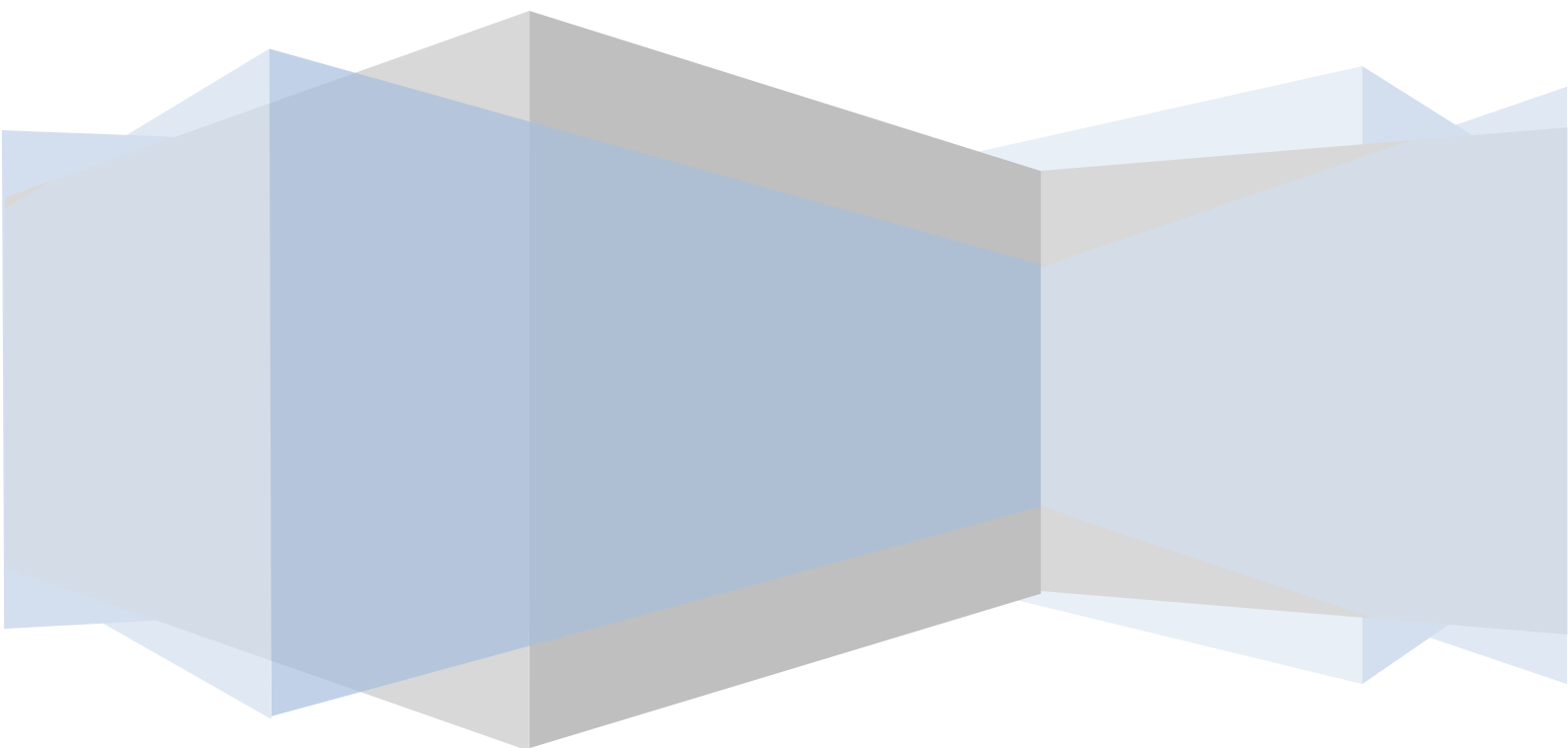


Optics Focus Instruments Co., Ltd.

Installation Guide

LabVIEW example for ActiveX control 7IMSU

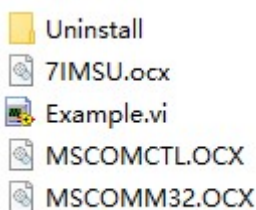


1. Installation.

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 Example.vi on your desktop. The Example.vi is not compatible with LabVIEW 64 bits.

2. Use the ActiveX object in new vi file.

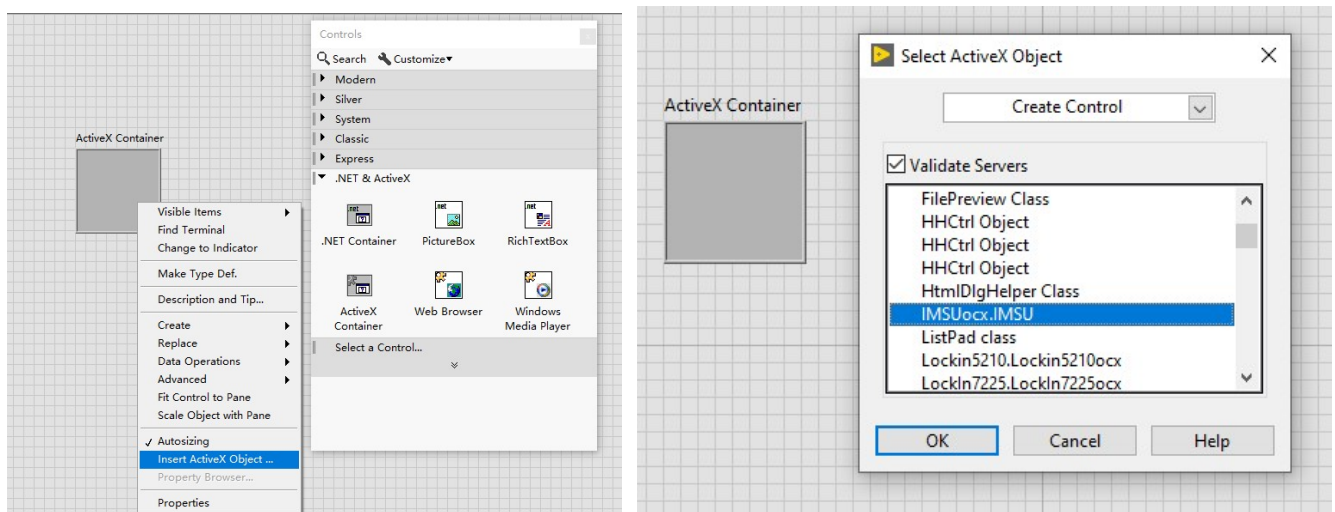
The following folders and files will be installed in your computer.



