



NEW!!! You asked for it. The New VRC Series of Optical Tubes. A MallinCam Optical Tube Made for Video CCD Cameras.

- Reconfigured for all Video CCD Cameras
- Quartz Mirror (BK-7 for 6")
- Quartz Secondary Mirror(BK-7 for 6")
- Dielectric Coatings with 99% Reflectivity(92% on 6")
- F/8(F/9 for 6")
- Carbon Fiber Tube(8" and 10" – 6" and 12" have Aluminum Tubes)
- Super Large Linear Focuser
- Full Internal Baffles
- Main and Secondary Mirrors can be Collimated for Ultra Precise Optical Adjustments.

10" Model Shown above. Available in 6", 8", 10" and 12"



The VRC idea became apparent to me when searching for the ultimate compact system we could use with a MallinCam Video CCD Camera. I contacted GSO in Taiwan with my idea. They were very receptive of the idea and asked me what I had in mind. I directed them to the MallinCam website so they could see what we were all about. They were most impressed and were eager to help. It also presented a challenge to them to come up with RC OTA'S optimized for video astronomy.

It took GSO a few trials to produce a MallinCam-ready OTA, and they produced 4 samples for me to test for star pattern and field of view. I was blown away by the quality of each optical tube. I mentioned to GSO that quality came first in the production of the MallinCam, and that I would not accept cheaper quality merchandise as a means of reducing cost. They pulled through for us in a big way.

The Main thing they did was to move the primary mirror a little closer to the front of the optical tube so all MallinCam cameras could reach focus AND still use a MFR-5 focal reducer without removing any spacer rings from the focuser.

Both the Primary and Secondary mirrors can be collimated - a BIG bonus on a telescope of this type. For those wanting a larger VRC, a 16" is in the works as well. Jack Huerkamp has seen the blue prints of the 16" model. If anyone is planning on buying a large optical tube in a RC configuration of a DK configuration, do yourself a favor: wait till the 16" comes out. You won't believe it when you see it. I have several on the list at GSO who we will be the first in the industry to have such a optical tube.

I have been furnished pictures of the optical lab doing testing on the MallinCam VRC optical tubes and interferometry is incredible. GSO takes pride in their work.

I have asked them to include a red dot finder with each OTA. Focusers are heavy duty Crayford linear type for precision focusing with marking on the draw tubes. The MallinCam name is laser etched on each 6" and 8" focusers. It is laser etched on mounting plate of each 10 and 12" model. The 10" and 12" have 3 fans mounted at the rear of the optical tube. They come with a battery pack to run the fans or can be powered with a wall adapter type (not included) to cool down optics if necessary.

Do not confuse the off-the-shelf RC OTAs available from others with the MallinCam VRCs. . Although the others are very good, ours have the extras tweaks done by GSO to optimize them for video astronomy. They understand our belief in "handcrafted" and reaching perfect quality and function in every way. All models including the 12" model come with focusers. Each optical tube is tested on our optical bench before it is shipped to you. There is a serious difference from a standard RC to the VRC made for video work.

Here's some of the specifications and intro prices on the new Ritchey Chretien optical tube called VRC for Video Ritchey-Chretien:

VRC- 6:

- Ritchey-Chretien Optical Design
- White Aluminum tube
- Full internal baffle system included
- 1/12 wave optics minimum
- BK 7 optical glass main and secondary mirrors
- Aluminized coatings to 92% reflectivity.
- 2 speed with locking knob focuser and 1.25" and 2: adapter included.
- 2 spacer rings to adapt any cameras or diagonal
- 2" output optical rear exit port
- Vixen style mounting dove tail
- Red cross finder included with battery and mounting hardware
- Main mirror and secondary mirror collimation adjustments with locking system
- F/9

Intro Price: 499.99 plus shipping

VRC 8:

- Ritchey-Chretien Optical Design
 - Zero Expansion Dark Grey Carbon Fiber Tube (beautiful!)
 - Full internal baffle
 - Zero Expansion Quartz main and secondary mirrors!
 - Dielectric mirror coatings on both Main and Secondary mirrors with 99% reflectivity!!
 - 1/12 wave optics minimum
 - Two Vixen Style mounting dove tail included, one on top and one at the bottom
 - 2 speed focuser with locking knob and tension adjustments, 1.25" and 2" adapter included
 - 3 focuser spacers to adapt any cameras or diagonal included
 - Main mirror and secondary mirror collimation adjustments with locking system
 - Red cross finder included with battery and mounting hardware
 - F/8
 - About 25 pounds
- Intro Price 1399.99**

VRC 10:

- Ritchey-Chretien Optical Design
 - Zero Expansion Dark Grey Carbon Fiber Tube (beautiful!)
 - Full internal baffle
 - Zero Expansion Quartz main and secondary mirrors!
 - Dielectric mirror coatings on both Main and Secondary mirrors with 99% reflectivity!!
 - 1/12 wave optics minimum
 - Two Losmandy "D" Style mounting dove tail included, one on top and one at the bottom
 - 2 speed focuser with locking knob and tension adjustments, 1.25" and 2" adapter included
 - 3 focuser spacers to adapt any cameras or diagonal included
 - Main mirror and secondary mirror collimation adjustments with locking system
 - Red cross finder included with battery and mounting hardware
 - 3 " optical output
 - F/8
 - About 40 pounds
- INTRO Price: 2799.99**

VRC 12"

- Ritchey-Chretien Optical Design
 - White Aluminum optical tube
 - Zero Expansion Quartz main and secondary mirrors!
 - Dielectric mirror coatings on both Main and Secondary mirrors with 99% reflectivity!!
 - 1/12 wave optics minimum
 - Losmandy "D" Style mounting dove tail included,
 - 2 speed focuser with locking knob and tension adjustments, 1.25" and 2" adapter included
 - 3 focuser spacers to adapt any cameras or diagonal included
 - Main mirror and secondary mirror collimation adjustments with locking system
 - Red cross finder included with battery and mounting hardware
 - 4" optical output
 - F/8
 - About 50 pounds
- Intro Price 3499.99

All Models in Stock Ready for delivery.





Pictures below are of the VRC 12 - a Video Ritchey Chretien Optical Tube mounted on a Losmandy Titan Equatorial Mount. The images were taken from the MallinCam Observatory in downtown Ottawa Canada.









