



Clean Enclosure for Microscopes

PureBox SHIRAITO®

Clean Enclosure for Microscopes

Have you experienced Contamination during imaging?

The same **Cleanness** level as a clean bench
Equivalent performance as ISO 14644-1 Level 5 (Unit: Particle/m)
Supports clean operation during imaging.

Great **Expandability**
Optical devices (e.g. confocal unit), which cannot be installed inside a clean bench, can be installed on PureBox.

Laminar flow temperature regulation
Applying filtered warm-air blowing from above and clean bench forced-air circulation function together, it keeps optimal temperature condition inside PureBox.

Smart design
The anti-vibration heaters are built in the system which prevents having multiple air-ducts and keeps your working area smart.

Suitable when

Transplant the sample after the imaging

Wish to conduct contamination-free media exchange & drug delivery during the imaging

Image the sample after cell-manipulation at clean bench

Wish to run time-lapse imaging without antibiotics

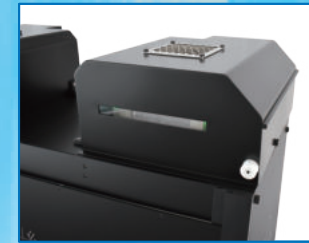
Not satisfied with the cleanness of current microscope environment

For temperature sensitive sample imaging



FFU with Punching Heater

Fan Filter Unit with HEPA filter.
Trap 99.97% of particles more than 0.3 μm.

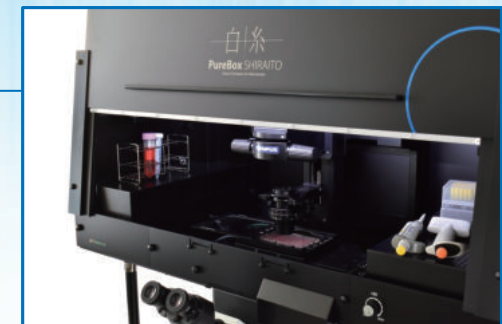


Motion LED detector

Turn ON and OFF the LED light with motion sensor.
You do not need to touch the switch during experiments.

Large working space

Similar operation of a clean bench can be done on a microscope.



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Clean Enclosure for Microscope



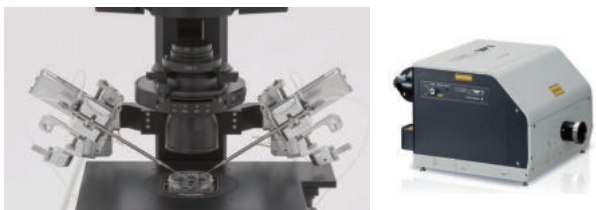
As good cleanness as Clean bench (ISO Class 5)

	Maximum particles/m ³			
	Size of the particles			
	0.3 μm	0.5 μm	1.0 μm	5.0 μm
ISO Class 5	10,200	3,520	832	29
PureBox SHIRAITO®	220	1	0	0

Tokai Hit Evaluation condition:
 Detective sensor: BM300C (from Sharp Life science)
 Evaluation Time: 24 hours
 *Measuring area: Around stage and shelves
 *This data is just for reference. It is not assured of the same performance.

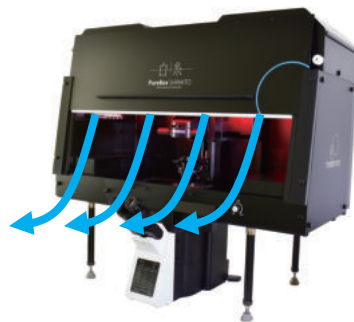
• Keep microscope compatibility

Optical devices such as confocal unit which cannot be installed inside a clean bench can be installed on PureBox.



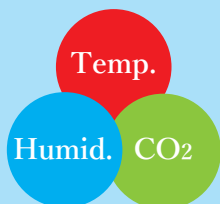
• Air-Curtain function

The air flow is increased when the front door is opened. It prevents the dust/particles getting into the box.



• Combination with Stage Top Incubator®

Combination use with Stage Top Incubator® would realize not only the cleanness but also the essential factors for cell culture.



Comparison

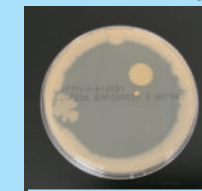
- Dish with agar media left at:
 a) Inside PureBox SHIRAITO®
 b) Outside PureBox SHIRAITO® for 30 minutes without lid on and cultured for 48 hours.

Inside PureBox SHIRAITO®



No contamination

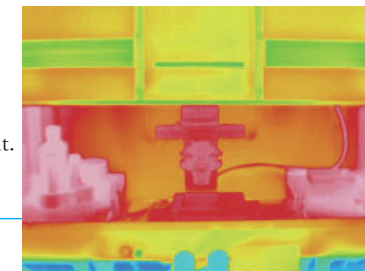
Outside PureBox SHIRAITO®



Contamination

• Laminar flow temperature regulation

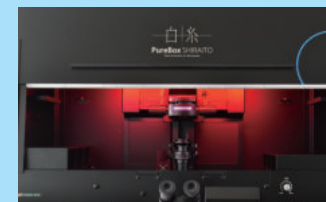
With laminar flow regulation and forced circulation of the environment inside PureBox, it keeps the optimal and uniform condition of environment.



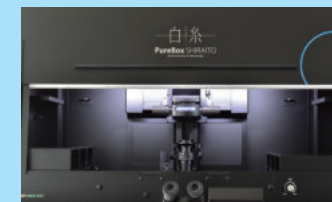
PureBox SHIRAITO®
 Thermo image inside the box.

• Switchable LED light

Switch to change LED to long-wavelength light (Red) depending on the sample and applications.



Red LED



White LED



TOKAI HIT Co., Ltd.

306-1, Gendoji-cho, Fujinomiya-shi,
 TEL : +81 544 246699 FAX : +81 544 246641
 E-mail : solution@tokaihit.com
 Website : www.tokaihit.com

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