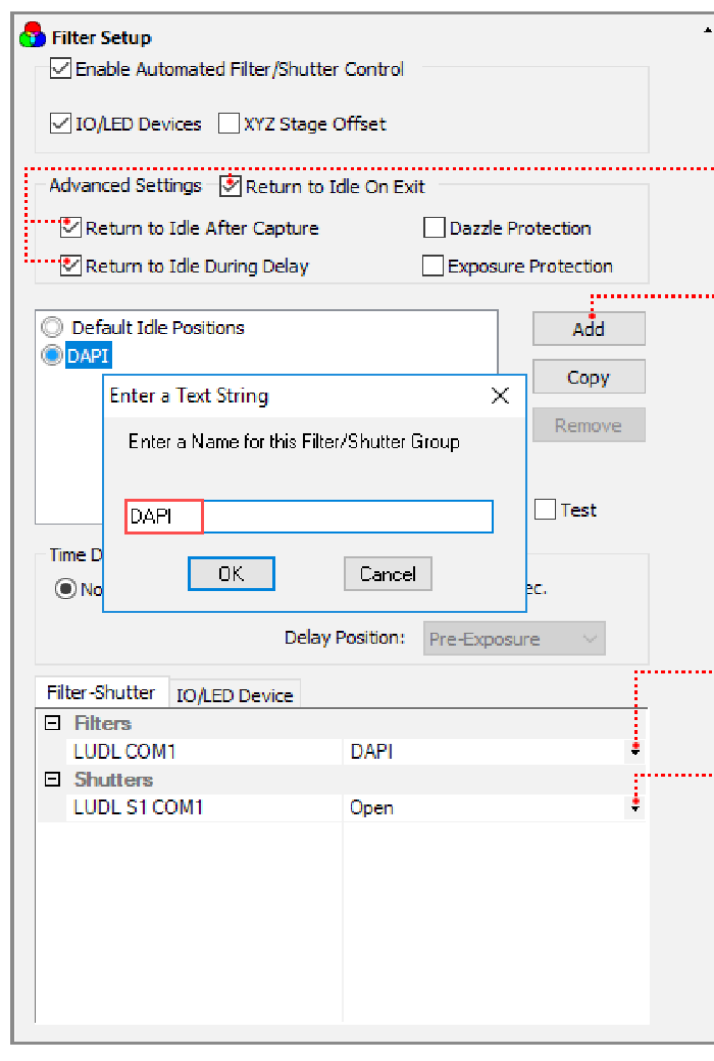


## FILTER SETUP

Once the filter device has been added to the profile it will need to be configured in the Filter Setup. The examples below outline the basic steps for configuring two commonly used filter devices, a filter wheel with a shutter and a Lambda DG-4.

### Filter Wheel and Shutter Setup

After the filter wheel and shutter have been added to the profile, go to Filter Setup in the Device pane and follow the instructions below.

