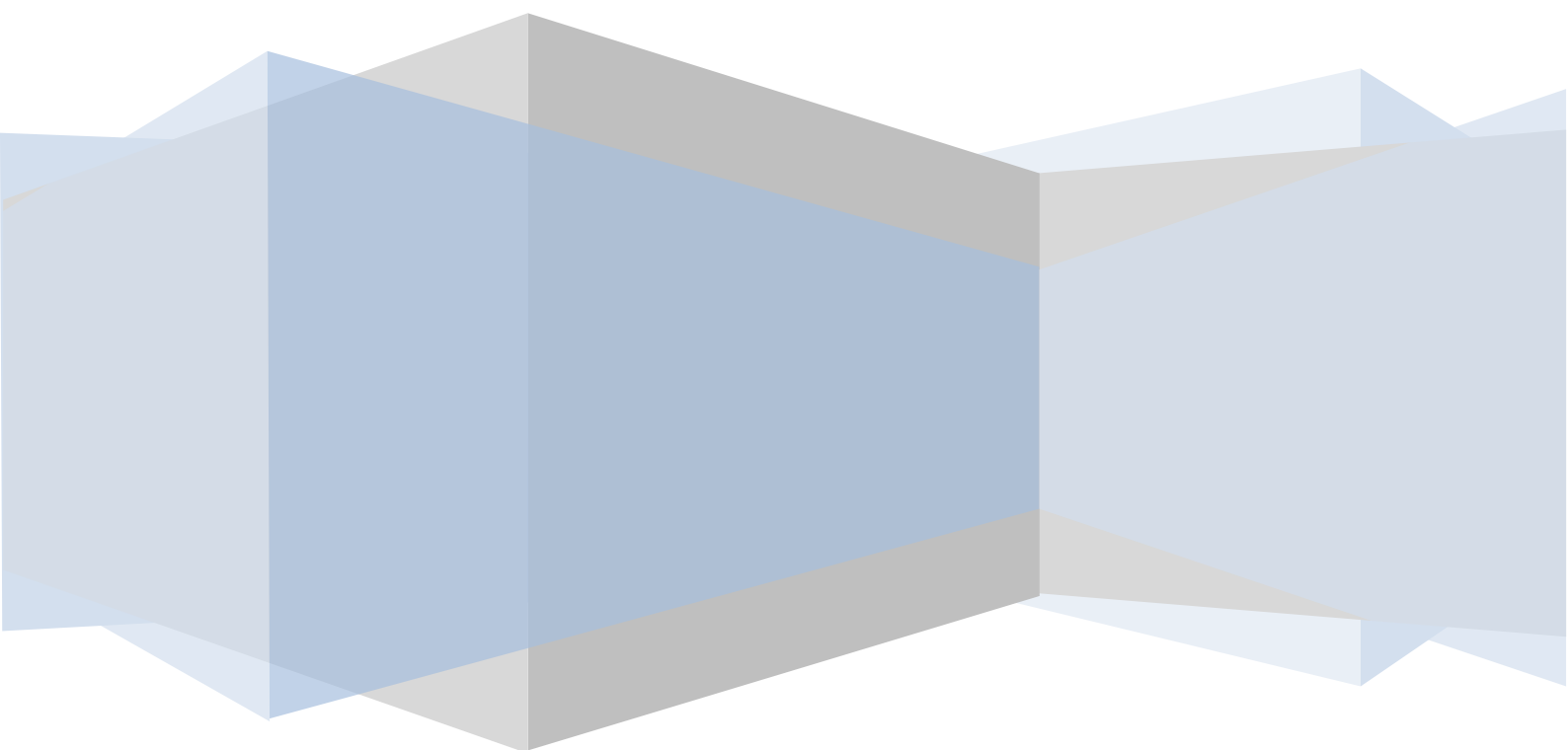


Optics Focus Instruments Co., Ltd.

