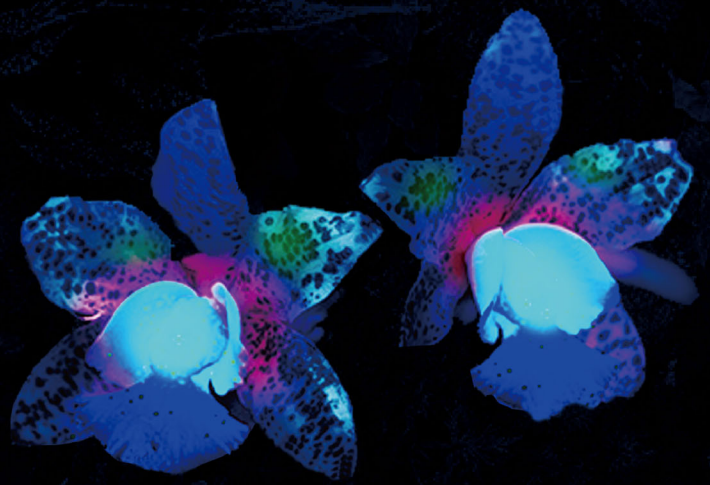
DarkFX

Antari UV EFFECTS

Antari Lighting And Effects / darkfx.antari.com

D08UVFX02

DarkFX



Antari UV EFFECTS

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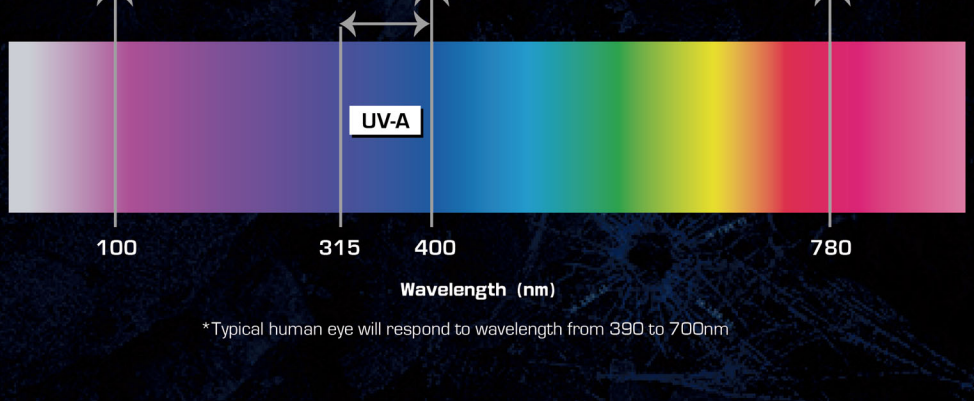
Intro

The prodigious DarkFX Series has adopted the latest LED technology with a peak wavelength of 365nm. Because, 365nm is in the middle of UV-A wavelength the emitted light evenly covers the whole spectrum producing a traditional blacklight effect without the visible light associated with most LED based blacklights. All UV reactive material reflects perfectly with stunning bright and vivid colors.

Traditional blacklight fixtures emit long-wave ultraviolet (UV) light without much visible light. The UV spectrum ranges from 100 to 400 nanometers (nm), emitting light that is generally invisible to the human eye*, however the higher the "nm" rating the more visible light. Traditionally the entertainment industry has used the UV-A spectrum (315-400nm), which is not harmful to humans, widely adopted in light fixtures, counterfeit detection, medical use and industrial curing.



*Typical human eye will respond to wavelength from 390 to 700nm

UV reactive material such as UV Paint, UV Make-up, and fluorescent minerals produce the best "glow" effect without any ambient light. Most LED blacklights in the market today have a peak wavelength between 390-410nm which is where the UV and visible light spectrums begin to overlap, in these cases the ambient light generated is very purple or blueish making the end result less than ideal when trying to create a true blacklight environment.

