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)

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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)

CH-002-STR04 /12 /16
units: mm version: 09-5.7
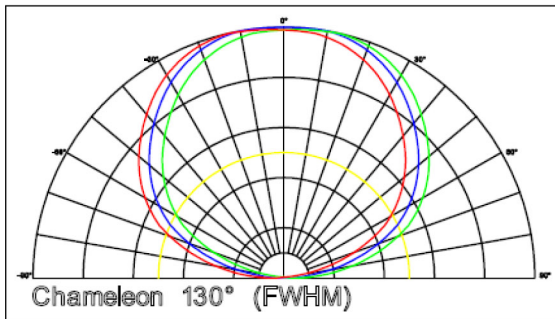
1 – version: 2009 rev 5.7
2 – full width at half maximum
3 – when operating on full white
4 – not applicable
5 – operating temperature during test reading

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.