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**pollux**

Post Laureate



Reged:

04/01/04

Posts: 3442

Loc:

Vancouver, BC,  
Canada

📄 **MV filter shoot out - WO vs Thousand Oaks**

#297163 - 01/01/05 04:53 PM

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Hey guys:

First, happy new year! 😊

Since it's a holiday and many places are closed today therefore I can't go anywhere. I was a bit bored so I decided to take a few pictures to show you guys the head to head comparison to the MV filters I currently have (had) - William Optics VR-1 & Thousand Oaks' new MV.

Quite a few people are curious on how the new TO's MV filter work. As I mentioned before, this filter seems to work only on long refractors, short refractors don't really see the advantage with this filter. One good thing about this filter is that there's no apparent color shift like other MV filters.

On the other hand, William Optic's VR-1 is a lot more aggressive on violet removal (actually the MOST aggressive one, I have tested tons of MV filters). I think this filter was originally designed for their Magrez refractors which are very short focal length refractor. The filter does shift the color tone to yellow. Kind of annoying for daytime use but at night time this color shift is pretty much no an issue since human eyes are color blind in the dark anyway. Except when looking at moon which is so very bright.

I also have a Baader's Moon and Skyglow filter. I purchased it off Astromart for city light reduction. It actually works, works very well. I also did try using this filter with WO VR-1 to see if this can help shifting the color back to natural for daytime viewing. Good news! It works! Just like Fringe Killer and M&S being used together. The difference between the combo of Fringekiller+MS and VR1+MS is that the VR1 combo does a better job on removing the violet halo (based on my past experience with Fringe Killer).

For daytime viewing, the combo of VR-1 and MS really does make the image quality of my SV AT1010 (false color wise) so close to the 80ED I tried (roughly 85%).

Here're the pictures for your reference. If you have any questions feel free to ask 😊