Application Area

Theater, Amusement Parks, TV & Film,
Themed Architecture and Entertainment Venues

DarkFX Wash 2000 IP

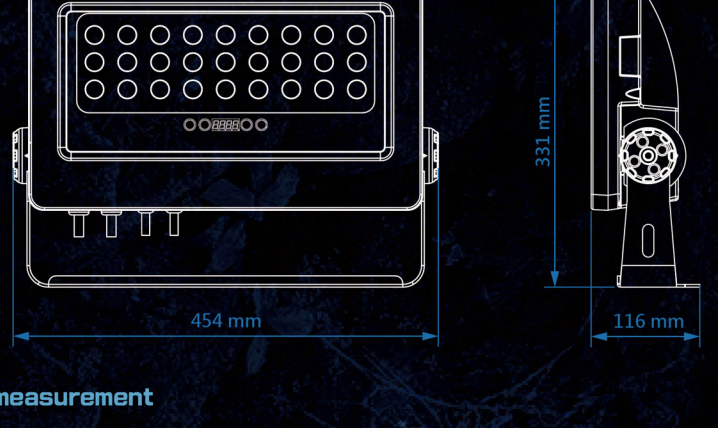
Features

- High efficiency UV LED
- Peak wavelength at 365nm
- Special optics will not degrade to high UV exposure
- Minimum visible light
- High output 24800mW at full intensity
- Flicker free
- Weather proof IP-65

Specification

- **Input voltage**	AC100-240V 50-60Hz	- **Control option**	DMX 512, Manual
- **Rated power**	69.9W @ 110VAC 70.5W @ 220VAC	- **DMX channels**	1, 2
		- **Operation**	Digital display with 4 buttons
- **LED**	33 x 1.9W High Power UV LED	- **Power connection**	3-Pin waterproof connector
- **Refresh rate**	500 Hz	- **Data connection**	3-Pin waterproof connector
- **Optics**	25 degrees	- **Housing**	Aluminum die-cast
- **Output**	24800mW	- **Protection rating**	IP-65
- **Project lamp life**	20,000 hrs L70 at 25 degrees	- **Dimension**	L 454 x W 116 x H 331 mm
- **Color range**	365nm	- **Weight**	10.4 Kg

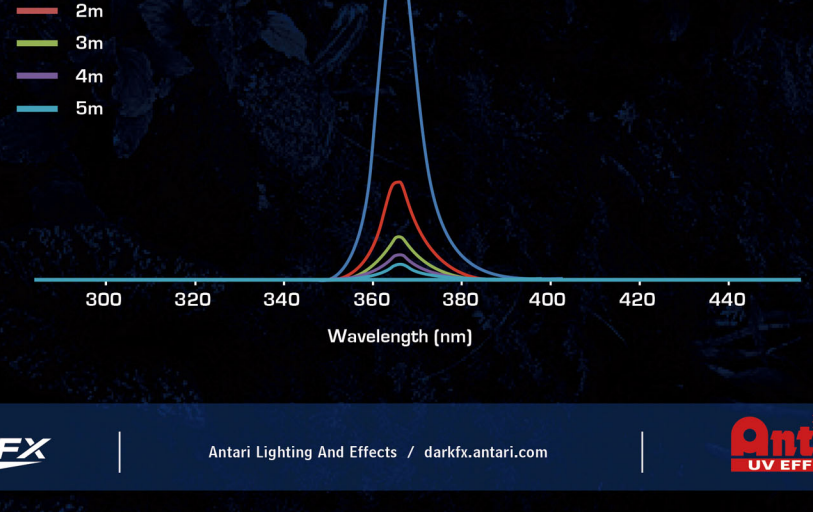
Dimensions



Illuminance measurement

Distance (m)	1	2	3	4	5
Intensity	5462 [μW/cm²] 54.62 [W/m²]	1572 [μW/cm²] 15.72 [W/m²]	718 [μW/cm²] 7.18 [W/m²]	409 [μW/cm²] 4.09 [W/m²]	251 [μW/cm²] 2.51 [W/m²]
Intensity degradation rate (compare with 1m)	0 %	71.2 %	86.8 %	92.5 %	95.4 %

