

LiteRing Performance

The LiteRing works in conjunction with our reflective Chromatte™ fabric.

In ambient light Chromatte appears grey to the eye, however when fitted with a lens-mounted LiteRing the camera sees the fabric as an even blue or green background. In a similar way that 'cats eyes' reflect light from the headlights of an approaching vehicle, the source light from the LiteRing is reflected back into the lens of the camera.

Whereas conventional chroma key fabric requires approx 1000w of light for every linear metre of background, the LiteRing's LEDs provide the only light required to generate a brilliant and even coloured Chromatte background.

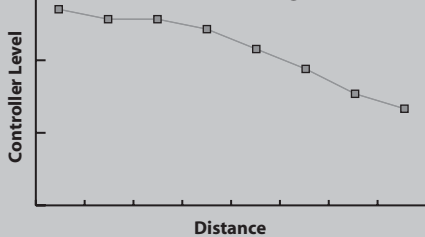
The LiteRing and Chromatte work together in a process called 'retro-reflectivity' - the physical characteristics of light, its direction and position are used to generate unprecedented chroma key results.

In a controlled studio environment we performed a series of tests using Chromatte with a blue and a green LiteRing . Using two identical camera* set-ups, at a range of distances from the background and LiteRing/Controller settings.

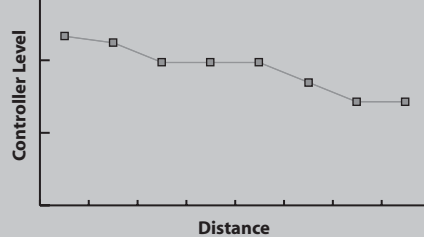


Performance Statistics

Blue LiteRing



Green LiteRing



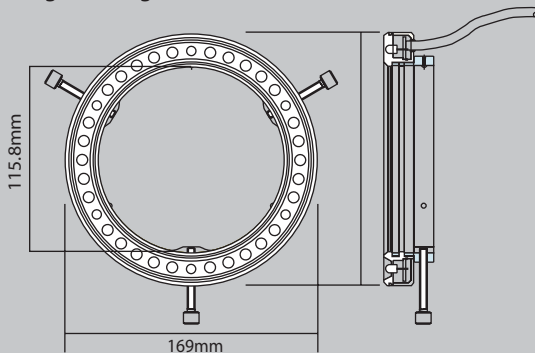
KEY

█ Peak to Peak Chrominance

Cameras at F-4,
Ambient light 500lux

Schematics

Large LiteRing



Product	Blue LiteRing	Green LiteRing
Colour Phase Angle	206degrees	290degrees
Intensity	47 candela	158 candela
Power Consumption. Maximum power output 12v source.	430/480mA	340/380mA
Size	Small	Large
Camera Lens Dimensions	44.5mm-74.9mm	60.3mm-115.8mm
LiteRing Weight	0.5lb/25g	0.8lb/35g
12DC Power Adaptor (Supplied to suit UK, EU or US power sockets)		

* Tests performed using two Panasonic AWE-600 cameras with the same lens and focal settings.