

Re: Disassembling Rubinar 10/1000

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- *From:* Bhogi <bhogi@xxxxxxxx>
 - *Date:* Thu, 26 Mar 2009 03:39:46 -0700 (PDT)
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On 26 mar., 10:12, Winstone <winstonewar...@xxxxxxxx> wrote:

On Mar 26, 4:22 pm, Bhogi <bh...@xxxxxxxx> wrote:

On 26 mar., 01:50, Winstone <winstonewar...@xxxxxxxx> wrote:

On Mar 26, 8:28 am, Bhogi <bh...@xxxxxxxx> wrote:

On 26 mar., 00:35, Winstone
<winstonewar...@xxxxxxxx> wrote:

On Mar 26, 5:40 am, Bhogi
<bh...@xxxxxxxx> wrote:

<http://ejarm.com/m42to125diagonal.jpg>

I made it
from black
delrin
plastic.
Your
adapter is
thinner I
think,
I left 10mm
of space to
use the m6
screws. I
use the
inexpensive
1.25"
diagonal
from

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surplussed.
I shortened
the tube on
the diagonal
as
much as
possible,
because I
wanted to
use the lens
with the
field
flattener
lens,
otherwise
I'm not sure
I could
focus to
infinity. The
1000
rubinar is
ok with all
my
eyepieces
(surplussed),
but the 500
f/
5.6 can't
focus to
infinity with
one
eyepiece.

What 500 f/5.6 are you
talking about?

http://www.rugift.com/photocameras/rubinar_500_lens.htm

I also ordered a lumicon 1"
eyepiece extension (not yet
received)
so that I can put any
diagonal and it won't hit the
rear field
flattener. Why did you cut

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your diagonal. You can just secure the front 10mm of any diagonal without getting it all the way inside that can hit the field flattener. Unless you want shorter diagonal to avoid aberrations? Why have you compared using normal diagonal and shortened diagonal? Is the aberration of the normal diagonal significant? What other issues or pro/con between using each of them?

You obviously haven't tested the lens with the diagonal yet. The lens is designed for use with cameras that have 44mm flange distance. That's not enough distance to mount any 1.25" diagonal. Without the infinity stop you can focus past the infinity – increase the "flange distance" – but not by very much. That's one reason to keep the diagonal as close as possible.

For optimum quality. Why don't you use a diagonal that has the same 44mm flange distance. Not possible? The reason I'm using a 1" eyepiece extension is because I'm using a Televue Everbright diagonal and i can't just cut the tube to focus it closer.

A 1.25" diagonal needs some space + the eyepiece needs some space, I'd guess all in all a minimum of 60mm. Now if you have a long diagonal tube this increases.

I think your diagonal tube is not very long so I think you won't have any problems.

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With your inexpensive surplused diagonal that you can cut shorter. What is the estimated equivalent flange distance closest you can get? If close to 44mm. Then it means I don't even have to adjust the infinity stop (except perhaps if I want closer focus)?

My guess about 60mm, maybe more. You definitely need to remove the infinity stop.

Why don't you just try it with the unmodified lens? Just be careful not to touch the field flattener.

Also to focus at closer like 1 meter and beyond infinity, the adjustment of the screws of the aluminum ring is the same, right. Or is there a separate adjustment if one wants to focus closer and beyond infinity?

The adjustments you are talking about are just about the distance scale, how the focusing collar is oriented. With the changed flange distance I don't think the distance scale is accurate enough. I actually never use the distance scale.

All the lens does is move the front group of lenses relative to the primary mirror. Other than that there is no optical adjustment possible.

But there is a big difference. I mean normally one can't adjust the front all the way to focus at 1 meter and less until the front lens cell comes off. So is there something inside the aluminum tube that stops it. So you mean by simply loosening the 3 screws, the front cell itself can be unscrew all the way from the second half or rear part? Also the two front lens are contained in one cell?)?

This is last detail I need to know before I start disassembling it and in the point of no return.

Win

Infinity stop is a piece of aluminium that stops the front cell from turning the whole 360 degrees in both directions. When you open the lens you'll see how trivial that is. You don't just loosen the screws you have to remove the stop.

How much you can focus beyond infinity (increase flange distance)

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depends on how far the cell can be moved towards the primary, and near focus depends on when you totally unscrew the front cell. You can't accidentally unscrew the front cell, it takes a few full 360 degree turns to do that.

The front cell is one piece yes, exactly like in this drawing:

<http://ejarm.com/rubinar.jpg>

Follow my directions from the first post, take pictures, and let us know.

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