Spectrum



DarkFX Wash 2000

Features

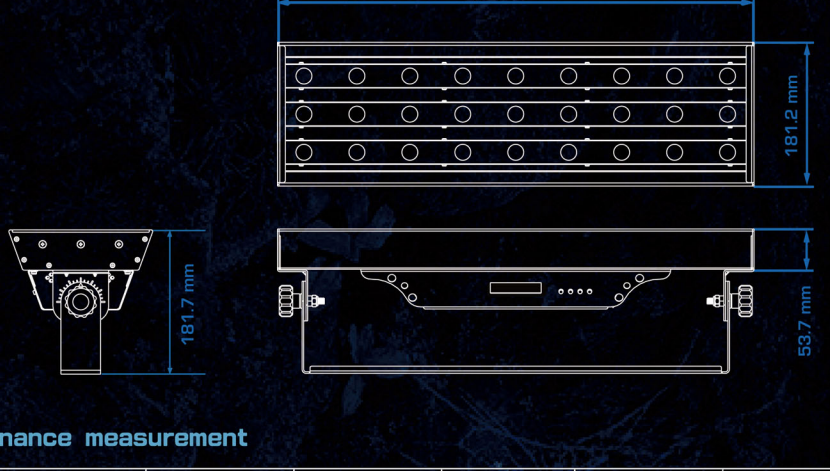
- High efficiency UV LED
- Peak wavelength at 365nm
- Minimum visible light
- High output 20290mW at full intensity
- Special optics will not degrade by high UV exposure
- Flicker free
- Adjustable modular strips to maximize coverage

Specification

- **Input voltage**	AC100-240V 50-60Hz	- **DMX channels**	1, 2
- **Rated power**	58W @ 110VAC 55.8W @ 220VAC	- **Operation**	8 bit DMX 512 2 x 16 digit display with 4 buttons
- **LED**	27 x 1.9W High Power UV LED		
- **Refresh rate**	500 Hz	- **Power connection**	Neutrik Powercon in / through
- **Optics**	25 degrees	- **DMX data connection**	5-pin XLR
- **Radiant flux output**	20290 mW	- **Housing**	Metal
- **Project lamp life**	20,000 hrs L70 at 25C	- **Protection rating**	IP-20 Indoor use only
- **Peak wavelength**	365nm	- **Dimension**	L 600 x W 181.2 x H 181.7 mm
- **Control option**	DMX 512, Manual	- **Dry weight**	6.37 kg

DarkFX Wash 2000

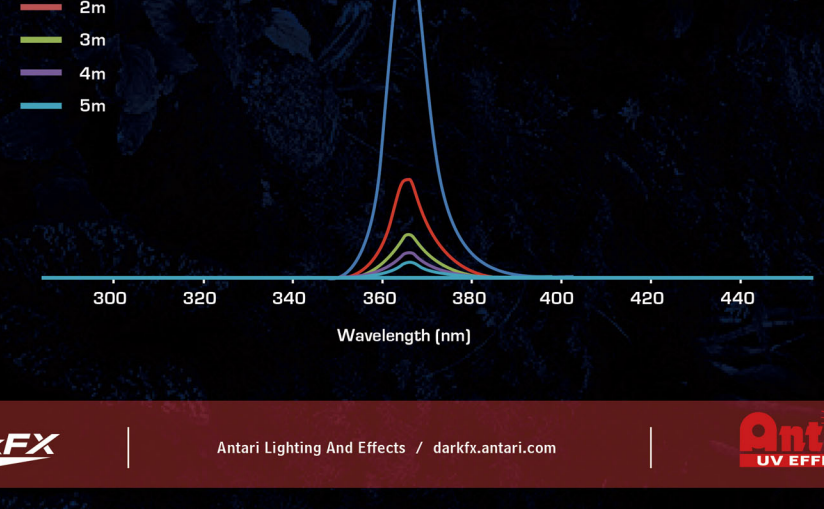
Dimensions



Illuminance measurement

Distance (m)	1	2	3	4	5
Intensity	4184 (μW/cm²) 41.84 (W/m²)	1737 (μW/cm²) 17.37 (W/m²)	933(μW/cm²) 9.33 (W/m²)	648 (μW/cm²) 6.48 (W/m²)	526 (μW/cm²) 5.26 (W/m²)
Intensity degradation rate (compare with 1m)	0 %	66.3 %	83.8 %	87.7 %	90.9 %

