

Product name	Animation Indoor¹
Product code	AN-A04-STR64

Introduction

The dynamic ShowLED Animation Indoor systems lets you create video effects with flexible, lightweight drapes making it the fastest and most cost effective way to install a video display product.

Display low to medium resolution still images, video loops and flash animations on performances and special effects or make the Animation curtains the star of the show.

The RGB LEDs can be individually controlled as pixels and offer fast refresh rates for superb flicker free picture quality.

Animation components can be integrated into many other fabrics or surfaces.

Individual images can be configured across countless attached drapes with single control to produce large animated surfaces.



Product specific properties

Type	Animation Indoor - 64 pixels - 350mm pitch
LED	1 T-1 3/4 (5mm) RGB per pixel
Colour range	16.7 million colours
Viewing angle	125° FWHM ²
Luminous Flux	2.75 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 10.0mm x 8.5mm LED + collar ø 40.0mm x 7.5mm (+2mm) housing
Weight	1020g per string
Pitch	350mm – 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	24 volt
Power per pixel	0.35 watt (0.14 average ⁵)
Power per string	22.4 watt (9.0 average ⁵)

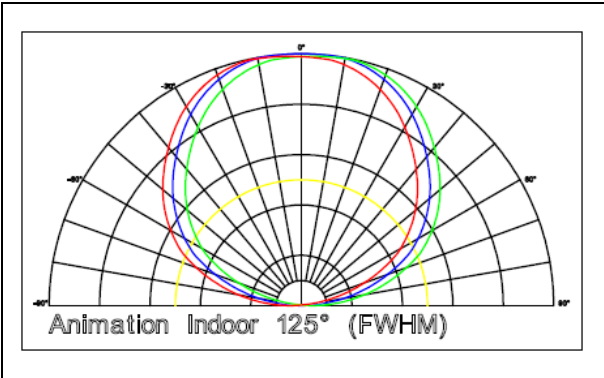
Control requirements

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	1 T-1 ¼ (5mm) RGB per pixel
Colour range	16.7 million colours
Viewing angle	125° FWHM ² – white
	125° FWHM – red
	125° FWHM – green
	125° FWHM – blue
Luminous Flux	2.75 lm / pixel ³ – white
	n/a – red
	n/a – green
	n/a – blue
Efficacy	n/a
Ambient temp.	20° C ⁶
Colour temp.	n/a
Cover lens	n/a



- 1 – version: 2011 rev 8.0.1
- 2 – full width at half maximum
- 3 – when operating on full white
- 4 – not applicable
- 5 – average power when displaying video content
- 6 – 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.

