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Vertical Alignment of Panoramas with PTGui

Forum overview

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[https://groups.google.com/forum/?fromgr ... /360cities](https://groups.google.com/forum/?fromgr.../360cities)

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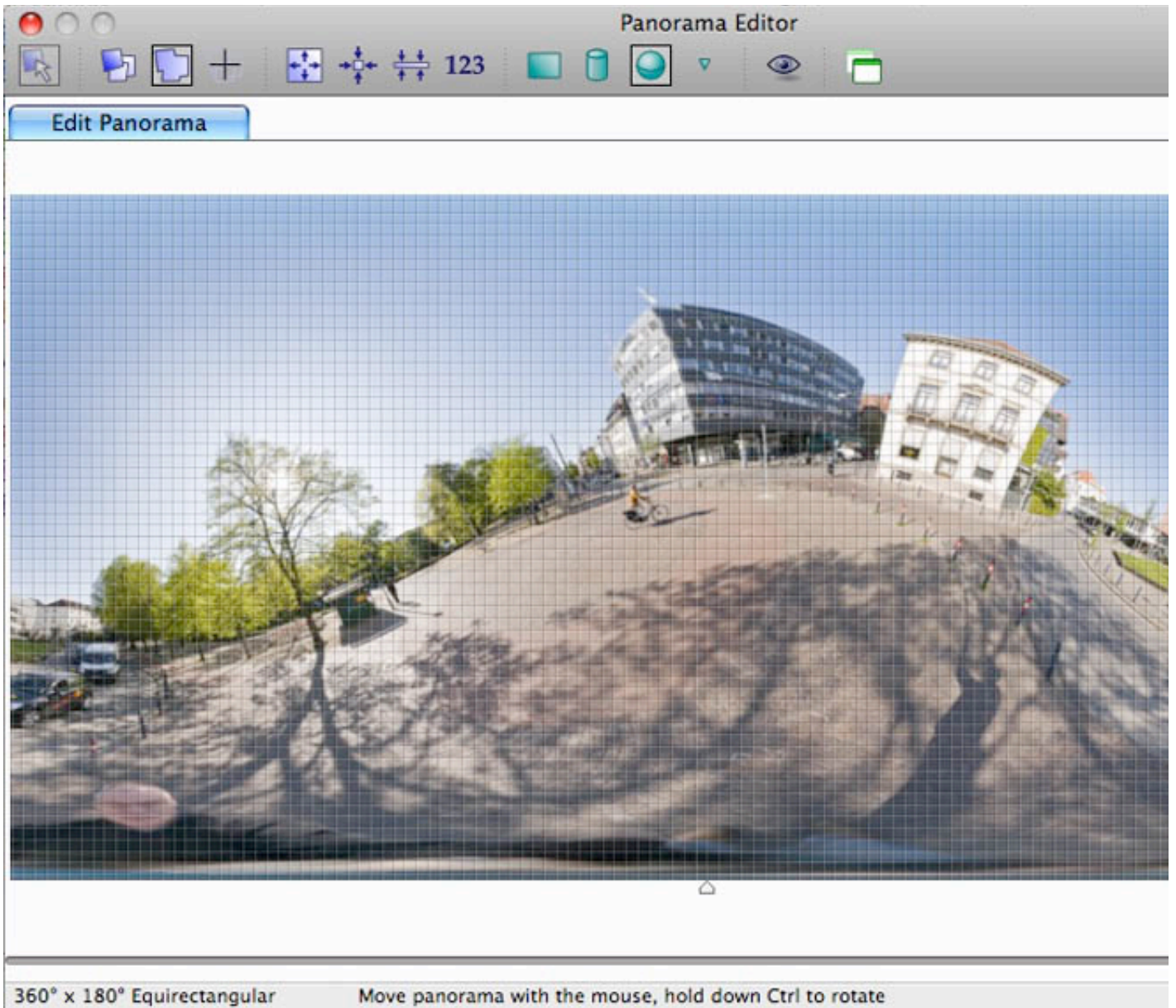
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Vertical Alignment of Panoramas with PTGui (#p1436)