Spectrum



DarkFX Spot 670

Features

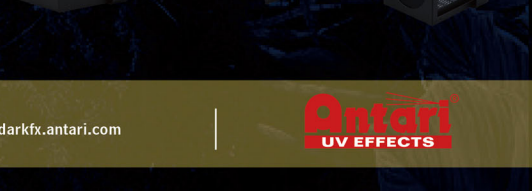
- High efficiency UV LED
- Peak wavelength at 365nm
- Minimum visible light
- High output 6760mW at full intensity
- Special optics will not degrade by high UV exposure
- Flicker free
- 15 degrees narrow beam angle

Spot 670 Specification

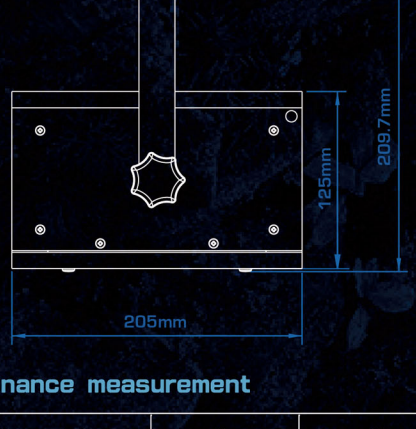
- **Input voltage**	AC100-240V 50-60Hz	- **Control option**	DMX 512, Manual
- **Rated power**	19.1W @ 110VAC 18.8W @ 220VAC	- **DMX channels**	1, 2
		- **Operation**	2 x 16 digit display with 4 buttons
- **LED**	9 x 1.9W High Power UV LED		
- **Refresh rate**	500 Hz	- **Power connection**	Neutrik Powercon in/through
- **Optics**	15 degrees	- **DMX data connection**	5-pin XLR
- **Radiant flux output**	6760 mW	- **Housing**	Metal
- **Project lamp life**	20,000 hrs L70 at 25C	- **Protection rating**	IP-20 Indoor use only
- **Peak wavelength**	365nm	- **Dimension**	L 205 x W 125 x H 125 mm
		- **Dry weight**	2.64 kg

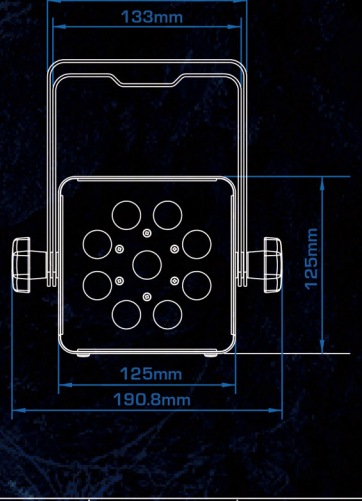
IP Enclosure Specification

- **Housing**	Metal
- **Protection rating**	IP-63
- **Dimension**	L 320.5 x W 173 x H 141.2 mm
- **Dry weight**	3.08 kg



