

# In-Line Polarization Controller User's guide

Our new In-line polarization controller is an all fiber product that is developed for fiber optic systems, where small size is especially needed. The device is designed in small package having dimensions of less than 2cmx2cmx12cm. Our polarization controller does not squeeze fiber, which could make damage to the fiber jacket. This model is pigtailed with conventional communication fiber and can be easily installed in systems. Our In-line polarization controller provides easy installation and precision control of polarization state. The principle of the polarization controller is based on that two quarter wave plates can transform an arbitrary input polarization state to another. The quarter wave plate can be made by using fiber having birefringence. This device has two independently controllable rotators.

## Brief Instructions

Remember to Unlock the holding screws before rotating the wave plates.

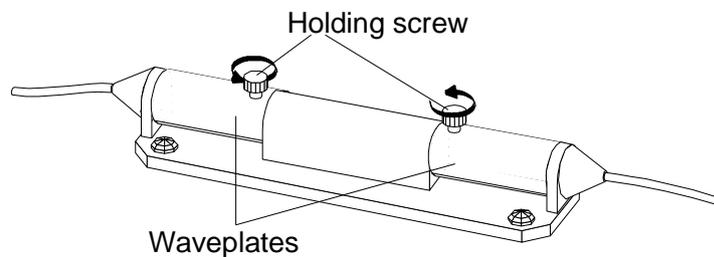


Figure 1.

Rotate the wave plates to adjust the polarization state.

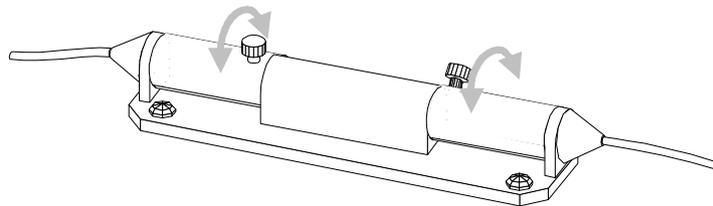


Figure 2.

Tighten the holding screw if you want to lock the wave plates in place. **DO NOT** rotate the wave plates when those are locked with screw.

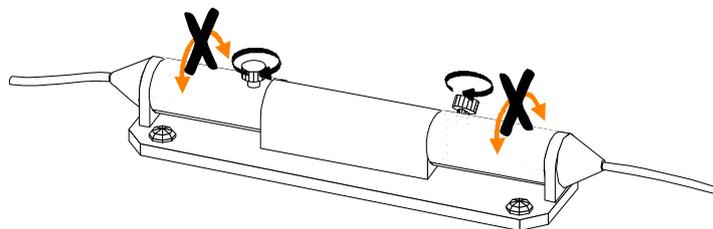


Figure 3