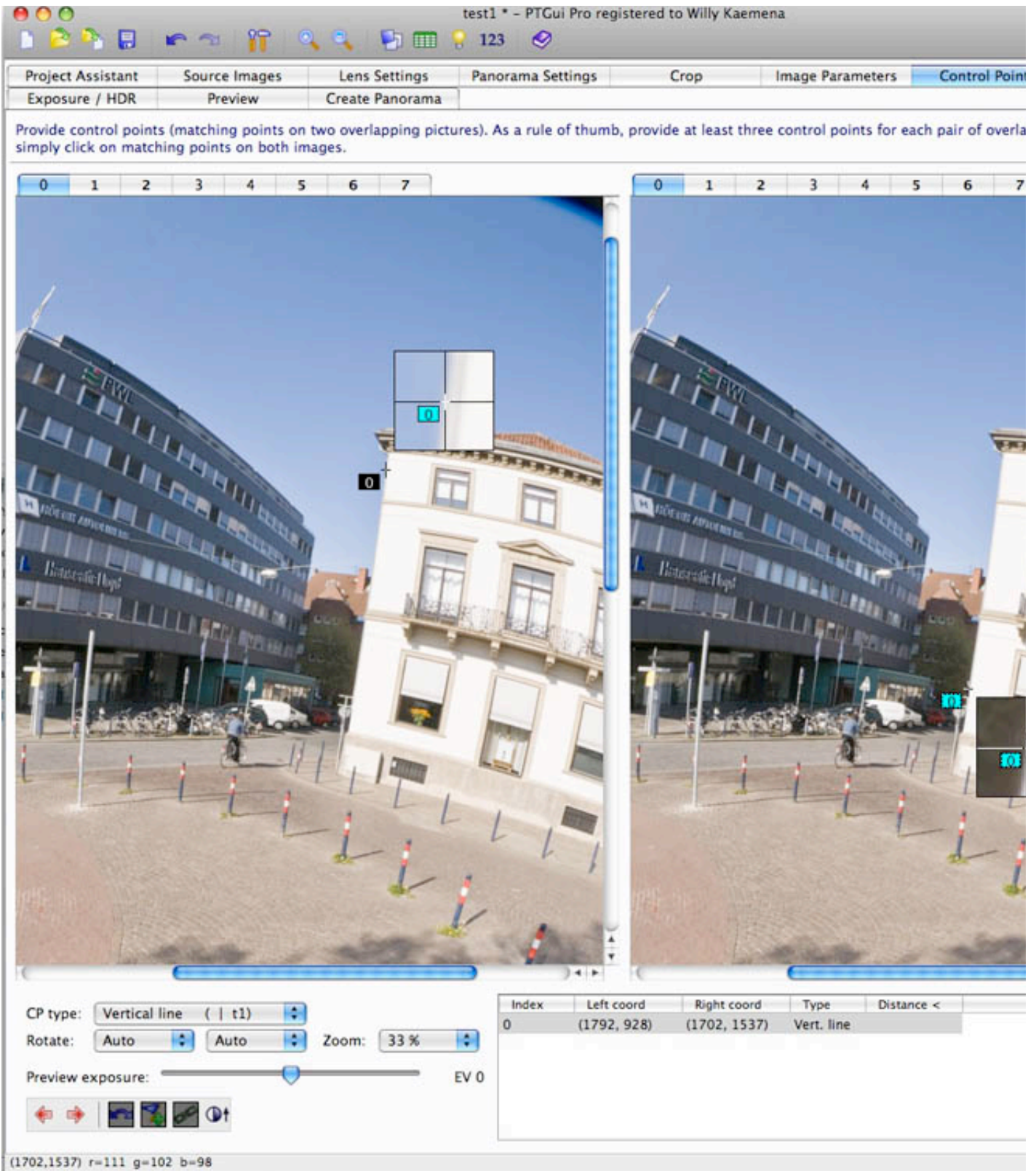
by **WillyKaemena** » Wed Apr 22, 2009 2:37 pm

Some of the 360cities photographers have sometimes some problems with the correct vertical alignment of the panorama: To make this task clear and easy I would like to explain the process with a sample panorama and the corresponding screen shots. Reason for not perfect vertical alignment is a not vertically aligned tripod/monopod. But don't worry about it, you can take the shots for a panorama at any angle of the tripod /monopod as long as you maintain this angle during the whole round of the shots for that panorama. The correct vertical alignment can be easily achieved within PTgui.

