
Subject: lens distortion

Posted by [Ale](#) on Tue, 16 Sep 2003 22:10:04 GMT

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I need to develop an IDL routine to correct lens distortion (barrel/pincushion) for our CT camera. Where could I find suggestions or examples on this topics ?

Thank you
Alessandro

Subject: Re: lens distortion

Posted by [JD Smith](#) on Tue, 23 Sep 2003 18:38:05 GMT

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On Mon, 22 Sep 2003 04:53:14 -0700, Ale wrote:

```
> I tried your routine but I received this error :  
>  
> IDL> .COMPILE "C:\WINDOWS\Desktop\lente.pro" % Compiled module:  
> PINCUSHION_CORRECT. IDL> read_jpeg,filepath('people.jpg',  
> SUBDIR=['examples','data']),im,/GRAYSCALE % Compiled module: FILEPATH. %  
> Loaded DLM: JPEG.  
> IDL> tv,[im,pincushion_correct(im,-.15)] % Compiled module: DIST. %  
> SHIFT: Expression must be a scalar in this context: <LONG Array[2]>. %  
> Execution halted at: PINCUSHION_CORRECT 6  
> C:\WINDOWS\Desktop\lente.pro % $MAIN$  
>  
> Perhaps I did something wrong.
```

You didn't upgrade your IDL ;). This works for IDL>=v5.5. Change product(d) to d[0]*d[1], change shift(dist(d[0],d[1]),d/2) to shift(dist(d[0],d[1]),d[0]/2,d[1]/2), and change lindgen(d) to lindgen(d[0],d[1]). Isn't the REFORM-style dimension notation nicer?

JD
