toolfree and seamless CLUSTER setups

Following the success of the CLUSTER LED blinders, ROXX has now further expanded the CLUSTER family with the introduction of the S2.

The S2 is an advanced pixel mappable strobe and washlight that combines two complementary effects in one unit, designed for extremely powerful and versatile applications.

Thanks to the advanced and tool-free cluster mechanism and the equal distance of the single LED lines to each other, continuous effects can be displayed over several devices. Thus, the devices merge both in the horizontal and vertical alignment to a large whole.

CLUSTER S2 features a large number of build-in patterns, giving users a fast and simple way of creating stunning effects whenever a media server is not available, or the installation requires a speedy solution. ROXX also offers a wide range of magnetic, easy-to-apply accessory filters. The smoked clear filter is especially useful in TV applications, as it allows the devices to visually disappear in the stage design when switched off. The two elliptical filters shape the light beam either vertical or horizontal with a frost effect, giving the user even more effect possibilities.



### Accessories



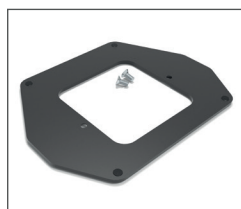
Omega Bracket



Various filters



FX Distance Frame



Floor Extension



Rigging Bracket



Yoke 4.1  
(Included)



Yoke 4.3  
(Optional)



Yoke 2.2  
(Optional)



## Technical Data

| Photometrics                                                       |                                                                                                |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| LED expected lifetime                                              | 50.000 hours                                                                                   |
| Lightsource                                                        | 612x CW LED's (7000K), 680x RGB LED's                                                          |
| Type of optical system                                             | native, elliptical lens                                                                        |
| LED PWM Frequency                                                  | selectable 800Hz, 1.200Hz, 2.000Hz, 3.600Hz, 12kHz, 25kHz                                      |
| Beam angles @ Full (50%)                                           | 66°                                                                                            |
| Maximum Field angles @ Full (10%)                                  | 108°                                                                                           |
| Color temperature range                                            | 2000-10.000K                                                                                   |
| CRI/Ra @ Full                                                      | 88                                                                                             |
| Efficacy @ Full (max)                                              | 48,07 lm/W                                                                                     |
| Luminous flux @ Full                                               | 57.750 lm                                                                                      |
| Luminous flux @ Center Strobe                                      | 20.260lm                                                                                       |
| Luminous flux @ 4x Single Strobes                                  | 14.480lm                                                                                       |
| Luminous flux @ 2x RGP Panels                                      | 7.920lm                                                                                        |
| illuminance Lux @ 3m / 3,3ft (@ Full)                              | 4460lx / 414fcd                                                                                |
| illuminance Lux @ 3m / 3,3ft (@ Center Strobe )                    | 3500lx / 325fcd                                                                                |
| illuminance Lux @ 3m / 3,3ft (@ 4x Single Strobes)                 | 2560lx / 238fcd                                                                                |
| illuminance Lux @ 3m / 3,3ft (@ Center Strobe + 4x Single Strobes) | 4045lx / 376fcd                                                                                |
| illuminance Lux @ 3m / 3,3ft (@ 2x RGB Panels)                     | 1075lx / 100fcd                                                                                |
| Thermal Characteristics                                            |                                                                                                |
| Cooling                                                            | Active, Forced Air, Temperature-regulated                                                      |
| Humidity (max.)                                                    | 95%                                                                                            |
| Temperature range, Operating                                       | -40°C to 45°C                                                                                  |
| Temperature range, Start-Up                                        | -20° to 45°C                                                                                   |
| Temperature range, Storage                                         | -40°C to 80°C                                                                                  |
| Thermal Protection                                                 | Automatic overtemperature protection                                                           |
| Electrical Data                                                    |                                                                                                |
| AC Power, max                                                      | 90 – 285V 50/60Hz                                                                              |
| AC Power, nominal                                                  | 100 – 240V 50/60Hz                                                                             |
| Electrical protection                                              | Overload protection with automatic recover                                                     |
| Max power consumption                                              | 1250W                                                                                          |
| Constant power consumption                                         | 320W                                                                                           |
| Power Max. Out                                                     | 6,24A @ 230V / 6,14A @ 120V                                                                    |
| Power Linking @ Max Power Consumption (Boost Mode)                 | 1 unit @ 230V / 0 unit @ 120V                                                                  |
| Power Linking @ Constant Power Consumption (Illumination Mode)     | 7 units @ 230V / 3 units @ 120V                                                                |
| Power Factor                                                       | 0.998 PF (230V) / 0.997 PF (120V)                                                              |
| Power Supply Unit                                                  | Inbuilt auto-ranging electronic switch-mode                                                    |
| Operator & Controller                                              |                                                                                                |
| DMX channels                                                       | 15CH Simple, 32CH Easy, 75CH Standard, 209CH Pure, 156 Full Access, 253CH Full Access Extended |
| DMX modes                                                          | 6                                                                                              |
| Protocol                                                           | USITT DMX512A<br>RDM ANSI E1.20<br>Art-Net<br>sACN                                             |