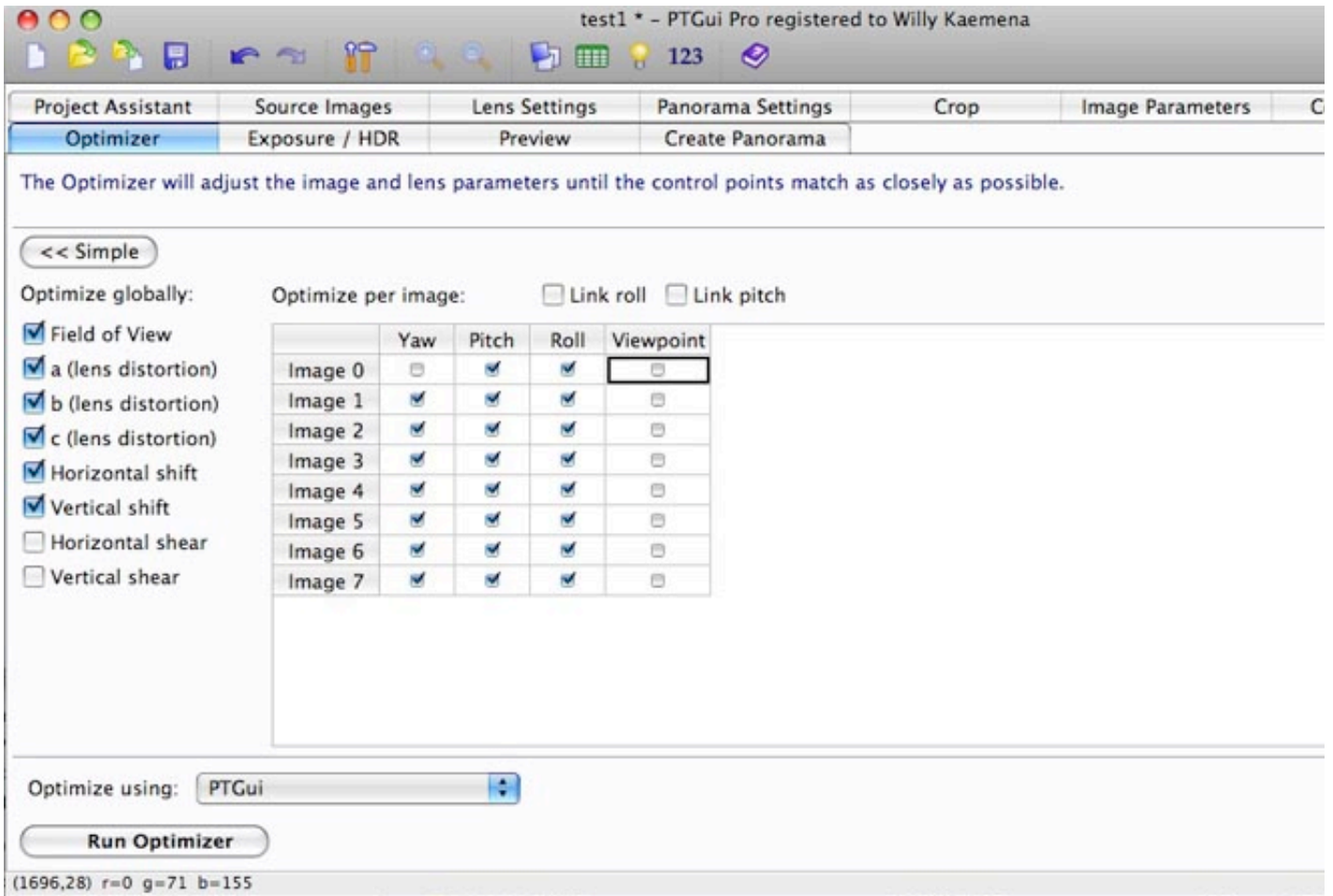
1. Stitch and optimize the panorama as usual. Don't worry about the wrong vertical alignment at this stage.



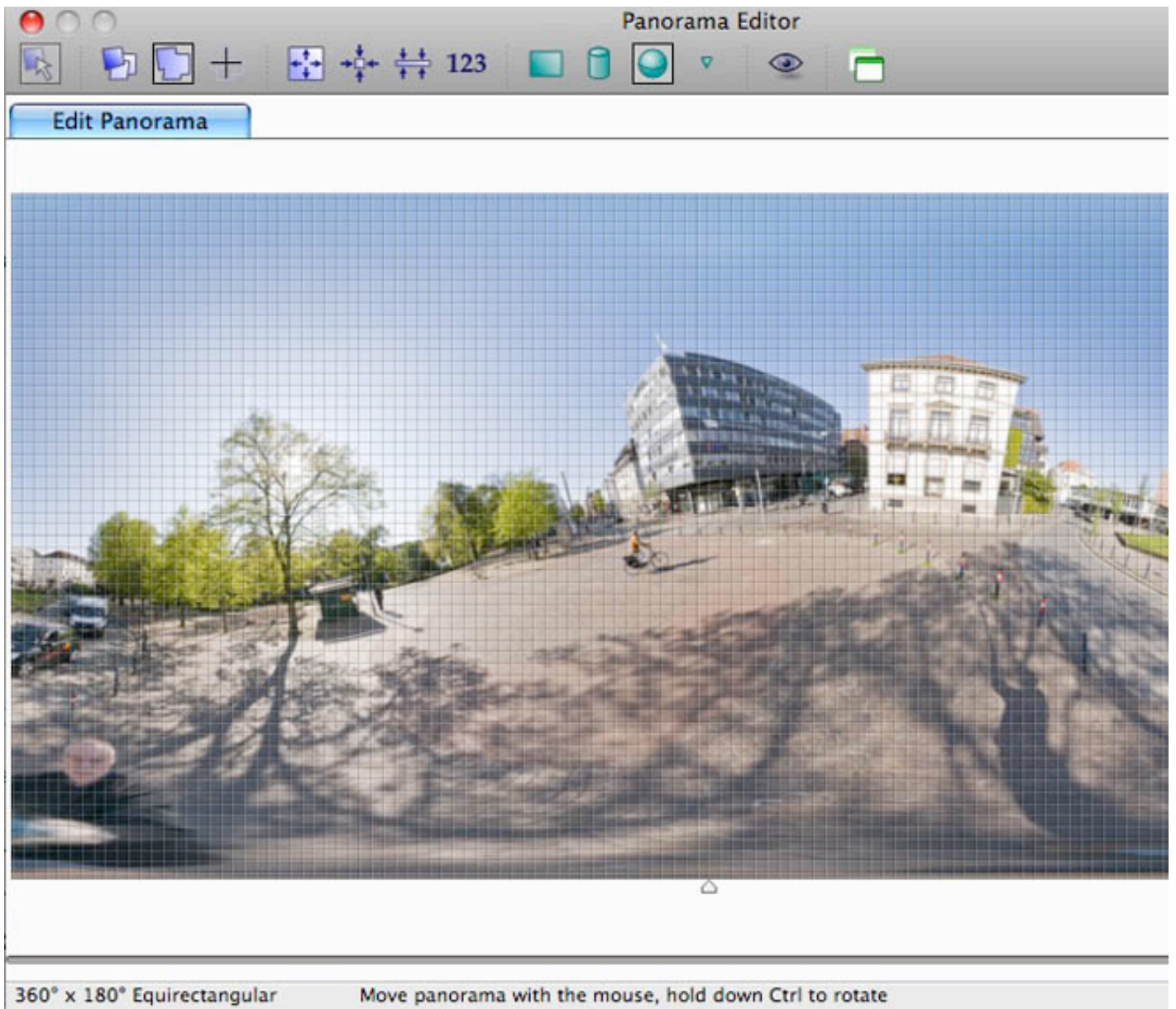
2. Go to the control points Tab and choose an image with a clear visible vertical line, like a building corner which you could assume to be vertical. Set manually a control point on this corner like in the next screen shot. I have chosen the left corner of the white building