Installation Guide

LabVIEW example for ActiveX control 7ISWU

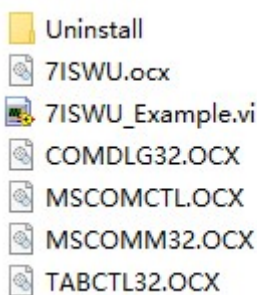


1. Installation.

Please right click the installation file setup.exe and run it as administrator. It will install and register all necessary ActiveX control files in your computer and create a shortcut for 7ISWU_Example.vi on your desktop. The 7ISWU_Example.vi is not compatible with LabVIEW 64 bits.

2. Use the ActiveX object in new vi file.

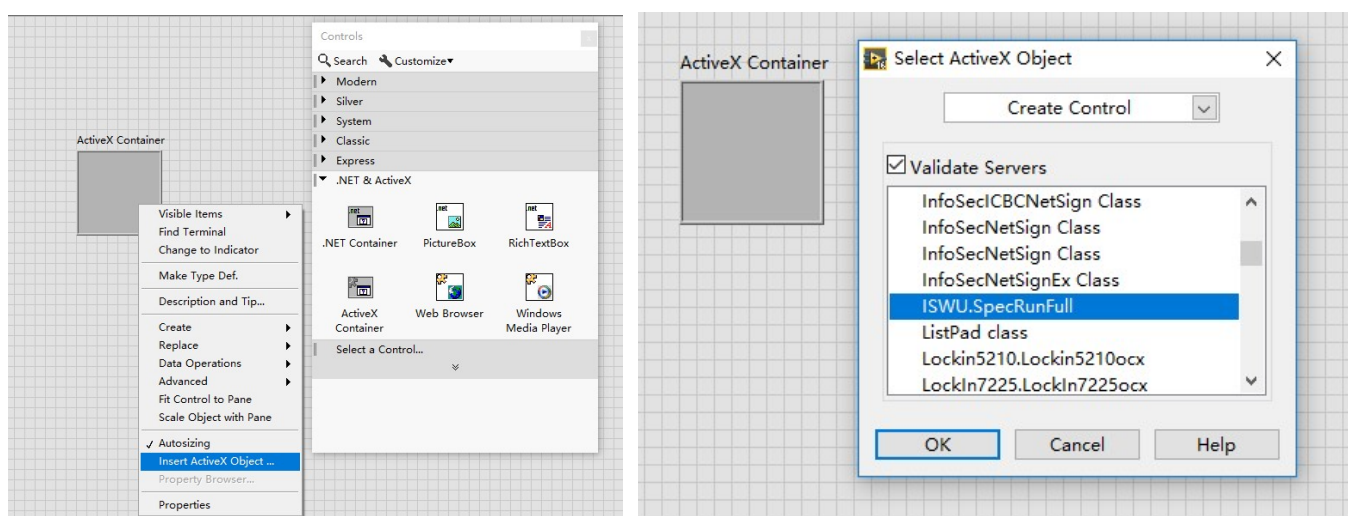
The following folders and files will be installed in your computer.



7ISWU.ocx is the core ActiveX control file.

7ISWU_Example.vi is just an example file for how to use 7ISWU.ocx in LabView.

You can also use it in a new .vi file to make your own program. Please insert an ActiveX Container, and then insert ActiveX object. Please select the desired ActiveX object (**ISWU.SpecRunFull**) from the list.



Note: If 'ISWU.SpecRunFull' is not in the list, the 7ISWU.ocx file may not be registered successfully on the system. You can register 7ISWU.ocx file by selecting Start»Run as administrator and typing in regsvr32 followed by the full path to the OCX file. (for example, regsvr32 c:\ 7ISWU.ocx)

