| Product name | Chameleon [1] |
|---|---|
| Product code | CH-H04-STR04 |
| | CH-H04-STR12 |
| | CH-H04-STR16 |

## Introduction

ShowLED Chameleon offers the same extensive features as the ShowLED Classic system, but with stars in every colour as a result of RGB colour mixing.

ShowLED Classic and Chameleon star curtain share the same controller. Once RGB LED strings are linked to the controller, the unit will automatically switch to RGB mode.
Choose from colour changes, twinkling effects or chase patterns, offering the full colour spectrum. Chameleon star curtains are easily DMX controlled through preset effect memory or offer full dimmer control of each output channel.

With 8 output channels, a controller runs a maximum of 256 RGB LEDs. Given the standard density of around 6 LEDs per sqm (randomly placed), one controller can run a star curtain surface of up to 50 sqm. By linking several controllers together in master-slave configuration, multiple panels become one extended setup.

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INDOOR    IP40

## Product specific properties

| Type | Chameleon - 4/12/16 pixels – 1250mm pitch |
|---|---|
| LED | 1 T-1 ¾ (5mm) RGB per pixel |
| Colour range | 16.7 million colours |
| Viewing angle | 130° FWHM [2] |
| Luminous Flux | 2.80 lm / pixel [3] |
| Efficacy | n/a [4] |
| Cover lens | n/a |
| Housing | ABS housing |
| Surfaces | Fabrics – Hook and loop fasteners |
| | Walls and panels – n/a |
| | Netting – n/a |
| Size | ø 11.0mm x 12mm LED + collar |
| | ø 40.0mm x 8mm (+2mm) housing |
| Weight | 250g per string – 4 |
| | 380g per string – 12 |
| | 500g per string – 16 |
| Pitch | 1250mm – standard |
| | 160mm – minimum (any pitch on request) |
| Operating temp. | -20°C to 50°C |
| Storage temp. | -20°C to 70°C |
| Environment | IP40 version |

## Electrical properties

| String supply | 5 volt |
|---|---|
| Power per pixel | 0.2 watt |
| Power per string | 0.8 watt – 4 |
| | 2.4 watt – 12 |
| | 3.2 watt – 16 |

## Control requirements

| Control | ShowLED Conbox |
|---|---|
| | 90 – 250 VAC / 60Watt input |
| | 0.508 Kg |
| Source | Conbox settings or lighting desk (DMX) |

## Photometrical properties

| LED | 1 T-1 ¾ (5mm) RGB per pixel | |
|---|---|---|
| Colour range | 16.7 million colours | |
| Viewing angle | 130° FWHM [2] | – white |
| | 130° FWHM | – red |
| | 130° FWHM | – green |
| | 130° FWHM | – blue |
| Luminous Flux | 2.80 lm / pixel [3] | – white |
| | n/a | – red |
| | n/a | – green |
| | n/a | – blue |
| Efficacy | n/a | |
| Ambient temp. | 20° C [5] | |
| Colour temp. | n/a | |
| Cover lens | n/a | |



Chameleon 130° (FWHM)
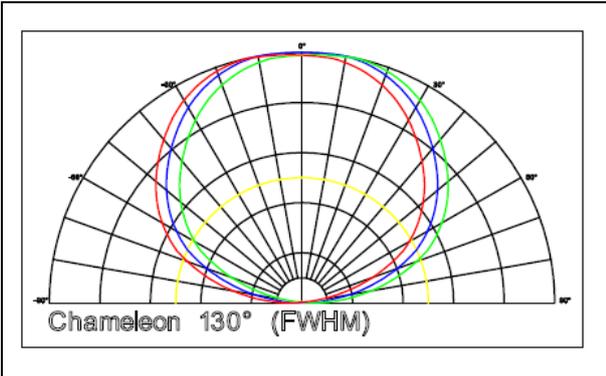
1 – version: 2009 rev 5.7
2 – full width at half maximum
3 – when operating on full white
4 – not applicable
5 – operating temperature during test reading

LED CHARACTERISTICS: As LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different present parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. ShowLED uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

CH-002-STR04 /12 /16
units: mm version: 09-5.7