

DT Photon

Precision Lighting for Cultural Heritage

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DT PHOTON & PHOTON XL

PRECISION LIGHTING FOR CULTURAL HERITAGE

Made in the USA, The DT Photon series is the only lighting designed specifically for Cultural Heritage imaging and color reproduction. They provide preservation-grade spectrally accurate color reproduction, conservation-friendly UV-filtration & operating temperature, and industrial-grade build quality and longevity.

Both the 19" DT Photon and 38" DT Photon XL can be used for standard photographic lighting and used with any copy stand. The DT Atom was specialized designed to hold two 19" DT Photon units, without the need for floor stands or ceiling mounts.



DT Photon utilized as a transmissive light box in the DT Atom

The DT Photon can also be placed under an object such as photographic film or a watermarked manuscript in order to provide transillumination. It fits in the interior cavity of the DT Atom or placed on the tabletop of any copy stand and used as the object-bearing surface; the top surface runs at 92 degrees Fahrenheit (33° C), the same as a human hand.



DT Photon in its default state on the DT Atom.

OPTIMIZED FOR CAPTURE ONE CH

The smooth spectrum of the DT Photon is precisely mapped in the calibrated color profiles found in Capture One CH.

DT PHOTON



DT PHOTON XL



SPECS & FEATURES

LONGEVITY

Construction	Metal
Origin	Made in the USA
Warranty	3 years
Expected bulb life	25,000 hours (35 hrs/week for ~14 yrs)

POWER

Voltage:	100-250 VAC
Frequency:	45 - 65 Hz
Input:	Max 4A @ 120 V or 2A @ 240 V
Output / channel:	5 A @ 24 V DC
Watts:	480W Max

COLOR QUALITY

Color Rendering Index (CRI):	98
Color Rendering Index (CRI-14):	98
Color Quality Score (CQS-Qa):	98
Color Quality Score (CQS-Qg):	100
Spectral Flatness:	Excellent
Color Temperature:	5600 Kelvin
Color Profile:	Included in Capture One CH
Warm Up Time:	Under 10 seconds

PHYSICAL

Mounting Bracket:	Included
Weight	(Photon): 10 lbs (Photon XL): 16 lbs
Certifications:	CE
Mounting Bracket	DT Photon: Available DT Photon XL: Included
Weight	DT Photon: 10 lbs DT Photon XL: 16 lbs
Size (total with arms)	DT Photon: 19.625" x 10.625" x 6.5" DT Photon XL: 38.5" x 10.625" x 3.625" DT Photon Control Box: 12.5" x 8.375" x 4.25"
Size of Illuminating Area	DT Photon: 18.125" x 9.115" DT Photon XL: 36.81" x 8.865"

ILLUMINATION AMOUNT

REFLECTIVE

2 DT Photon XL 15 ft to subject	ISO100, 1.0 sec @ f/8 (illuminating 144" x 216" area)
1 DT Photon XL 6 ft to subject	ISO100, 1/5 sec @ f/8 (illuminating 48" x 72" area)
2 DT Photon XL 5 ft to subject	ISO 100, 1/8 sec @ f/8 (illuminating 48" x 72" area)

TRANSMISSIVE

DT Photon	ISO 100, 1/60th, f/8
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THE DT PHOTON SMARTCONTROLLER

In our never-ending mission to improve the quality, speed, and user experience of digitizing cultural heritage material, we've designed an exciting new controller for our DT Photon Lighting Systems.



MORE CONTROL, LESS EYE FATIGUE.

As anyone that's spent hours working under the bright (although low-temperature) DT Photon lights, looking back and forth from a brightly-lit object to your computer screen can cause fatigue and strain on your eyes. The DT Photon SmartController solves this problem by adding a low-level continuous light setting, which then raises to full-power only when capturing the image.

Those familiar with the modeling light/strobe process in traditional studio photography will immediately understand the benefits of this new system.

We've made sure that both the low-level and high-level are fully-controllable with easy to use knobs, and added the ability to turn off the "flash" setting, so you can use same continuous-lighting setting as before, giving you the best of both worlds.