

Inverted All-in-One Fluorescence Microscope

LINEUP GUIDE

- Entry-level fluorescence microscope with motorized operation and high-sensitivity CCD **Basic System**
- Wide area navigation, high-resolution image stitching, Z-stack, and multi-point image capture Multi-dimensional Observation/Capture System
- Structured illumination captures high-contrast images equivalent to confocal microscopes ${\bf Optical\ Sectioning\ System}$

- Long-term, live-cell imaging using incubation Live-cell Incubation System



Basic System

Entry-level fluorescence microscope with advanced functions

- > Built-in darkroom
- > Standard equipped with a fully-motorized operation system
- > Large motorized stage supports observation of entire microtiter plates

> Supports fluorescence, bright field, and phase-contrast images > High-sensitivity cooled monochrome/color CCD camera

Basic Concept

Built-in darkroom



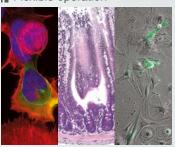
Flexible fluorescence observation wherever it's needed

Space saving



Footprint: 340 × 496 mm 13.39" × 19.53"

Flexible operation

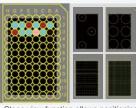


Single unit supports fluorescence, bright field, and phase-contrast images

Substantial basic performance

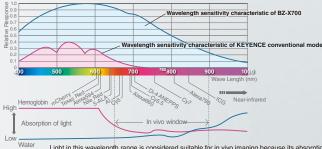
Fully automated system with a large motorized stage supports the observation of entire microtiter plates





Stage view function allows positioning based on a map image representing various sample wells

High sensitivity cooled monochrome camera

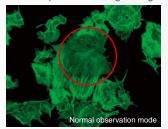


Light in this wavelength range is considered suitable for in vivo imaging because its absorption by substances such as hemoglobin and water is low and it has superior tissue permeation.

KEYENCE original functions

Low photobleach mode

Reduces photobleaching during field-of-view adjustment



Due to photobleaching during observation at high resolution, part of the image is dark and the brightness is not distributed evenly.

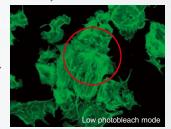


Image with less photobleaching and uniform brightness

High-speed auto focus

Quick focus adjustment with a single click

Capture condition reproduction function

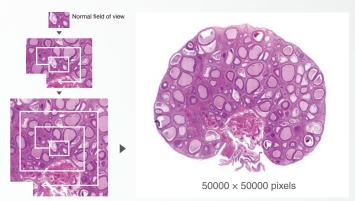
The settings can be read from a captured image, including the lens used, filter, exposure time, position coordinates, image correction conditions, and so on, so the image can be reproduced.

Quick full focus

An image is automatically scanned in the Z direction with a single click to compose a fully-focused image.

Multi-dimensional Observation/Capture System Multi-dimensional observation/capture

Wide-field, ultra high-resolution images can be captured in full focus.



Automatic capture function for extremely efficient screening

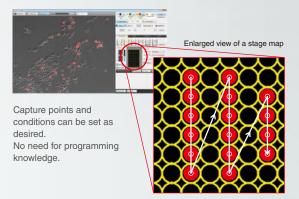
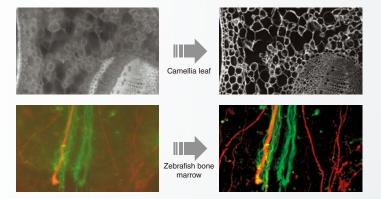


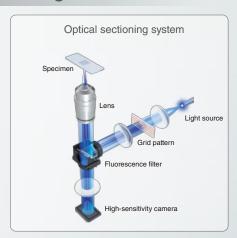
Image without fluorescence blurring achieved with a laser-free optical system

Optical Sectioning System

Anyone can capture clear images without mastering special techniques.



- Optical sectioning
- Multi-dimensional observation/capture



Capture everything including the observation area, target, and focus

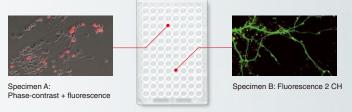
Live-cell Incubation System

- Live cell imaging
- Multi-dimensional observation/capture

Chamber for CO₂ concentration/temperature control included



Capture conditions can be set differently for each capture point.



Automatic focus adjustment depending on the change in the specimen

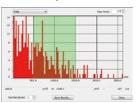
Extracts points with the best focus based on captured images



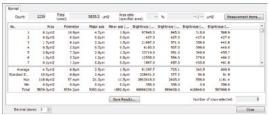
Wide range of applications for enabling advanced analysis

Hybrid Cell Count

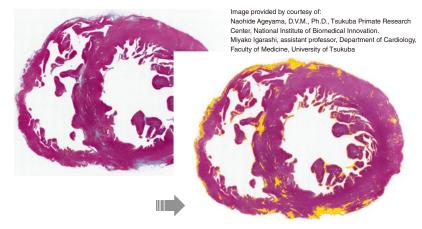
High-precision measurement can be performed on various specimens.



- Circumference · Longest diameter
- Shortest diameter
- Brightness (INT/MAX/MIN/AVF)
- RGB brightness (INT/MAX/MIN/AVE)
- Feret diameter (X/Y) • Count
- · Area ratio, etc

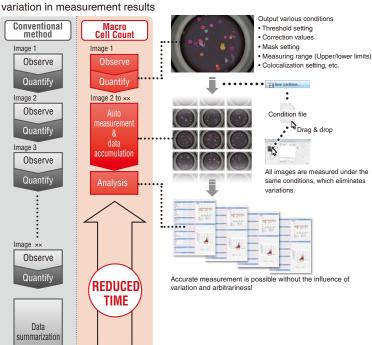


Measurement of biventricular fibrosis of a crab-eating macaque



Macro Cell Count

Enables quick, high-accuracy quantification while eliminating



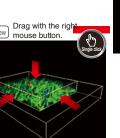
3D Imaging

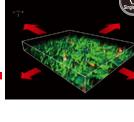


From Z-stack images, a 3D image can be created with a single click.

Spatial localization can be analyzed and determined accurately.

Zoom in/out Mouse wheel





For more information, visit our website at:

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