3. Then go to the Optimizer Tab and tick the Pitch and Roll of that image where you have set the vertical control points. (in this case Image 0) and click the Run Optimizer button.



You will get the same optimization values but your panorama editor window will show immediately the changes.



Now you can see that the aligned building corner is vertical , but unfortunately the whole panorama is still not vertically aligned. This happens sometimes and depends on which corner you have chosen by chance. In this case it is necessary to make a second alignment. Go back to the Control Points Tab and choose another second vertical line for the alignment process.

test1 * - PTGui Pro registered to Willy Kaemena

Project Assistant | Source Images | Lens Settings | Panorama Settings | Crop | Image Parame

Control Points | Optimizer | Exposure / HDR | Preview | Create Panorama

Provide control points (matching points on two overlapping pictures). As a rule of thumb, provide at least three control points on overlapping images. It's easy: simply click on matching points on both images.

0 1 2 3 4 5 6 7 | 0 1 2 3 4 5

Index	Left coord	Right coord	Type
0	(2143, 1204)	(1882, 1861)	Vert. line

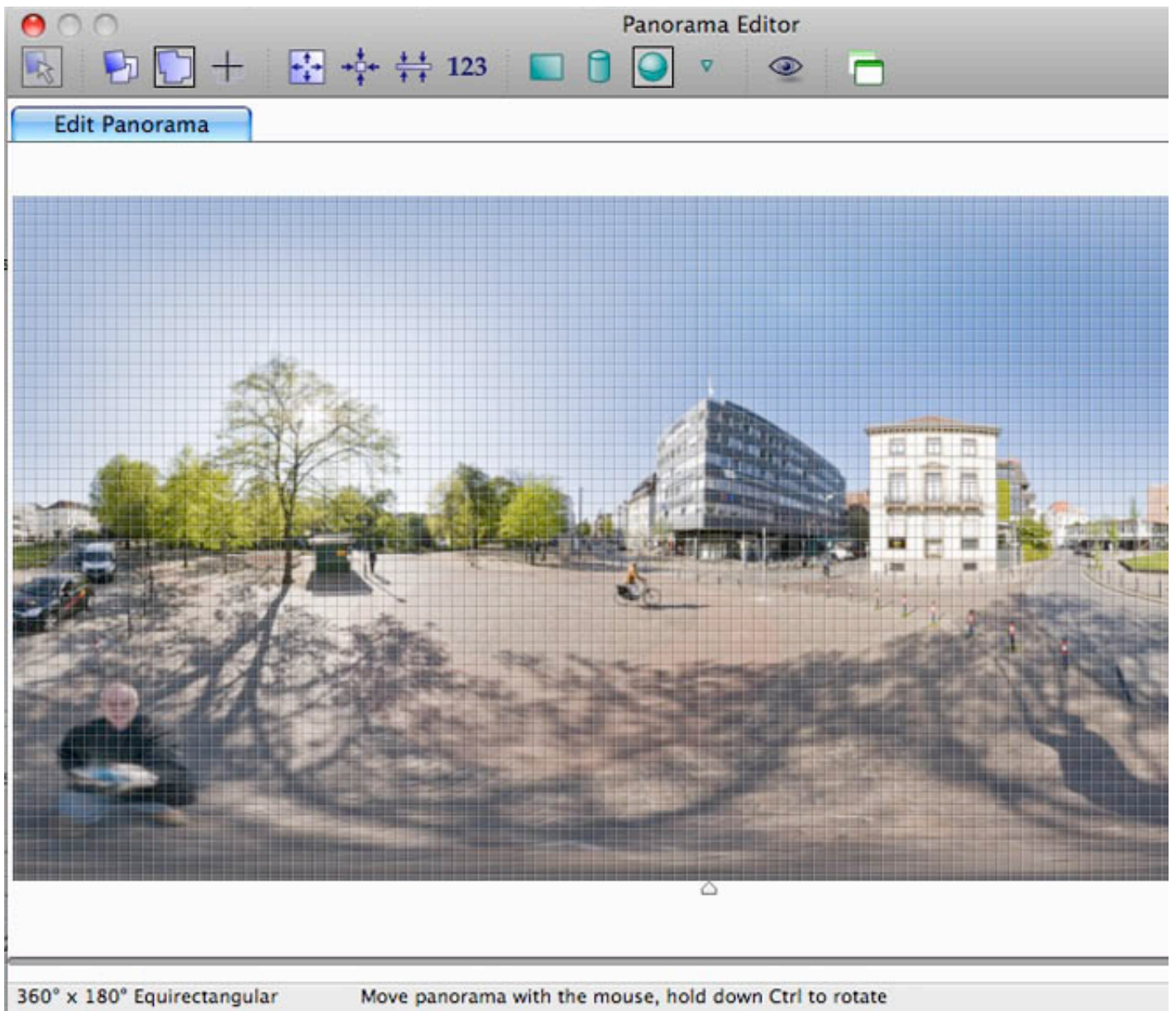
CP type: Vertical line (| t1)

