Acousto-Optic Tunable Filter system
AOTF-Pro
Instruction Manual

Please read this instruction carefully, before you operate the equipment
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1. **Installation for SC-Pro**

Please consult to the SC-PRO Operation Manual.

2. **Installation for AOTF-Pro**

<table>
<thead>
<tr>
<th>RF1</th>
<th>RF2</th>
</tr>
</thead>
<tbody>
<tr>
<td>430nm~770nm</td>
<td>770nm~1450nm</td>
</tr>
</tbody>
</table>
3、Connect the AOTF-Pro and Driver components

Cautions:
Please make sure RF cable has been installed between the driver and AOTF-Pro before the Driver’s power supplied.

<table>
<thead>
<tr>
<th>Power (read the note to connect the power)</th>
<th>RF Cable(read the note to connect the RF cable )</th>
<th>USB Cable</th>
<th>Single mode PCF fiber</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Power" /></td>
<td><img src="image2.png" alt="RF Cable" /></td>
<td><img src="image3.png" alt="USB Cable" /></td>
<td><img src="image4.png" alt="Single mode PCF fiber" /></td>
</tr>
</tbody>
</table>

4、Installation of software and USB driver

A. Open the USB disc, find the AOTF-Pro software as follow:

- 1.USB Driver
- 2.Software Driver
- 3.ACTF

B. Open "1.USB Driver"-->run the "1.setup.exe";

C. Open "2.SoftwareDriver"-->upzid"NILWCVIRTE2009P1.zip"-->run the "NILWCVIRTE2009SP1.exe"
5. **Switch on the AOTF-Pro**

A. Connect the SC output collimator to the AOTF-Pro.

B. Connect the USB Cable between the computer and the Driver.

C. Connect the RF Cable between the AOTF-Pro’s RF and Driver.

D. Connect the power.

E. Switch on the SC-Pro and make sure it work well.
F. Ensure number of the AOTF-Pro, as the number “0007” for example.

Click the software as follow:

```
3.AOTF0007 → ACTF-RF1 → YS AOTFController.exe
```

G. Input the wavelength 532nm;

H. Input the RF power 60% (see the test report as a reference).

I. Click the “OFF” into “ON”.

J. Check with the AOTF-Pro output, and make sure the green light is output.

K. Click the “ON” into “OFF”, Plug the fiber into the AOTF-Pro.

L. Adjust the Fiberport until the light is output from the fiber.
Cautions:

If you have met the following questions, please check the software driver and power under working.

6、Switch Off the AOTF-Pro

Cautions:

Please make sure that driver has been connected to AOTF before operation, or driver would be broken.

A. Click “On” into “OFF”;  
B. Close the AOTF-Pro software window.  
C. Disconnect the driver power.  
D. Disconnect the RF Cable.  
E. switch of the SC source.

Cautions:

IF you want to change RF1 to RF2, please do in accordance with step A B C, and then change the RF.
7. Safety considerations

Cautions:

Watching output port of the laser system directly is forbidden at any time in any case!

A. Don’t place heavy objects on the AOTF-Pro;
B. Don’t put the output collimator toward people or any other reflective surface in case causing any personal injury;
C. Don’t check the AOTF-Pro directly with your eyes unless you sure the device is in power-down state while the AOTF-Pro may lunch infrared and ultraviolet light invisible but harmful to your eyes;
D. Be sure that the laser is out of power before checking the device;
E. Don’t stare at the emission port directly even you wear the laser protective glasses;
F. Don’t put any low ignition substance on the laser such as the flammable, explosive materials etc;
G. Be sure that the laser is placed in non-professionals can’t touch;
H. Don’t shoot the laser light to the glass since the normal glass with about 4% reflectivity and reflect light back to your eyes to cause harm;
I. Please take off your watch when you use the laser in case the watch surface reflecting light into your eyes;
J. Please use a detector or conversion film to locate the laser light since the light beyond 800nm is totally invisible;
K. We strongly recommend that you should wear a pair of laser goggles corresponding to laser in specific wavelength to protect your eyes when you using the laser for working;

L. We recommend that you wear a long suit of white clothes. For it will not burn your clothes then cause a fire even the laser irradiate to your body.

8、Contact Address

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