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PestWest FLYING INSECT SCIENCE

NEW
BED BUG LIFE CYCLE

CSI Kit

CONTRASTING SPECIMEN INSPECTION KIT

INNOVATION // QUALITY // POWER

ENHANCE YOUR BED BUG INSPECTION METHODS USING FORENSIC TECHNOLOGY!

PestWest ENVIRONMENTAL
PestWest RECYCLES
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PestWest EDGEucation

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The exclusive PestWest Contrasting Specimen Inspection (CSI) kit puts bed bug inspections in a whole new light. This technology is brought to you from the forensic detection industry. The CSI lamp within the kit provides specialty blue light used in conjunction with orange contrast glasses to fluoresce or contrast proteins from bed bugs, blood, feces, caste skins, and eggs. Using a forensic blue light source to see hidden objects in a different way than under normal light gives Inspectors a new perspective and a visual difference between the common and cutting edge.

CSI KIT TECHNOLOGY

The CSI lamp within the kit provides 455 nm blue light used in conjunction with orange contrast glasses to fluoresce or contrast proteins from bed bugs, blood, feces, cast skins, and bed bug eggs (which especially fluoresce). Additionally, the CSI Kit will greatly enhance your rodent control protocols (detection of rodent urine as well as baits and droppings containing fluoescent additives).

FLUORESCENCE

Fluorescence occurs when an orbital electron of a molecule, atom, or nanostructure relaxes its ground state by emitting a photon of light (photon bounce) after being excited to a higher state by some type of energy.

BLUE LIGHT

The blue light you see crime scene investigators (CSI) shining on the crime scene while wearing orange glasses is not some sort of science psychedelic party. Investigators are using a forensic blue light source to see hidden objects in a different way than under normal light. Normal light or white light is actually a combination of all the different colors of the visible spectrum. A forensic light source is merely separating out a certain color such as blue light. This allows only one wavelength of light to be represented. Blue light has a wavelength of around 450 nm in the electromagnetic spectrum. When blue light is shined upon a surface, the surface can absorb, reflect, or transmit the light. Light that is shined upon an object is absorbed by that material and then re-emitted at a different wavelength (called a Stoke's shift), which is known as fluorescence.

When an object fluoresces, the light is re-emitted at both a lower energy state and longer wavelength. With blue light as the incident light, the re-emitted fluorescence occurs in the orange spectrum. Therefore investigators wear orange glasses in order to see the faint fluorescence. All the blue light must be prevented from entering the investigator's eyes because it would dilute out the faint fluorescence. Orange glasses will only allow orange light to reach their eyes so the fluorescence is observed. Many body fluids, organic materials, and fibers will fluoresce under a forensic light source. Materials such as blood, gunshot residue, and some inks will absorb blue light to appear dark or even black. These substances are often not observable to the naked eye, especially if the surface has been wiped or cleaned. The forensic blue light is a good starting point in a crime scene search or a pest management professional's bed bug inspection because it is portable, reliable, quick, and non-destructive of the surface or evidence.

BED BUG LIFE CYCLE AT A GLANCE

PestWest's new and exclusive Bed Bug Specimen Life Cycle ID Disc provides actual eggs, nymphs, and both female and male adults at a glance. The perfect real-life reference tool for more effective inspections as well as enhanced communication with clients and customers. The optimal attention-gathering tool during sales and educational presentations, the ID disk provides an unprecedented visual illustration of the bed bug life cycle.

PRODUCTIVITY & ACCURACY

The CSI Kit enables you to add a new contrast dimension to bed bug inspections to both intensify the inspection process and make efficient use of your time.

PROCEDURE

Darken the room or area and shine the light at various surfaces where physical evidence might be found. Wear glasses? No problem. The orange "goggles/contrast glasses" fit neatly and securely OVER your current eye glasses. Take your time and inspect methodically from left to right, up and down, or vice versa, but don't skip around. Document your findings and then determine the appropriate treatment strategy.

Note: Hold the blue light lamp 18 to 24 inches from the inspected surface.

MARKET YOURSELF

The CSI Kit adds additional value to your services as your customers have not seen a kit of this type used in structural pest management. From a marketing perspective, use this kit WITH your customers present. This will present a visual point of differentiation between you (and/or your company) and others using lesser tools to complete the job. At times, your customers (especially hotel managers & housekeeping supervisors) may want to see things for themselves using your kit.

INSPECT

Inspect the bed (mattress, box-springs, and frame).

Inspect areas adjacent to the bed.

DETECT

Detect bed bug harborages on and under the bed.

Detect bed bug harborages adjacent to the bed.

MONITOR

Monitor at critical interception zones between bed bugs and the host.

Monitor bed bug activity during your prevention program.

OFFERED BY:

GOT A SMART PHONE?
SCAN THE QR CODE FOR ADDITIONAL INFORMATION.

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