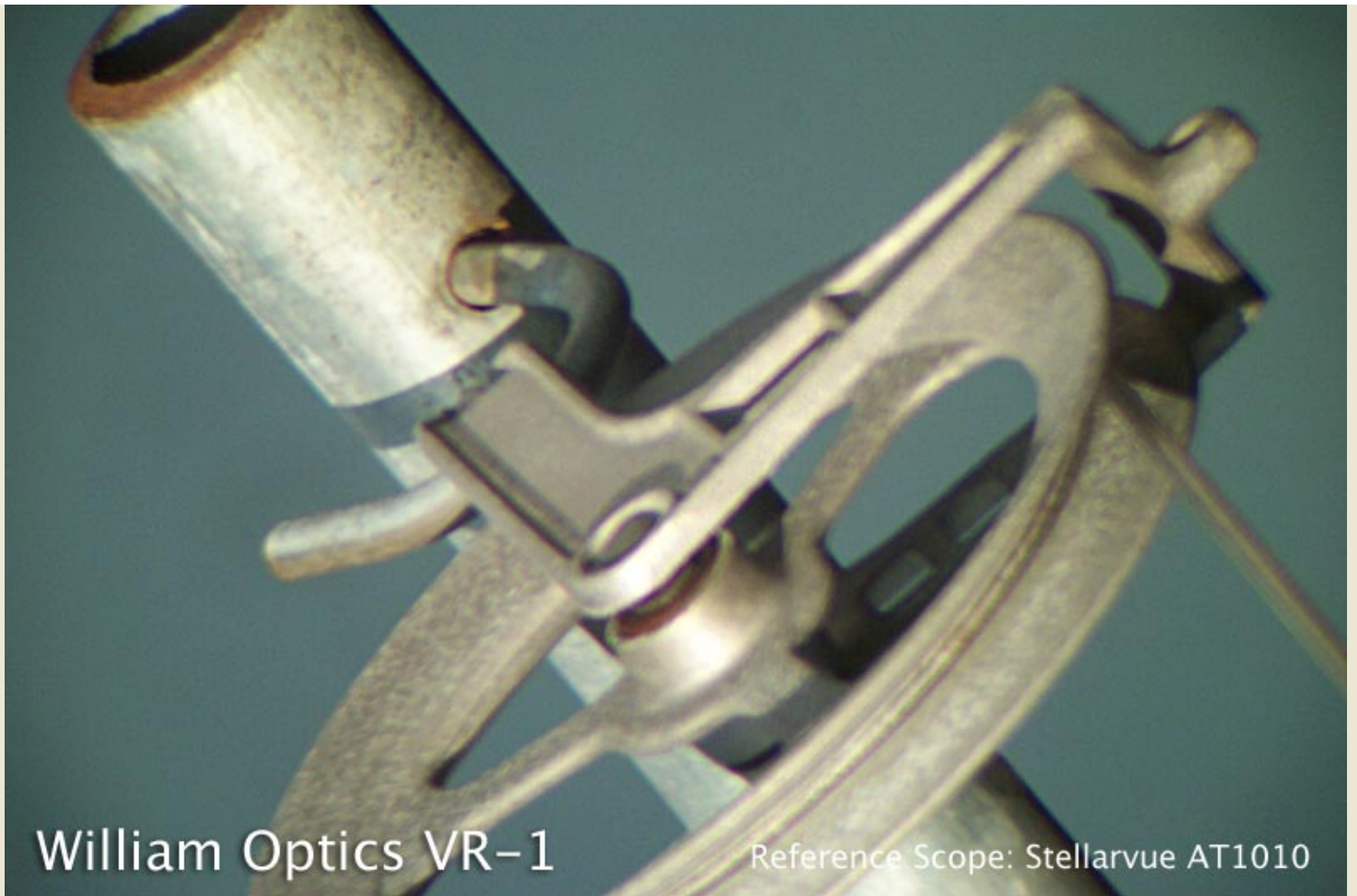
No Filter

Reference Scope: Stellarvue AT1010



Thousand Oaks MV filter

Reference Scope: Stellarvue AT1010



William Optics VR-1

Reference Scope: Stellarvue AT1010



## William Optics VR-1 Baader Moon & Skyglow

Reference Scope: Stellarvue AT1010

-----  
**Yard Cannon III - Antares 152mm F6.5 Achromat**


**Smurf III - Skywatcher 100ED F10 TRIPLET**

**Black Widow II - Celestron 80ED F7.5**

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Post Extras:   

**jano**  
member



Reged:  
10/25/04  
Posts: 74

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: pollux]**  
#297220 - 01/01/05 06:49 PM


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Judging by the third photo, the combo is quite effective in reducing CA with almost no color shift. What do you guess is the light transmission of the TO-MV+BMS?

-----  
MTS-SN6  
G-9.25 SCT  
SM 102 Mak  
SVP 100 EQ

Post Extras:

**Hiker**  
scholastic  
sledgehammer  
★★★★★



Reged:  
11/14/04  
Posts: 937  
Loc: Walnut  
Creek, CA

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: pollux]**  
#297223 - 01/01/05 06:53 PM

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Pollux,  
Excellent pictures - thanks for taking time to post. Not only is the color quite good on the VR1/MS pic, but the clarity and contrast is excellent. I wish you had a Fringe Killer - I would love to see a comparison with the \*bleep\*/MS combo.

Regards,  
Harley

-----  
C6-RGT

-----  
Harley

SV80S  
AS-GT mount  
Telepod/Bogen mount  
Nikon 8x42 Monarch

Post Extras:

**pollux**  
Post Laureate  
★★★★★

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: Hiker]**  
#297227 - 01/01/05 06:56 PM

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Reged:  
04/01/04  
Posts: 3442  
Loc:  
Vancouver, BC,  
Canada

Basically VR-1 has very high transparency. Think of the slightly tinted car window.

As for the M&S filter. I also find one interesting thing is that the 1.25" has higher transparency than the 2". The 1.25" version is close to clear (blue) glass while the 2" is like a "smoky" clear blue glass.