Rotate: Auto Auto Zoom: 33 %

Preview exposure: EV 0

(1621,2938) r=87 g=84 b=85

Run the optimizer as before with the same pitch and roll settings as before (in our case Roll and Pitch on image 0 !!) and you will see in the Editor window immediately the perfectly aligned panorama.



HINT: by moving the little triangle at the bottom of the editor window you can display a grid which comes handy to check the vertical alignment of a panorama.

Last edited by [WillyKaemena \(./memberlist.php?mode=viewprofile&u=78\)](#) on Wed Apr 22, 2009 6:26 pm, edited 1 time in total.

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[Re: Vertical Alignment of Panoramas with PTGui \(#p1440\)](#)

by [vincen-pujol](#) » Wed Apr 22, 2009 3:30 pm

clear and efficient, great ;)

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[Re: Vertical Alignment of Panoramas with PTGui \(#p1446\)](#)

by [Jeffrey Martin](#) » Wed Apr 22, 2009 4:12 pm

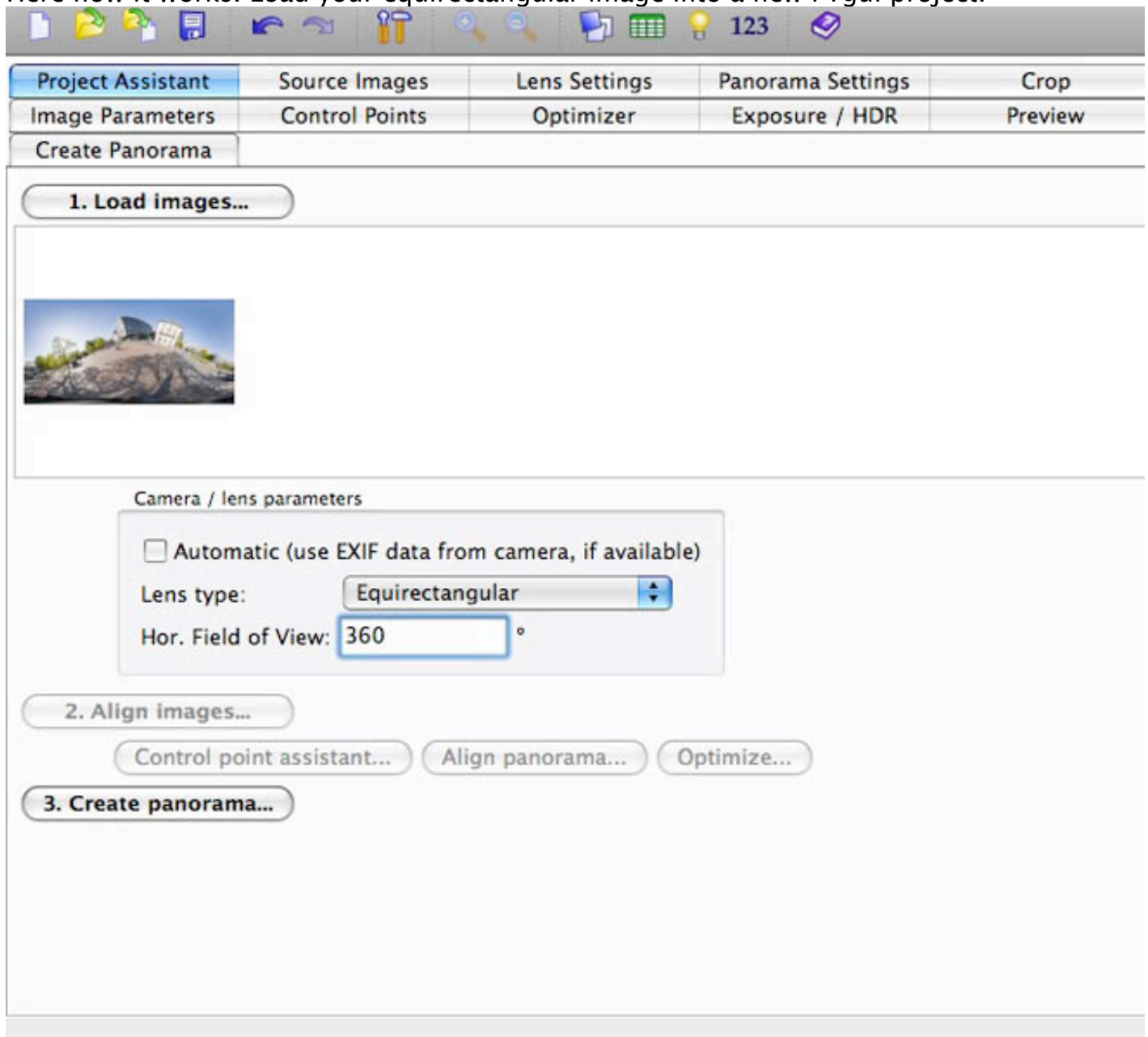
yes, great job Willy, thank you!