Dimensions

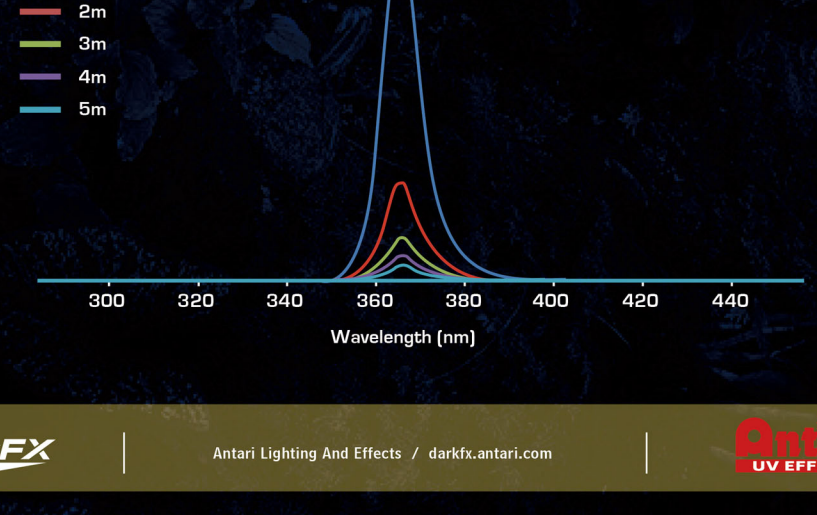




Illuminance measurement

Distance (m)	1	2	3	4	5
Intensity	4976 (μW/cm²) 49.76 (W/m²)	1675 (μW/cm²) 16.75 (W/m²)	807(μW/cm²) 8.07 (W/m²)	614 (μW/cm²) 6.14 (W/m²)	451 (μW/cm²) 4.51 (W/m²)
Intensity degradation rate (compare with 1m)	0 %	66.3 %	83.8 %	87.7 %	90.9 %

Spectrum



DarkFX Drive 4

Features

- Compact and robust design
- 4 output terminals for DarkFX UV fixtures
- Neutrik powercon in/thru
- 2 x 16 digit LCD display interface
- DMX control option

Specification

- **Input voltage**	AC100-240V 50-60Hz	- **Operation**	2 x 16 digit display with 4 buttons
- **Rated power**	53W @ 110VAC 75W @ 220VAC	- **Fixture output**	4 terminal block
		- **Power connection**	Neutrik Powercon in/through
- **Refresh rate**	500Hz	- **DMX data connection**	5-pin XLR
- **Output current**	Constant 500mA Max. per channel	- **Housing**	Metal
		- **Protection rating**	IP-20 Indoor use only
- **Control option**	DMX 512, Manual	- **Dimension**	L 216 x W 135 x H 70 mm
- **DMX channels**	1, 2	- **Dry weight**	1.62 kg

Dimensions

DarkFX Strip 510

Features

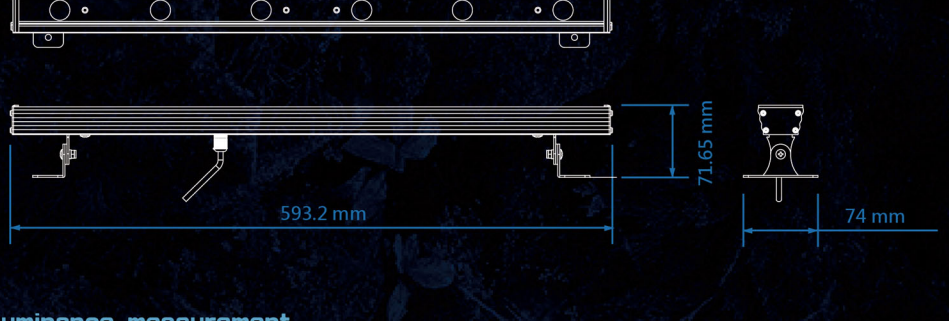
- High efficiency UV LED
- Peak wavelength at 365nm
- Minimum visible light
- High output 4500mW at full intensity
- Special optics will not degrade by high UV exposure
- Flicker free

Specification

- **Input voltage**	DC 20-24V	- **Peak wavelength**	365nm
- **Rated power**	14W	- **Cable connection**	22 AWG wire cable
- **LED**	6 x 1.9W High Power UV LED	- **Housing**	Alumunum Extrusion
- **Optics**	25 degrees	- **Protection rating**	IP-20 Indoor use only
- **Radiant flux output**	4500 mW	- **Dimension**	L 593.2 x W 74 x H 71.65 mm
- **Project lamp life**	20,000 hrs L70 at 25C	- **Dry weight**	1.08 kg