3. Use the example for LabVIEW.

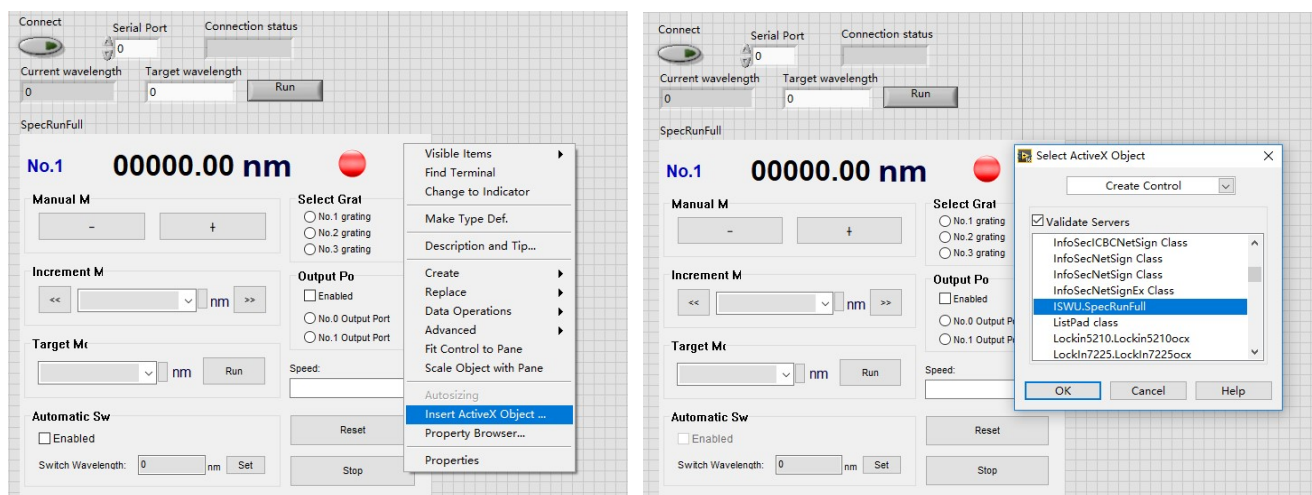
3.1 Connect instrument

Connect the monochromator/spectrometer to your computer firstly, and then turn on the power of monochromator/spectrometer.

Open 7ISWU_Example.vi in LabVIEW. You may need to insert the ActiveX Object again when it's running at first time. Right click ActiveX container, and select insert ActiveX object. Then select **ISWU.SpecRunFull** from the list.

The 7ISWU_Example.vi is only an example to show how to use our ActiveX object in LabVIEW.

It doesn't include the full function which is included in our software. Please make program for other function by yourself.



3.2 Operation:

- (1) **Connect:** connect the instrument and show the connection status. If the connection succeeds, the connect light will be green, otherwise it will be grey.
- (2) **Serial Port:** set the real serial port number. Please set the serial port before connecting. The value range is 1 to 16.
- (3) **Connection Status:** show the connection status.
- (4) **Current wavelength:** show the real-time wavelength after successful connection, unit is nm.
- (5) **Target wavelength:** set the target wavelength after successful connection, unit is nm.
- (6) **Run:** change the output wavelength according to the setting, unit is nm.
- (7) **Manual Mode:** Press '+' button to increase the wavelength and Press '-' button to decrease wavelength. When the left mouse button is released, the monochromator/spectrometer will stop immediately.
- (8) **Increment Mode:** Input a relative value of wavelength. Then click '<<' button to reduce the wavelength; click '>>' button to increase the wavelength. The value must be a positive number.
- (9) **Target Mode:** Select or input the wavelength in the drop-down list. Then click 'Run' button, the monochromator/spectrometer will run to the target wavelength.
- (10) **Automatic Switch:** It's valid only for the monochromator/spectrometer with motorized dual output ports. It's used to switch the output ports automatically. It's available after the Output Ports option is checked.
- (11) **Select Grating:** Select the needed grating.
- (12) **Output Ports:** It's valid only for the monochromator/spectrometer with motorized dual output ports. Select the output port. NO.0 output port is the axial exit and NO.1 output is the lateral exit.
- (13) **Speed:** Change the speed rate. The value range is 0 to 255. It doesn't have unit.
- (14) **Reset:** Clicking this button will reset the spectrometer. It means the instrument will run to the initial position of No.1 grating. If the filter wheel is used, it will automatically get back to the corresponding filter. If the instrument has motorized dual output ports and the output ports are enabled, the output ports will be changed to the corresponding output ports of the initial wavelength. If the automatic switching wavelength is not set, the output port will be NO.0 port.
- (15) **Stop:** When the instrument is changing wavelength, clicking this button will stop it running. But returning zero and changing grating won't be stopped.