7IMSU.ocx is the core ActiveX control file.

Example.vi is just an example file for how to use 7IMSU.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 (**IMSUocx.IMSU**) from the list.



Note: If 'IMSUocx.IMSU' is not in the list, the 7IMSU.ocx file may not be registered successfully on the system. You can register 7IMSU.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:\ 7IMSU.ocx)

3. Use the example for LabVIEW.

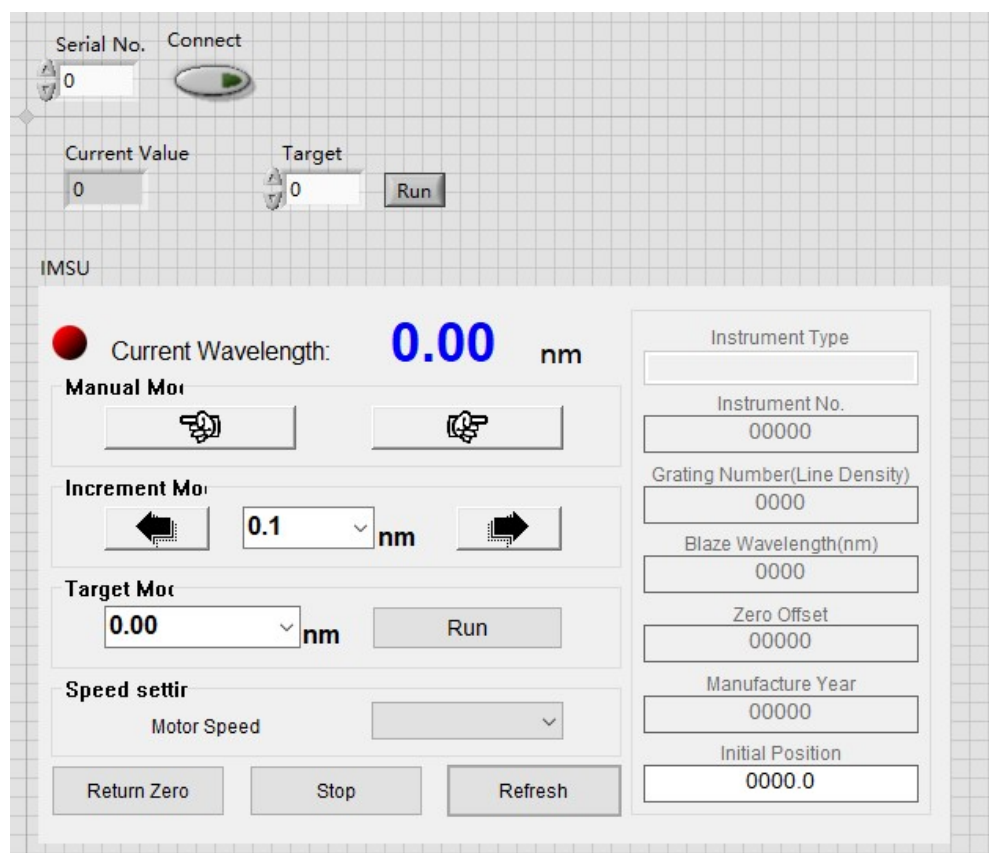
3.1 Connect instrument

Connect the monochromator to your computer firstly, and then turn on the monochromator.





Open 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 IMSUocx.IMSU from the list.

The 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 to the monochromator and show the connection status. If the monochromator is successfully connected, 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 from 1 to 16.
- (3) **Current wavelength:** show the real-time wavelength after successful connection, unit is nm.
- (4) **Target wavelength:** set the target wavelength after successful connection, unit is nm.
- (5) **Run:** change the output wavelength according to the setting, unit is nm.
- (6) **Manual Mode:** Press  button to increase the wavelength and Press  button to decrease wavelength. When the left mouse button is released, the monochromator will stop immediately.
- (7) **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.
- (8) **Target Mode:** Select or input the wavelength in the drop-down list. Then click 'Run' button, the monochromator will run to the target wavelength.
- (9) **Speed:** Change the speed rate. The value range is from 0 to 255. It doesn't have a unit.
- (10) **Return Zero:** Clicking this button will reset the monochromator. It means the monochromator will run to the initial position. If the filter wheel is used, it will automatically get back to the corresponding filter. (reference to the Filter Wheel Setting).
- (11) **Stop:** When the monochromator is changing wavelength, clicking this button will stop it running. But returning zero won't be stopped.
- (12) **Refresh:** Refresh the information on the right.