

## Useful Functions of the Hydraulic Joystick Controller

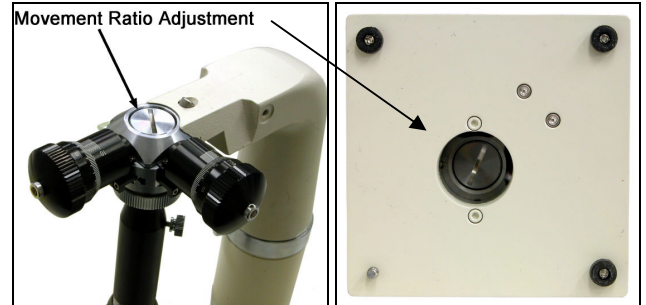
Are you aware of the helpful functions equipped with the joystick controller? This issue will deal with the joystick controller that allows for a variety of adjustments.

### ■ Movement Ratio Adjustment of the Joystick

Have you ever found the joystick movement in the X-Y direction being limited? During manufacturing the joystick is adjusted to cover the entire field of view under the total magnification of x400. Therefore, if it is used under x100 or x200, you will notice that the working range is not large enough to cover the entire field of view.

In such cases, you can adjust the movement ratio by turning the coin-slotted "movement ratio adjustment" groove on top of the controller.

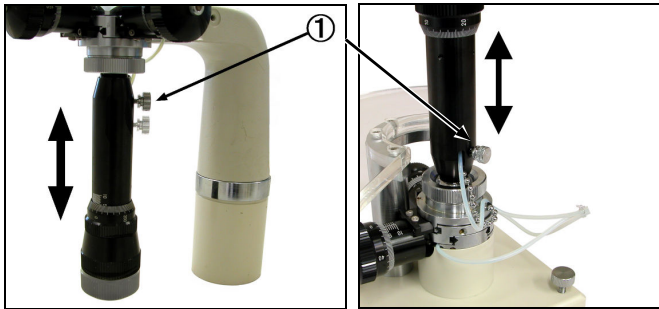
- Turning the movement ratio adjustment slot clockwise reduces the movement controlled by the operation of the joystick.
- Turning the movement ratio adjustment slot counterclockwise increases the movement controlled by the operation of the joystick.



Hanging type  
(MMO-202ND)

Upright Type  
(MO-202U)

### ■ Vertical Adjustment of the Joystick



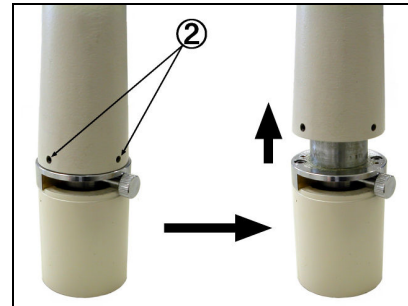
Hanging type  
(MMO-202ND)

Upright Type  
(MO-202U)

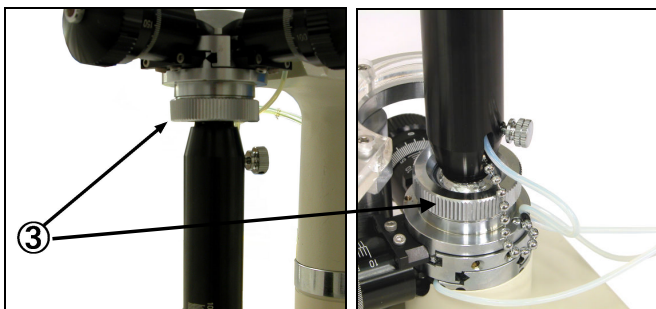
In operating the joystick and the Z-axis control knob, the vertical position of the joystick differs depending on the size of an operator's hand. You can adjust the height of the joystick to an easy-to-operate position by loosening the height adjustment knob ① on the joystick.

**In the event further height adjustment is required:**

Loosening the two screws ② or knobs on the controller allows vertical adjustment of the whole controller. (See photo at right.)



### ■ Tension Adjustment of the Joystick



Hanging type  
(MMO-202ND)

Upright Type  
(MO-202U)

When operating the joystick, users have their own preferences. By turning the tension adjustment knob ③, the joystick tension can be adjusted to better meet the user's preferences.

- Turning the tension adjustment knob clockwise gives the joystick a smoother feel.
- Turning the tension adjustment knob counterclockwise gives the joystick a tighter feel.

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