All filters I tested (including the M&S) are 2" versions

-----  
**Yard Cannon III - Antares 152mm F6.5 Achromat**

**Smurf III - Skywatcher 100ED F10 TRIPLET**

**Black Widow II - Celestron 80ED F7.5**

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Post Extras:

**Scott Beith**

SRF  
★★★★★



Reged:  
11/26/03  
Posts: 14808  
Loc: Gulfport,  
MS

**Re: MV filter shoot out - WO vs Thousand Oaks** **NEW** [Re: **pollux**]

#297261 - 01/01/05 07:51 PM

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Thanks Pollux,  
Very nice and informative report.

-----  
 Scott

SV102V/CG-5(AS-GT)  
SV Nighthawk/Telepod  
Oberwerks 8x42 and 11x56  
Coronado Binomite II

Post Extras:

**pollux**

Post Laureate  
★★★★★



Reged:  
04/01/04  
Posts: 3442  
Loc:  
Vancouver, BC,  
Canada

**Re: MV filter shoot out - WO vs Thousand Oaks** **NEW** [Re: **Scott Beith**]

#297292 - 01/01/05 08:30 PM

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A little addition here

So far I have tried Thousand Oaks' MV, Sirius' MV1 and MV20, Baader Fringe Killer & Moon+Skyglow, William Optic's VR-1

Here's my personal feeling of the filters (keep in mind that my eyes may see things differently to yours):

Thousand Oaks MV - Super high transparency. Least color shift (almost none) but the false color removal is very minimal on short refractors. Best used for refractors at F8 or even F10

Sirius MV 1 - Very good violet haze removal but the transparency is a bit on the low side + the shift to yellow tint is the worst (worse than WO's VR-1). Works well for F6 refractors (and up)

Sirius MV20 - Better transparency than MV1. Small color shift to "salmon red". Giving a very welcome "warm" tone to images. However violet removal is way too mild. Even a F8 refractor can't get the most out from the filter. Suggest to be used only for F10 or upper refractors.

Baader Fringe Killer - Super high transparency. Good violet removal...around 70%-80% reduction depending on the focal ratio of the refractor. F6 and lower refractors don't seem to work too well. Works best with F8 and higher refractors. Color tone shift to slight yellow (Don't believe Baader's claim on "no" color shift). Need M&S filter to balance out the color tone if you are so paranoid about the color tint.

William Optic's VR-1 - By far the most aggressive MV filter I have ever tried. Works GREAT on short refractors even at F6. High transparency (on par with Fringe Killer). Yellow shift (slightly more than fringe killer but not as bad as Sirius MV1). Violet removal is close to 90% on mid focal refractor and 80% on short refractors. Baader M&S filter can help balance the color shift like it does with Fringe Killer.

If I have a chance I would like to try Contrast Booster, NPC, Lumincon, Stellavue's MVIRC (coming in Feb and there's so much hype on this filter). But seems like I already have the good working filters - William Optics VR-1 and Baader M&S. M&S is used only when looking at the Moon and doing daytime viewing.

One note. Never stack filters. Put the MV filter close to eyepiece and put the MS filter on the diagonal to avoid light bounce between the two filters.

-----

**Yard Cannon III - Antares 152mm F6.5 Achromat**


**Smurf III - Skywatcher 100ED F10 TRIPLET**

**Black Widow II - Celestron 80ED F7.5**


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Post Extras:   

**Bill Grass**  
Prince Regent  
★★★★★

 **Re: MV filter shoot out - WO vs Thousand Oaks** **NEW** [Re: **pollux**]

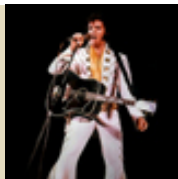
#299827 - 01/04/05 02:57 PM

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 Quote

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Reged:  
10/07/03  
Posts: 10685  
Loc: Denham  
Springs, LA

Very informative, Pollux! 👍



Post Extras: 📄 📧 📧

**pollux**  
Post Laureate  
★★★★★



Reged:  
04/01/04  
Posts: 3442  
Loc:  
Vancouver, BC,  
Canada

**Re: MV filter shoot out - WO vs Thousand Oaks <sup>NEW</sup> [Re: Bill Grass]**

#300420 - 01/05/05 12:21 AM

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Got an email from the guy who designs Stellarvue's MVIRC filter. Things he told me sounds very interesting.

