

H2B-Spectral™ datasheet

H2B-Spectral™ is a non-contact optical sensor for point detection of microbial contamination on various solid surfaces in security and safety and medical applications where surfaces are exposed to accidental, natural, or intentional contamination. It serves as a selective point inspection tool for bio-cleanness control and assessment of the decontamination efficiency, which is commonly quoted as “how clean is clean enough”.



The sensor operation is controlled by a Tablet PC.

FEATURES

- Non-contact point detection
- Decontamination control
- Instant response
- Robust design for on-site use
- No sampling, no consumables
- WiFi data logging
- Network integration option

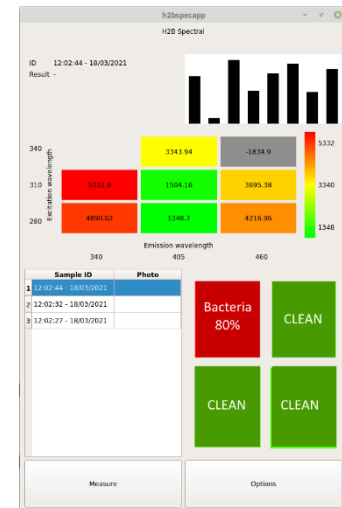


Figure 1. Data sampling from a vertical surface.

Figure 2. Screenshot of the H2B-Spectral™ software.

The device does a multispectral surface inspection in a second and depicts the measured result as a color-coded matrix (Figure 2 upper part). The spectral pattern recognition technique allows distinguishing the type of microbiological contamination on surfaces. The inspection data are transferred to a Tablet PC for storage and data analysis. The device can operate a full working day on battery, and the recharge is done with a docking station. Big buttons and a high-contrast OLED screen enable using the device even with thick gloves and a hazmat suit.

The Specification:

Parameter	Value
Conditions of operations	Hand-held, on-site
Response Time, typical	1 sec
Type of measurement	Non-contact
Data sampling	Point detection
Light source	UV LED
Detection spectral range	UV-VIS
Object pre-treatment	Not required
Data transmission	Via WiFi connection to PC
Battery life	8 hours
Dimensions (L × W × H)	33 cm x 15 cm x 7 cm
Weight	820 g