

Micromanipulation with Digital Microscopes

Observe a clear image with wide depth of field and quantify the entire workflow from measuring to analysis while easy to use for any users. Keyence digital microscope with their highly specialized digital technology shows us micro-world taking a different approach from conventional microscopes.

When one succeeds in seeing a sample, then would want to communicate with it. For example, the one would want to provide it with some chemical, another one would want to make a mark on it to see what will happen, another one would want to extract a part of it. We had a chance to talk with a customer using a Keyence digital microscope and experienced a customized mounting adaptor to mount our micromanipulators.

Example: Micromanipulation System for Pick-up

		
<p>VHX-700F Digital Microscope</p> <p>※For inquiries of digital microscopes, please contact Keyence.</p>	<p>VH-S5 Vibration-resistant, high-magnification observation system +Micromanipulation system for pick-up.</p> <ul style="list-style-type: none"> ● Mounting Adaptor for VH-S5 ● MN-4 Coarse Manipulator ● MMO-203 Fine Micromanipulator ● HI-7 Pipette Holder 	<p>VH-S30F/30B Free-angle observation system +Micromanipulation system for pick-up.</p> <ul style="list-style-type: none"> ● Mounting Adaptor for VH-S30 ● MN-4 Coarse Manipulator ● MMO-203 Fine Micromanipulator ● HI-7 Pipette holder

To pick up a particle, a glass needle (which wears static) is used. MN-4 (Coarse Manipulator) is used to manipulate the glass needle close to a sample, then MMO-203 (Oil-hydraulic Fine Micromanipulator) is used to collect the particle without the trouble of hand vibration.

When the particle can be sucked or aspirated, the particle can be also collected with the aid of an oil microinjector or a pneumatic microinjector.

By using a microinjector and a glass pipette, puffing and dropping chemical can be also possible.

As such, we can custom-make a mounting adaptor for new microscopes and customized microscopes to mount Narishige micromanipulators.

“I want to communicate interactively with micro-world now I can only see”, for such inquiries, please contact Narishige.

If you have any questions or need further information, please contact us.

Narishige Group Website

URL: <http://narishige-group.com>