-----  
**Yard Cannon III - Antares 152mm F6.5 Achromat**

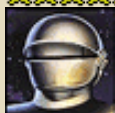
**Smurf III - Skywatcher 100ED F10 TRIPLET**

**Black Widow II - Celestron 80ED F7.5**

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Post Extras: 📄 📧 📧

**Chris G**  
Post Laureate  
★★★★★



Reged:  
08/12/04  
Posts: 3047  
Loc: Jackson,  
MI

**Re: MV filter shoot out - WO vs Thousand Oaks <sup>NEW</sup> [Re: pollux]**

#300453 - 01/05/05 01:17 AM

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Very nice report Pollux. I use the Baader combo on my C6R and have been very pleased with it. Originally I had the WO VR-1 and while it worked great, I couldn't take the yellow color on the moon. Just a personal thing I guess. I sure wish I'd thought to just add the M+S filter to it, good job.

You must have been in touch with Darren Hennig from the SV group, he seems really knowledgeable on his filters and I'll be interested to see how the SV MV filters work.

-----  
**THIS SPACE FOR RENT**

Post Extras: 📄 📧 📧

**pollux**  
Post Laureate  
★★★★★

**Re: MV filter shoot out - WO vs Thousand Oaks <sup>NEW</sup> [Re: Chris G]**

#300455 - 01/05/05 01:23 AM

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Reged:  
04/01/04  
Posts: 3442  
Loc:  
Vancouver, BC,  
Canada

Yeap, Darren Henning

He is a cool guy (from the way he talks)

-----  
**Yard Cannon III - Antares 152mm F6.5 Achromat**

**Smurf III - Skywatcher 100ED F10 TRIPLET**

**Black Widow II - Celestron 80ED F7.5**

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Post Extras:

**Scott Beith**

SRF

★★★★★



Reged:  
11/26/03  
Posts: 14808  
Loc: Gulfport,  
MS

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: pollux]**

#300748 - 01/05/05 11:34 AM

Edit Reply Quote Quick Reply

Darren is VERY COOL.

He donated his LV 8-24mm Zoom as the prize for the First Light Essay competition on the SV site. I lucked out and now enjoy his generosity every time I use it.

-----  
 Scott

SV102V/CG-5(AS-GT)

SV Nighthawk/Telepod

Oberwerks 8x42 and 11x56

Coronado Binomite II

Post Extras:

**Rusty**

Postmaster

★★★★★



Reged:  
08/06/03  
Posts: 8962  
Loc: Brooker,  
FL

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: Scott Beith]**

#301384 - 01/05/05 09:10 PM

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Quote:

Darren is VERY COOL.  
He donated his LV 8-24mm Zoom as the prize for the First Light Essay competition on the SV site. I lucked out and now enjoy his generosity every time I use it.

That'll be a great EP on the 7" MCT you're soon to weaken and get. 🗝️🗨️

N11  
MK66  
C5



Post Extras: 🗑️ 🗉 🗳️

**pollux**

Post Laureate  
★★★★★



Reged:  
04/01/04  
Posts: 3442  
Loc:  
Vancouver, BC,  
Canada

**Re: MV filter shoot out - WO vs Thousand Oaks** NEW [Re: **Rusty**]

#301612 - 01/06/05 12:30 AM

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Rusty, if you mention anything related to "mirror" one more time to Scott he's going to come and kill you