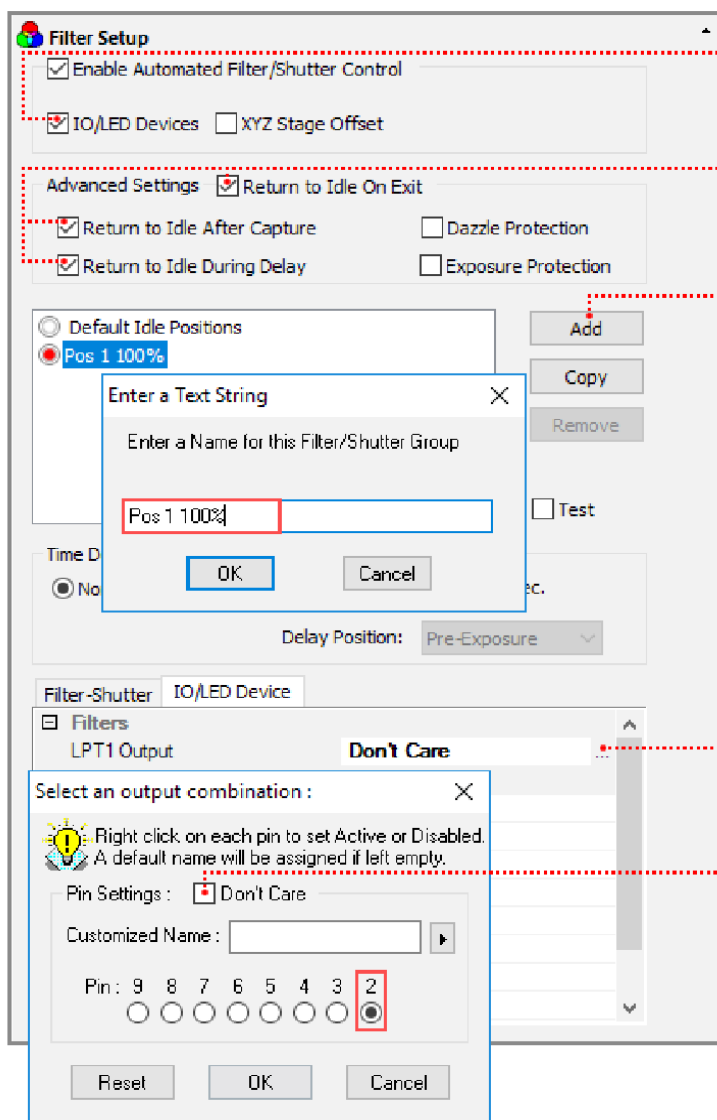


The screenshot shows the 'Filter Setup' dialog box with various settings. A red dashed line highlights the 'Advanced Settings' section, which includes checkboxes for 'Return to Idle On Exit', 'Return to Idle After Capture', 'Return to Idle During Delay', 'Dazzle Protection', and 'Exposure Protection'. A red dashed line also highlights the 'Add' button. A red dashed line points to the 'Enter a Text String' dialog box, which is open and shows 'DAPI' entered in the text field. A red dashed line points to the 'Filter-Shutter' tab, which is selected. A red dashed line points to the 'Filters' list, which contains 'LUDL COM1' and 'DAPI'. A red dashed line points to the 'Shutters' list, which contains 'LUDL S1 COM1' and 'Open'. A red dashed line points to the 'Delay Position' dropdown menu, which is set to 'Pre-Exposure'.

- 1 Enable Return to Idle Conditions**  
Select Return to Idle on Exit, After Capture and During Delay
- 2 Add Filter Group**  
Click Add, enter name and click OK
- 3 Enable Filter Settings**  
Right-click on the filter group that was just created and select a filter tint
- 4 Select Filter Position**  
Select the filter from the list
- 5 Define Shutter Setting**  
Select Open
- 6 Add Remaining Filters**  
Repeat the steps to add the remaining filters
- 7 Define Default Idle Settings**  
Select Default Idle Positions, under Filters select Don't Care and for Shutters select Closed

### Lambda DG-4 Filter Setup as an I/O Device

TTL can be used to control many types of devices. This example explains how to configure a Lambda DG-4 as an I/O Device controlled through the parallel port. In the Device pane go to Filter Setup and follow the instruction below.



- 1 Enable IO/LED Devices**  
Select IO/LED Devices
- 2 Enable Return to Idle Conditions**  
Select Return to Idle on Exit, After Capture and During Delay
- 3 Add Filter Group**  
Click Add, enter name and click OK
- 4 Enable Filter Settings**  
Right-click the filter group that was just created and select filter tint
- 5 Enable IO Pin Settings**  
Click ellipsis button
- 6 Define Pin Settings**  
Select Don't Care (un-check), enable Pin 2 and click OK
- 7 Add Remaining Filters**  
Repeat the steps to add the remaining filters and attenuations using the pin settings in the table below
- 8 Define Default Idle Pin Settings**  
Select Default Idle Positions, then for the pin settings select Don't Care (un-check) and click OK

| Filter Position | Attenuation |               |               |
|-----------------|-------------|---------------|---------------|
|                 | 100%        | 50%           | 33%           |
| 1               | Pin 2       | Pins 2 & 4    | Pins 2 & 5    |
| 2               | Pin 3       | Pins 3 & 4    | Pins 3 & 5    |
| 3               | Pins 2 & 3  | Pins 2, 3 & 4 | Pins 2, 3 & 5 |
| 4               | Pin 4       | Pin 5         | Pins 5 & 4    |