I'll be sending this link, any time I see a non-level pano on 360cities ;)

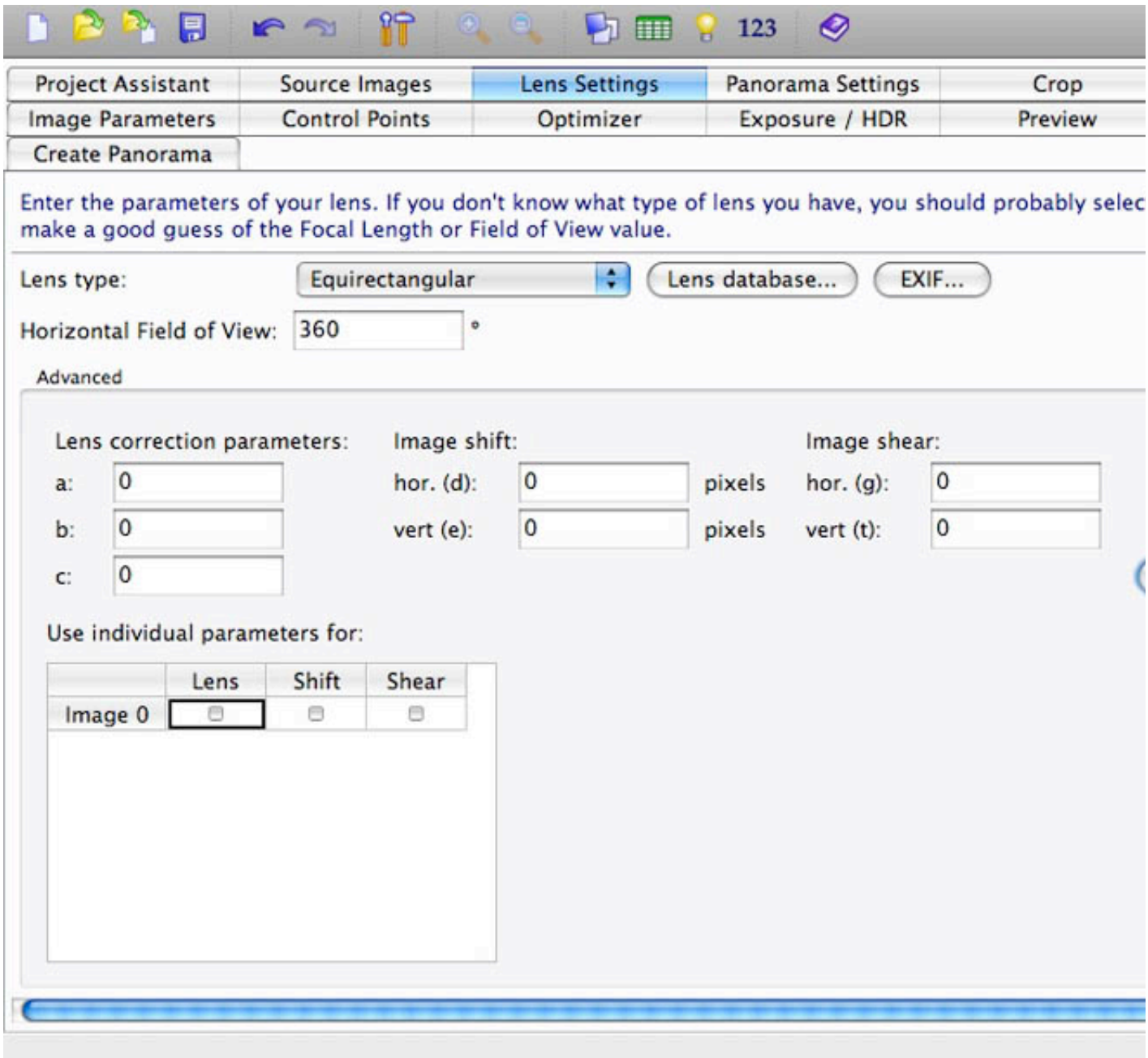
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[Re: Vertical Alignment of Equirectangular with PTGui \(#p1459\)](#)

