



UV ND Filter Array for C-mount Cameras

P/N SP90228

User Notes

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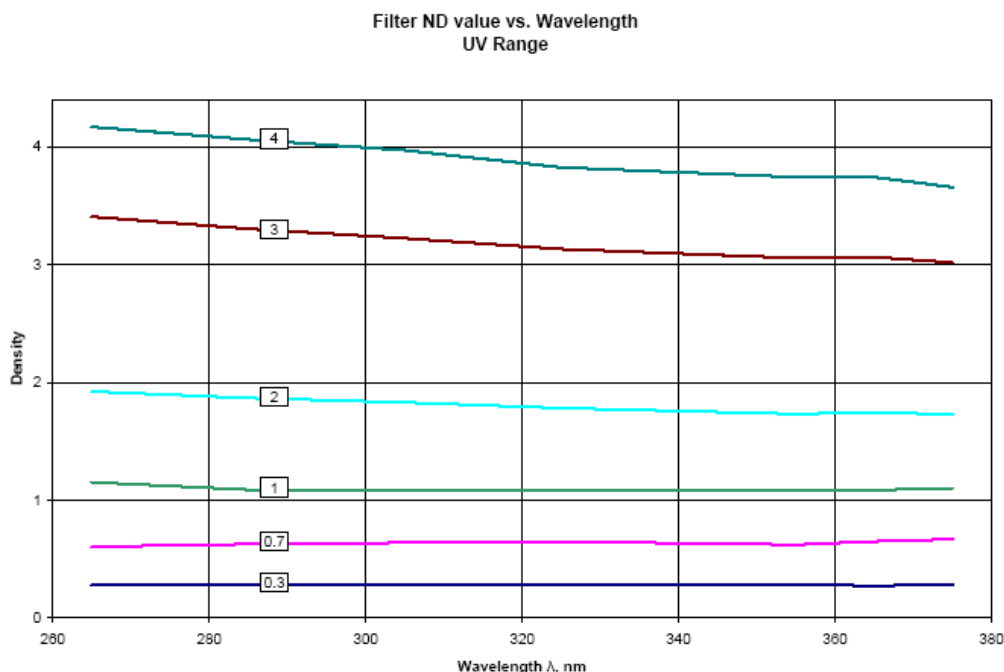
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This accessory can be used with any camera fitted with C-mount threads. Simply thread the attenuator assembly into the front of the camera and then slide the ND filter arrays to get the desired amount of attenuation. This device can be used with laser outputs from microwatts to Watts.

Operation:

1. Remove all the screw-on ND attenuators from the camera. Note: If you need to use additional attenuation then they can be used in combination with this device.
2. Screw the adapter ring on the variable attenuator all the way into the front of the camera. Since it is difficult to turn the ring by hand, it is easiest to tighten the fixing screw and then turn the entire attenuator around until the ring is screwed in tightly.
3. Now loosen the fixing screw, turn the adapter to the angle you want and retighten the screw.
4. You now can adjust the intensity using the ND filters. The optimum gain is near the lowest, and the optimum exposure duration is the nominal frame rate value. For pulsed lasers set the shutter period to slightly longer than the pulse width. NOTE: If using BeamGage, it is best to set the exposure duration and gain manually and not automatically.
5. Adjust the ND filter combination for optimum performance such that the beam intensity is just short of camera saturation (saturation shows a white color). With BeamGage, after the initial adjustment, you can return the operation back to use the automatic gain and exposure features.

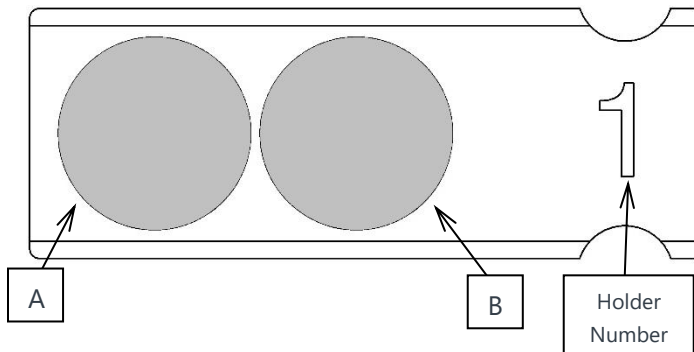
The following graph shows the range of attenuations available vs. wavelength.





Three filter holders are provided with two filters in each holder. Each filter in the holder provides for a different value of attenuation. To use, slide the desired holder into the housing slot. A click is felt when the filter is properly aligned with the beam. The holders provided will allow for attenuation of up to ND 6.

Filter Holder Number	ND Value Filter A	ND Value Filter B
1	0.3	0.7
2	1	2
3	3	4



For the latest Specifications

<https://www.ophiropt.com/laser--measurement/beam-profilers/products/Accessories/ND-Filters/UV-ND-Filters-Fixed-Attenuator-Set>