

LED PIXEL DEXTER-S

Technical datasheet

Product name	Animation Dexter D/S/B/T
Product code	AN-B07-STRXX

INTRODUCTION

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

The housing is robust enough to fit aluminum frames or to be clipped upon steel wires.



PRODUCT SPECIFIC PROPERTIES

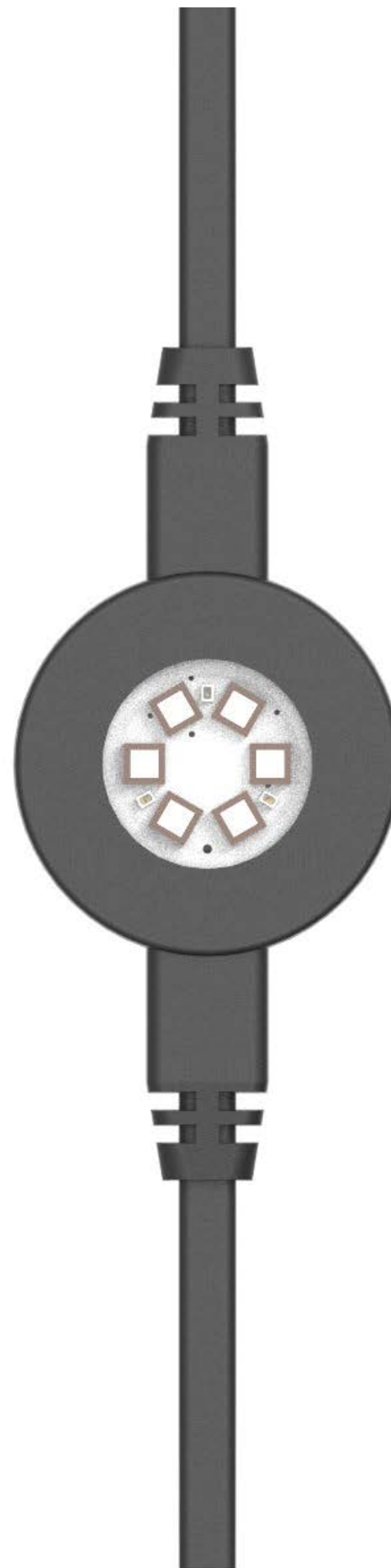
TYPE	: ANIMATION DEXTER - max 64 PIXELS - CUSTOM PITCH
LED	: 6 RGB + 3 RRR PER PIXEL
COLOUR RANGE	: 16.7 MILLION COLOURS
VIEWING ANGLE	: 110° FWHM ³
LUMINOUS FLUX	: 45 LM / PIXEL ⁴
EFFICACY	: 30 LM / WATT ⁵
COVER LENS	: POLYCARBONATE (CLEAR)
HOUSING	: AUTOMOTIVE GRADE HOT MELT
SURFACES	: FABRICS - NYLON PINS
	: WALLS AND PANELS - PC VERSATILE CLIP
	: NETTING - PC VERSATILE CLIP/NYLON TRIANGLES
SIZE	: Ø 25.5MM X 1.5MM LENS
	: Ø 46.5MM X 11.6 MM HOUSING
WEIGHT	: 1040G PER STRING (32 pixels)
PITCH	: CUSTOM PITCH
	: 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	: 1.2 WATT (0.6 AVERAGE ⁶)
POWER PER STRING	: 38.2 WATT (19.2 AVERAGE ⁶) (32 pixels)

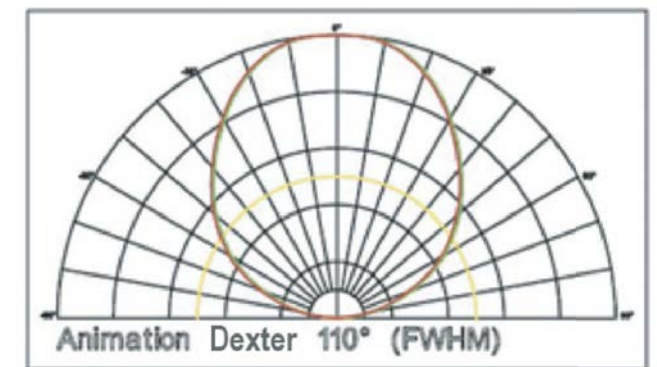
CONTROL REQUIREMENTS

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 VIDEO SOURCES

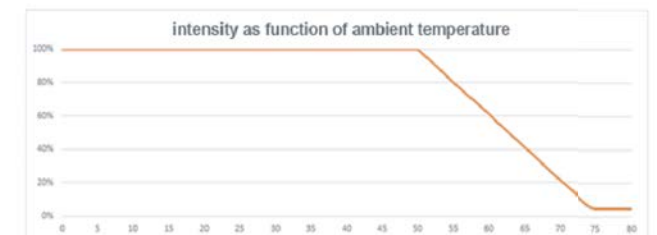


PHOTOMETRICAL PROPERTIES

LED	: 6 RGB + 3 RRR ² PER PIXEL
COLOUR RANGE	: 16.7 MILLION COLOURS
VIEWING ANGLE	: 110° FWHM ³ - WHITE
	: 110° FWHM - RED
	: 110° FWHM - GREEN
	: 110° FWHM - BLUE
LUMINOUS FLUX	: 45.0 LM / PIXEL ⁴ - WHITE
	: 14.1 LM / PIXEL - RED
	: 27.2 LM / PIXEL - GREEN
	: 3.7 LM / PIXEL - BLUE
EFFICACY	: 30 LM / WATT ⁵
AMBIENT TEMP.	: 20° C ⁷
COLOUR TEMP.	: 6500K ⁸
COVER LENS	: POLYCARBONATE (CLEAR)



- 1 - version: 2016 rev 2.0
- 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.

	Project:	Reference:	Location:	Note:	Scale:	Date:	Drawings title:	Drawing n°:
		TEL +971 6 557 83 07 FAX +971 6 557 84 09 E-MAIL: INFO@SHOWLED.COM ShowLED F2C, P.O. BOX: 120888, WAREHOUSE Q4-006, SHARJAH AIRPORT FREE ZONE, UNITED ARAB EMIRATES.	category: place: area: selling area: surrounding:	DIMENSIONS ARE AS REFERENCE. For any differences of measures you must contact us immediately ACTUAL DIMENSIONS ARE TO BE TAKEN ON SITE	The drawings belongs only to the As per law about copyrights, no drawings can be copied, given or sent to others without our previous approval.	out of scale		