-----  
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**Rusty**

Postmaster  
★★★★★



Reged:  
08/06/03  
Posts: 8962

**Re: MV filter shoot out - WO vs Thousand Oaks** NEW [Re: **pollux**]

#302608 - 01/06/05 10:12 PM

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Loc: Brooker,  
FL

Hopefully he'll try to club me with his ED80, then I'll sic the cats on him (can't use the dogs, as they'd lick the ED80s coatings)...while he's sneezing and de-cattng, I'll snipe the little APO. 😊

-----  
N11  
MK66  
C5



Post Extras:

**Scott Beith**

SRF  
★★★★★



Reged:  
11/26/03  
Posts: 14808  
Loc: Gulfport,  
MS

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: Rusty]**

#302618 - 01/06/05 10:19 PM

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Wow - I leave the thread for a little while and when I come back I'm involved in a murder conspiracy, and I lost a scope !!!  
How did that happen? 🗨️ 🤔 😊

-----



Scott

SV102V/CG-5(AS-GT)  
SV Nighthawk/Telepod  
Oberwerks 8x42 and 11x56  
Coronado Binomite II

Post Extras:

**pollux**

Post Laureate  
★★★★★



Reged:  
04/01/04  
Posts: 3442  
Loc:  
Vancouver, BC,  
Canada

**Re: MV filter shoot out - WO vs Thousand Oaks NEW [Re: Scott Beith]**

#306494 - 01/10/05 07:42 PM

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I was just giving Rusty a friendly "warning"

It's wise for everyone in this forum NOT to piss off the guy who can lift up a heavy phone pole (you Scott) 😊

-----  
**Yard Cannon III - Antares 152mm F6.5 Achromat**

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**Black Widow II - Celestron 80ED F7.5**

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Post Extras:   

**Rusty**

Postmaster

☆☆☆☆☆




Reged:

08/06/03





Posts: 8962

Loc: Brooker,




FL

 **Re: MV filter shoot out - WO vs Thousand Oaks** NEW [Re: **Scott Beith**]

#306625 - 01/10/05 09:38 PM

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Quote:

Wow - I leave the thread for a little while and when I come back I'm involved in a murder conspiracy, and I lost a scope !!! How did that happen?   

Scott...it wasn't murder, just aggravated battery. And not on you, but on me for turning the cats loose...four energetic cats up inside a kilt...**not** a pretty picture.... 😊

-----  
N11  
MK66  
C5




Post Extras:   





**Scott Beith**

SRF

☆☆☆☆☆

 **Re: MV filter shoot out - WO vs Thousand Oaks** NEW [Re: **Rusty**]

#307112 - 01/11/05 12:40 PM

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Reged:  
11/26/03  
Posts: 14808  
Loc: Gulfport,  
MS

That is just WRONG !!!

OUCH!



Scott

SV102V/CG-5(AS-GT)  
SV Nighthawk/Telepod  
Oberwerks 8x42 and 11x56  
Coronado Binomite II

Post Extras:

**Rusty**

Postmaster  
★★★★★



Reged:  
08/06/03  
Posts: 8962  
Loc: Brooker,  
FL

**Re: MV filter shoot out - WO vs Thousand Oaks <sup>NEW</sup> [Re: Scott Beith]**

#307742 - 01/11/05 10:35 PM

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Quote:

That is just WRONG !!!

OUCH!

Back kitties - Ferd, Back Big Fella! Back, I say!

Oops....sorry about that!

N11  
MK66  
C5



Post Extras:

**jano**  
member



Reged:  
10/25/04  
Posts: 74

**Re: MV filter shoot out - WO vs Thousand Oaks** NEW [Re: **Rusty**]

#308190 - 01/12/05 12:22 PM

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Does anybody know the difference between Sirius Optics Neodymium filter and Baarder Planetarium Moonglow & Skyglow, also a Neodymium filter, but for half the price (so there must be something better with the Sirius one, isn't it?)?

-----  
 MTS-SN6  
 G-9.25 SCT  
 SM 102 Mak  
 SVP 100 EQ

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