

## Dose222™ Far UV-C Indicator Cards

Handheld 222 nm ultraviolet radiation measurement device

Dose222™ indicator cards are an easy, cost-effective way to visually verify that areas exposed to far UV-C are within the regulated dosage range. Calibrated to react to filtered far UV-C light at a wavelength of 222 nanometres, the cards facilitate regular dosage checks on emitters intended for the disinfection of occupied spaces, such as Ushio's Care222® far UV-C disinfection light sources, without special training or expensive equipment.

Care222® filtered 222 nm far UV-C modules achieve microbial reduction in unoccupied and occupied spaces, but to ensure regulations governing UV exposure and output are met, regular UV dose measurements must be taken.

### Ensuring full far UV-C exposure safety

Dose222™ indicator technology uses a specially-formulated, photo-chromatic ink at the centre of the card. The ink is highly-sensitive to 222 nm far UV-C light. As the centre dot receives far UV-C exposure, it will change colour in accordance with the level of dosage received. The colour is then matched to the visual key on the outer ring to determine the radiant energy density. A check mark will also appear in the centre dot after the card has received 4 mJ/cm<sup>2</sup> of filtered far UV-C light.

Dose222™ should be used on a regular basis, or at least once per week, in areas operating filtered far UV-C devices. Dose222™ indicators are designed to provide a visual indication of applied far UV-C dosage within a treatment cycle and are not intended to be used as a substitute for microbiological disinfection verification. Dose222™ cards must be stored at room temperature, away from direct sunlight and must not be reused.

### Species to be disinfected

#### ◆ Bacteria

E. coli [Escherichia. Coli O 157]  
Salmonella [Salmonella enterica subsp. Enterica serovar Typhimurium]  
MRSA Staphylococcus aureus [methicillin-resistant S. aureus]

#### ◆ Viruses

SARS-CoV-2 [Original strain and N5021Y variant]  
Influenza [Influenza A H1N1]  
Feline Calicivirus [Feline calicivirus (FCV) strain F4]

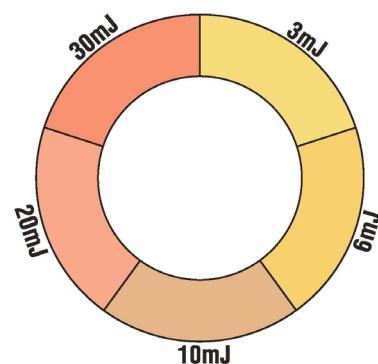
### Developing Solutions Together

Ushio is a partner that listens to your ideas and requirements. Let us optimise your processes according to your specifications and expectations. Use our expertise to develop a tailor-made solution that matches your needs.



USHIO EUROPE B.V. - Headquarters  
The Netherlands | +31 20 446 9333  
sales@ushio.eu | www.ushio.eu

USHIO GERMANY GmbH  
Germany | +49 8094 906 0  
sales@ushio.eu | www.ushio.de



Check mark will appear in center when dose indicator card is exposed to 4mJ/cm<sup>2</sup> of Far UV-C

DATE \_\_\_\_\_

START TIME \_\_\_\_\_ END TIME \_\_\_\_\_

ROOM \_\_\_\_\_ LOCATION \_\_\_\_\_

### Care222® Technology UV Dose Indicator Card

The photo-chromatic ink on Dose222™ indicator cards reacts to the presence of far UV-C light, revealing a different colour depending on the 222 nm dose received

### Reported dose for 3-log reduction of pathogens with a Care222® module

9 mJ/cm<sup>2</sup>  
10 mJ/cm<sup>2</sup>  
15 mJ/cm<sup>2</sup>

3\* mJ/cm<sup>2</sup>\*  
6 mJ/cm<sup>2</sup>  
24 mJ/cm<sup>2</sup>