DarkFX Strip 510

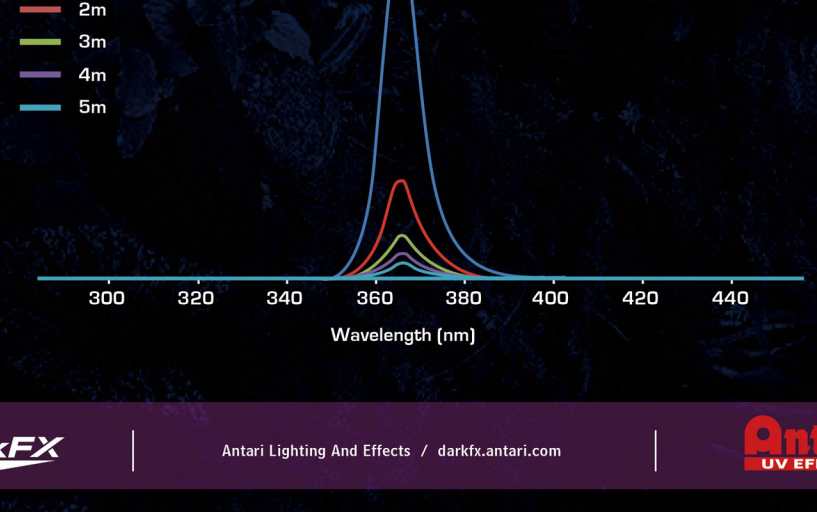
Dimensions



Illuminance measurement

Distance (m)	1	2	3	4	5
Intensity	700 [μW/cm²] 7.00 [W/m²]	211 [μW/cm²] 2.11 [W/m²]	99 [μW/cm²] 0.99 [W/m²]	54 [μW/cm²] 0.54 [W/m²]	38 [μW/cm²] 0.38 [W/m²]
Intensity degradation rate (compare with 1m)	0%	69.8 %	85.9 %	92.2 %	94.5 %

Spectrum



DarkFX Spot 510 IP

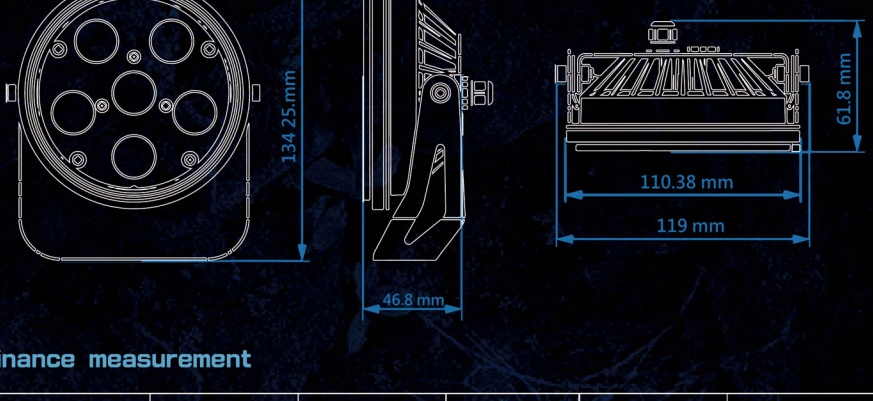
Features

- High efficiency UV LED
- Peak wavelength at 365nm
- Minimum visible light
- High output 4500mW at full intensity
- Special optics will not degrade by high UV exposure
- Flicker free
- Weather proof IP-65

Specification

- **Input voltage**	DC 20-24V	- **Peak wavelength**	365nm
- **Rated power**	14W	- **Cable connection**	22 AWG wire cable
- **LED**	6 x 1.9W High Power UV LED	- **Housing**	Alumunum Die Casting
- **Optics**	15 degrees	- **Protection rating**	IP-65
- **Radiant flux output**	4500mW	- **Dimension**	W 110.5 x D 46.8 x H 134.25 mm
- **Project lamp life**	20,000 hours L70 at 25C	- **Dry weight**	0.71 kg

Dimensions



Illuminance measurement

Distance (m)	1	2	3	4	5
Intensity	2062 (μW/cm²) 20.62 (W/m²)	534 (μW/cm²) 5.34 (W/m²)	213(μW/cm²) 2.13 (W/m²)	126 (μW/cm²) 1.26 (W/m²)	76 (μW/cm²) 0.76 (W/m²)
Intensity degradation rate (compare with 1m)	0 %	74.1 %	89.6 %	93.9 %	96.3 %

Spectrum