If you have already stitched and edited your panorama and now found out that the final version of your equirectangular image has not properly aligned vertical lines, then you can work also on the already finished version of your panorama with PTgui !! Here how it works. Load your equirectangular image into a new PTgui project.



important set in the lens settings tab all values on 0 (zero) and the horizontal FOV on 360



Now define some vertical control points

Untitled * - PTGui Pro registered to Willy Kaemena

Project Assistant Source Images Lens Settings Panorama Settings Crop Image I

Control Points Optimizer Exposure / HDR Preview Create Panorama

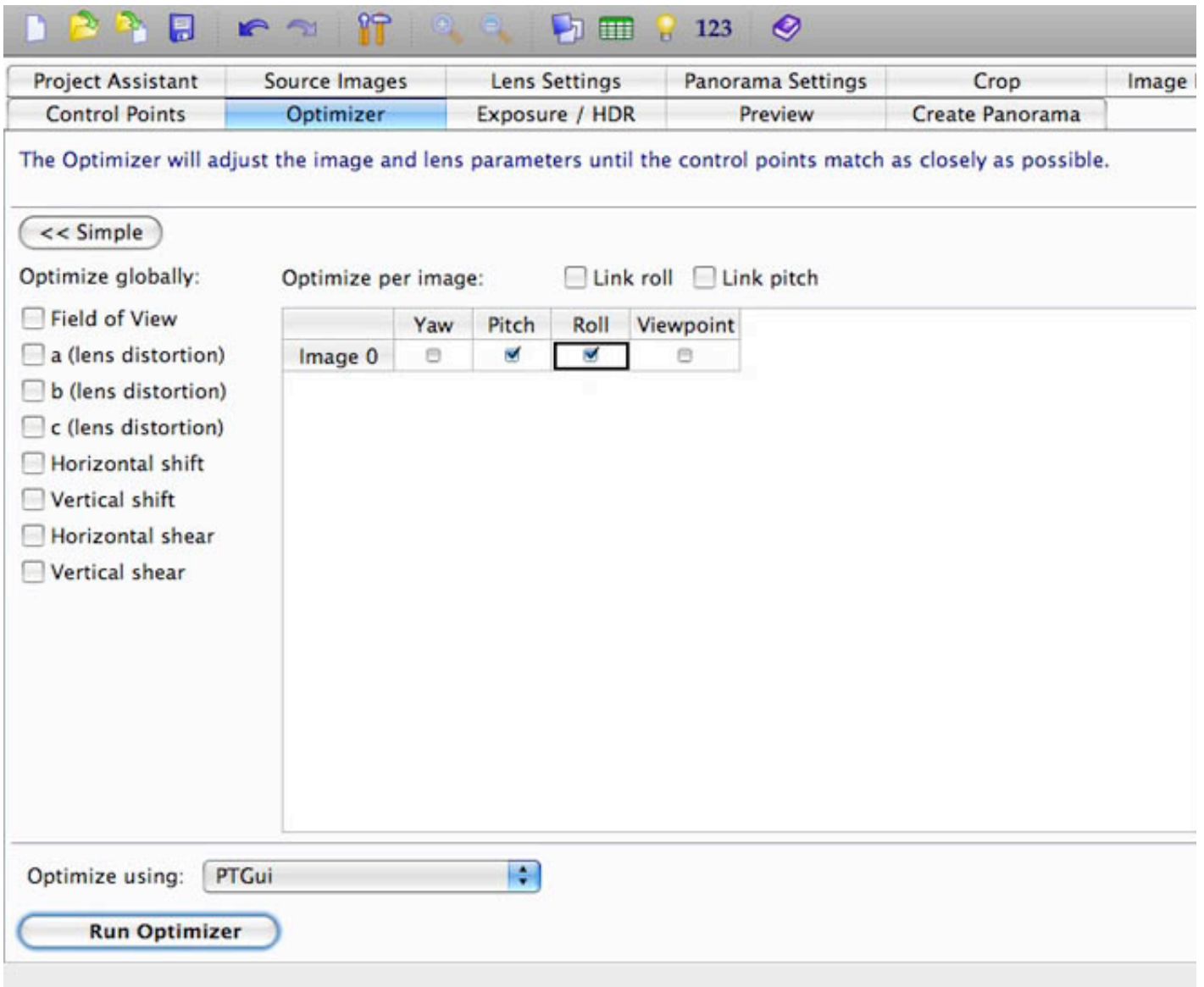
Provide control points (matching points on two overlapping pictures). As a rule of thumb, provide at least three control overlapping images. It's easy: simply click on matching points on both images.

