



Introducing

# UV-C BOXER

## **DISINFECTS** VIDEO EQUIPMENT IN JUST 3 MINUTES

In response to the pandemic, Cartoni introduces the UV-C BOXER, a new disinfection device harnessing the power of medical-grade germicidal UV to safely sanitize film and video equipment - including cameras, batteries, lens, Steadicam, and accessories. The UV-C BOXER can be battery-powered and is the ultimate defense for getting back to work on set, in rental houses and more!

In independent lab tests performed by Texas-based Microchem Laboratory, an FDA compliant laboratory which specializes in testing, the Cartoni UV-C BOXER was found to disinfect 99.98% of microorganisms, including COVID 19, in three minutes - two minutes less than original estimates. It's box design, and large chamber allows productions and rental houses to evenly sanitize multiple objects at a time, which may unknowingly contaminate film and video sets.



DISINFECT VIDEO AND FILM EQUIPMENT IN JUST 3 MINUTES



EQUIPPED WITH 10 MEDICAL-GRADE UV-C LAMPS



NEUTRALIZES GERMS AND VIRUSES, INCLUDING COVID-19



LARGE, SLIDING DRAWER WITH SAFETY LOCK FOR SAFE LOADING AND SANITIZATION



POWER WITH STANDARD PLUG OR BATTERIES FOR ULTIMATE VERSATILITY



SAFE, EFFECTIVE AND FAST



## SPECIFICATIONS

### DIMENSIONS

100x66x95 cm | 39.5x 26x37.5 in

### WEIGHT

52 kg. or 114.64 lbs

### INTERNAL CHAMBER

93x55x62cm or 36.5x21.5x24 in

### CHAMBER & RACK

10 x 4v UV-C lamps equally distributed on all 6 polished aluminum mirror coating for optimal reflection in all directions.

### POWER

110/220 volts, battery or power bank.

### OPERATING TENSION

24volts.

### IRRADIATION

360° UV-C wavelength covering all surfaces, including rack base. The only shadowed zones consisting in the 3 mm diameter of the rack's stainless steel rods.

### CYCLE

3 minutes with timer.

"At Cartoni and in Italy, we were among the first to be hit by this devastating pandemic. During our state-mandated lockdown, we studied a solution to help our industry. The answer was a device that could help production crews and rental houses to stay safe from the virus. Social distancing, masks, and gels meet safety requirements, but on production sets where the equipment is constantly handled multiple times during shooting hours by operators, assistants, grips, etc... we think for production to truly ramp up again, there is a compulsory need to disinfect and decontaminate gear daily or even several times a day," explains Elisabetta Cartoni, the President and CEO of Cartoni Camera Supports.

## WHAT IS UV-C LIGHT?

UV-C, or germicidal UV, is a wavelength of UV light, typically between 200 to 280 nanometers, that can inactivate pathogens like bacteria and viruses. UV-C light, in the right strength and dose, modifies the DNA structure of an infectious cell so it cannot reproduce and therefore cannot colonize and spread.<sup>1</sup>

UV radiant energy was first used for disinfecting surfaces in 1877<sup>2,3</sup> and has been used extensively, for over 40 years, in disinfecting drinking water, waste water, air, pharmaceutical products, and surfaces against a whole suite of human pathogens.<sup>4</sup> UV-C has been used in hospitals and healthcare facilities for decades and is proven to be effective in both the reduction of hygiene failures and in control environmental contamination by high-concern microorganisms, such as COVID-19.<sup>6</sup> Similar to UV-A and UV-B rays from the sun, exposure to UV-C can damage eyes and skin if overly exposed, so it is essential to follow strict safety guidelines when UV-C devices are in use.

## WHAT IS THE UV-C BOXER ADVANTAGE?

The Cartoni UV-C BOXER is the only medical-grade UV-C device designed for film and video equipment and is currently being evaluated by the Italian Health Ministry for certification. The UV-C medical-grade lamps in the Cartoni UV-C BOXER germicidal device has been designed and tested to provide ten times the irradiation needed to sanitize the surface of objects in the device.<sup>10</sup>

The BOXER has 10 Osram/Philips 4watt medical-grade UV 9-watt lamps installed in the chamber.

The chamber is covered by high reflection polished aluminum on all six sides, which reflect the UV-C lamp beams in all directions to cover the entire surface of the item to sanitize, including the bottom.<sup>11</sup> The power of a reflected beam is 40% of the original beam, exceeding the needed germicidal effect by five times. Each lamp has a life of 6,000 hours and has no ozone release.

The typical length of time needed to disinfect and sanitize a set of equipment, including a camera, two lenses, two batteries, and one microphone is just five minutes. In order for effective sanitization, the objects must be well arranged and spaced in the BOXER chamber to ensure no overlapping.

FOR MORE INFORMATION, PLEASE CONTACT

[cartoni@cartoni.com](mailto:cartoni@cartoni.com)