

<b>Product name</b>	<b>Animation Hybrid<sup>1</sup></b>
<b>Product code</b>	<b>AN-B07-STR32</b>

### Introduction

The Animation Hybrid is both highly UV-resistant and temporarily submersible (IP67 version).

It is blindingly bright on stage and suitable for outdoor daytime use, but more subtle thanks to the active colour correction and white balance adjustability.

Designed for the biggest set up possible, yet still a very budget-friendly solution (low maintenance, storage, installation and transport costs).

The Animation Hybrid system can be used in a large range of setups, far beyond fabrics and nettings.

Easy wall-mounting is possible through its versatile clips, and the housing is robust enough to fit aluminum frames or to be clipped upon steel wires.



### Product specific properties

Type	Animation Hybrid - 32 pixels - 275mm pitch
LED	6 RGB + 1 RRR <sup>2</sup> per pixel
Colour range	16.7 million colours
Viewing angle	110° FWHM <sup>3</sup>
Luminous Flux	45 lm / pixel <sup>4</sup>
Efficacy	30 lm / watt <sup>5</sup>
Cover lens	Polycarbonate (clear)
Housing	Automotive grade hot melt
Surfaces	Fabrics – Nylon pins Walls and panels – PC versatile clip Netting – PC versatile clip/Nylon triangles
Size	ø 25.5mm x 1.5mm lens ø 47.1mm x 9.1mm housing
Weight	1040g per string
Pitch	275mm – standard 160mm – minimum (any pitch on request)
Operating temp.	-20°C to 50°C
Storage temp.	-20°C to 70°C
Environment	IP65 version to 67 version

### Electrical properties

String supply	24 volt
Power per pixel	1.5 watt (0.6 average <sup>6</sup> )
Power per string	48 watt (19.2 average <sup>6</sup> )

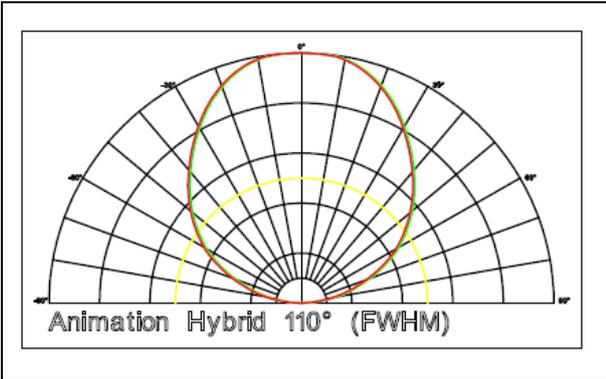
### Control requirements

Control	ShowLED Animation controller 90 – 250 VAC / 450Watt input 3.32 Kg
Switch	ShowLED Giga Switch 90 – 250 VAC / 20 Watt input 3.60 Kg
Data processing	ShowLED V-box (input: CVBS, S-VIDEO, VGA) 90 – 250 VAC / 15 Watt input 2.00 Kg
Source	Computer, media server or other video source



### Photometrical properties

LED	6 RGB + 1 RRR <sup>2</sup> per pixel
Colour range	16.7 million colours
Viewing angle	110° FWHM <sup>3</sup> – white
	110° FWHM – red
	110° FWHM – green
	108° FWHM – blue
Luminous Flux	45.0 lm / pixel <sup>4</sup> – white
	14.1 lm / pixel – red
	27.2 lm / pixel – green
	3.7 lm / pixel – blue
Efficacy	30 lm / watt <sup>5</sup>
Ambient temp.	20° C <sup>7</sup>
Colour temp.	6500K <sup>8</sup>
Cover lens	Polycarbonate (clear)



- 1 – version: 2014 rev 1.2
- 2 – RRR LED = triple Red LED
- 3 – full width at half maximum
- 4 – when operating on full white
- 5 – amount of light (luminous flux) over consumed power to produce the light
- 6 – average power when displaying video content
- 7 – operating temperature during test reading
- 8 – colour 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.