CP type: Vertical line (| t1)
 Rotate: Auto Auto Zoom: 50 %
 Preview exposure: EV 0

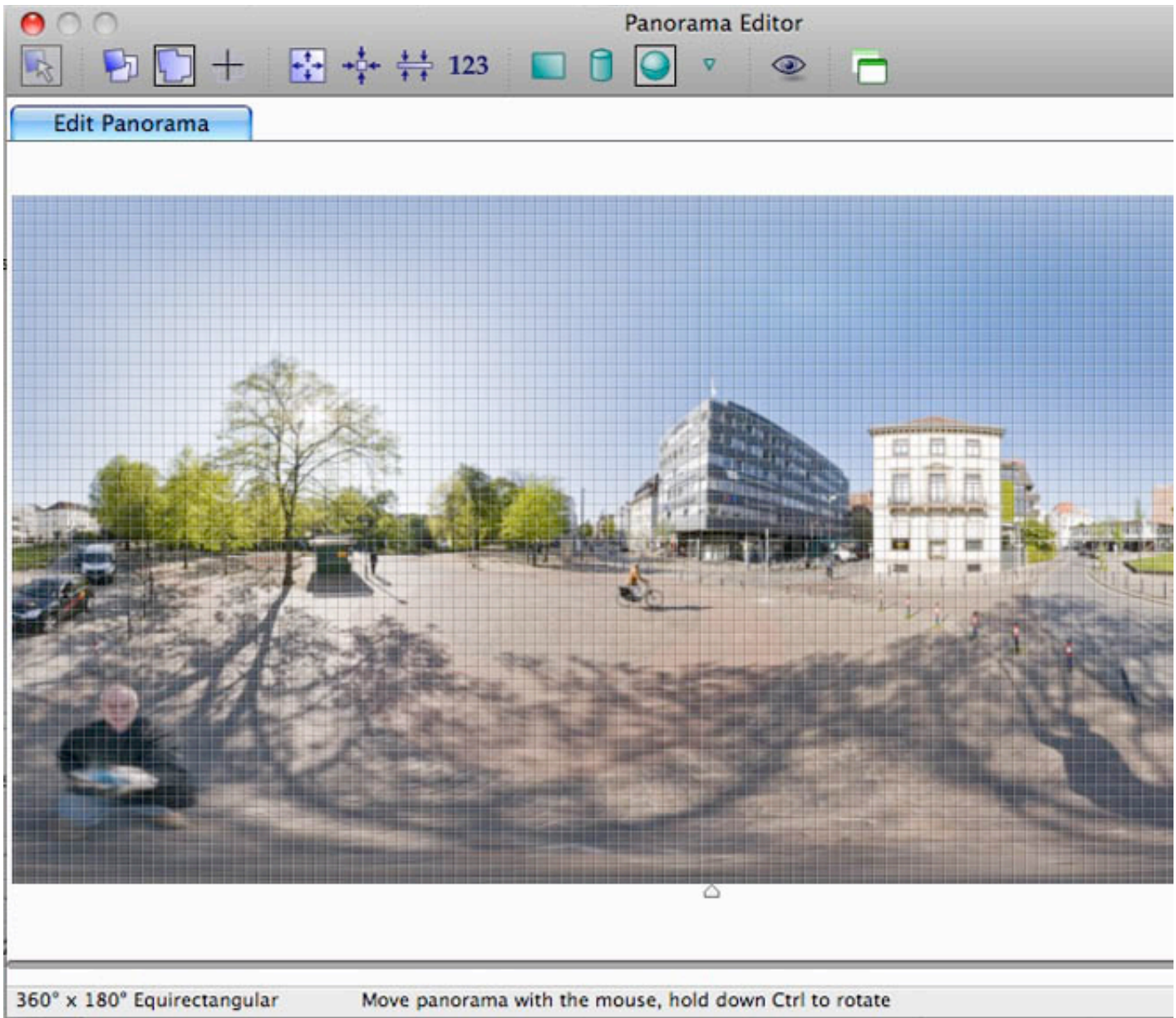
Index >	Left coord	Right coord	Typ
0	(1925, 351)	(1877, 535)	Vert.
1	(2253, 437)	(2159, 627)	Vert.

(1809,897) r=135 g=120 b=113

Now go to the optimizer tab and run the optimizer.



now the panorama is perfectly aligned !! go to Create Panorama tab and create a new equirectangular. DONE :shock: :lol:



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