| Operator & Controller                        |                                                                                                                                                                                   |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Setting and addressing                       | OLED graphical display / 4 controls<br>RDM ANSI E1.20                                                                                                                             |
| Standalone mode                              | Auto Program, Color Macro, Quick Color, Tunable White, User Color                                                                                                                 |
| Wireless DMX                                 | n.a.                                                                                                                                                                              |
| Indicator                                    | OLED graphical display                                                                                                                                                            |
| Controls                                     | 4 touch sensitive, backlighted controls                                                                                                                                           |
| Strobe                                       | 0-20Hz                                                                                                                                                                            |
| DMX I/O                                      | IP65 XLR 5-pin male/female                                                                                                                                                        |
| Ethernet I/O                                 | IP65 RJ45 Ethernet male/female                                                                                                                                                    |
| Power In                                     | TRUE1 compatible input & link-thru sockets                                                                                                                                        |
| USB Firmware Update                          | IP65 USB socket                                                                                                                                                                   |
| Dimensions & Weight                          |                                                                                                                                                                                   |
| IP class                                     | IP65                                                                                                                                                                              |
| IK class                                     | IK08                                                                                                                                                                              |
| Body material                                | Aluminum, Nylon                                                                                                                                                                   |
| Lens material                                | Tempered glass front                                                                                                                                                              |
| Net dimensions without Yoke (w x h x d)      | 400 x 200 x 191mm                                                                                                                                                                 |
| Net dimensions inches                        | 15,75 x 7,87 x 7,52 inches                                                                                                                                                        |
| Net weight (incl. Yoke)                      | 12,6 kg (27,78lbs)                                                                                                                                                                |
| Tilt                                         | 360°                                                                                                                                                                              |
| Tilt Locking System                          | Locking system with tothing and angle indicator                                                                                                                                   |
| Included / Optional                          |                                                                                                                                                                                   |
| Included items                               | Yoke 4.1, 2m Power Cable, Puk                                                                                                                                                     |
| Optional Accessories                         | Yoke 2.2, Yoke 4.3, FX Distance Frame, FX Filter Smoked Clear, FX Filter Elliptical Horizontal, FX Filter Elliptical Vertical, Floor Extension, Rigging Bracket, Omega Bracket ST |
| Color options                                | Black – RAL 9004 (Standard)<br>Custom color – any RAL (on request)                                                                                                                |
| Installation                                 |                                                                                                                                                                                   |
| Mounting point by Yoke (included)            | 3x 13mm / 1/2" holes, 1x centric TV Spigot attachment, 3x integrated Camlocks for Omega Brackets                                                                                  |
| Mounting point on fixture                    | 1/4 turn Omega Bracket on top and rear side                                                                                                                                       |
| Mounting point with optional Rigging Bracket | 2x 13mm / 1/2" holes for Clamp fixation                                                                                                                                           |
| Orientation                                  | Any                                                                                                                                                                               |
| Rigging possibilities                        | Hanging or ceiling / pendant mount                                                                                                                                                |
| Safety features                              | 2x rear mount for safety wire                                                                                                                                                     |
| Minimum distance from flammable materials    | 0,3 meters (11,8 inch)                                                                                                                                                            |

## Order Number

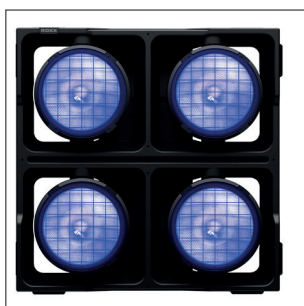
| CLUSTER                         |              |
|---------------------------------|--------------|
| S2                              | 13305001     |
| Accessories                     | Order Number |
| FX Distance Frame               | 13908101     |
| FX Filter Smoked Clear          | 13908001     |
| FX Filter Elliptical Horizontal | 13907801     |
| FX Filter Elliptical Vertical   | 13907901     |

| Accessories     | Order Number |
|-----------------|--------------|
| Yoke 2.2        | 13907001     |
| Yoke 4.1        | 13907601     |
| Yoke 4.3        | 13907101     |
| Floor Extension | 13907201     |
| Rigging Bracket | 13907411     |
| Omega Bracket   | 90900002     |

## Further products of the CLUSTER series:



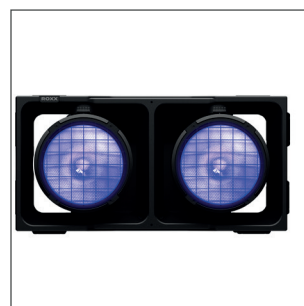
CLUSTER B4 W



CLUSTER B4 FC



CLUSTER B2 W



CLUSTER B2 FC

