Subject: My Iris! My Eyes...no my eyes!
Posted by madox on Fri, 31 Oct 2008 06:20:39 GMT
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Ooops that one file per message is quite annoying, it posts the message for you as soon as you press upload... /rant over :)

Just got my package from Shapeways today! So happy that it has finally arrived.

The design was a concept, draw and try upload it to Shapeways in less than 2 hours effort to take advantage of the 66% off black detail offer and it hasn't turned out too bad.

Things I've noticed :-
- The triangulation of the STL seems to be very course for the outer ring, but I suspect this is a problem with Alibre Xpress rather than shapeways.
- The black detail material is actually quite springy and not very rigid. I expected this (infact hoped for it) for the really thin blades, but the inner ring was packed as an ellipsoid in the packaging :(Which made trying to bend it back into shape and fitting it into the outer ring a bit annoying.
- I need to add more clearance to parts I intend to move :) The pins fit and slide into the slots perfectly... but the pivot pins and the inner/outer ring don't really rotate ... need to do some sanding I think.
- Alot of support material remains ... you can see some still stuck onto one of the blades in the 4th picture...
- You can actually notice the 'print lines' that mark the pieces.

Things I should say :-
Sorry to Shapeways if it was annoying to print out 2*24 pieces of very very very small parts that didn't earn much money :(Sorry. I printed double in case the really thin (0.25mm?) pieces didn't work out.

File Attachments

1) DSC05561.JPG, downloaded 2420 times

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by madox on Fri, 31 Oct 2008 06:22:13 GMT
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1) DSC05565.JPG, downloaded 2386 times

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by madox on Fri, 31 Oct 2008 06:23:33 GMT
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1) DSC05567.JPG, downloaded 2367 times

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by madox on Fri, 31 Oct 2008 06:24:38 GMT
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1) DSC05571.JPG, downloaded 2394 times

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by madox on Fri, 31 Oct 2008 07:02:41 GMT
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Pre-empting questions on "WTF is this thing?"...

Its a 'large' mechanical iris diaphragm that 'opens' and 'closes' as the outer ring is rotated around the inner ring.

Here is a photo of it 'almost closed' showing the translucency of the blade detail material. Doesn't make a real effective iris to shut out light does it?

File Attachments

1) DSC05576.JPG, downloaded 2559 times

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by madox on Fri, 31 Oct 2008 07:05:07 GMT
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This photo shows the 'trying to pretend to be star-gate' attempt ;)

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1) DSC05579.JPG, downloaded 2620 times

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by aws357 on Fri, 31 Oct 2008 12:39:49 GMT
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:lol: The more things I see printed, the more in awe I am...

:d Although plastic seems to lack precision for a piece like a diaphragm...

:roll: These are indeed interesting times...

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by Dalhimar on Fri, 31 Oct 2008 12:46:47 GMT
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Lookes awsome! any chance on a short vid showing how smooth it closes?
and also, did you base this off of a conventional iris used in things like kerosene heaters or stargate? =P

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by pzich on Wed, 12 Nov 2008 23:56:48 GMT
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That is really cool. How did you go about making this?

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by madox on Sat, 15 Nov 2008 13:40:33 GMT
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pzich wrote on Wed, 12 November 2008 18:56That is really cool. How did you go about making this?

I did a little writeup of it today here :-
http://www.madox.net/blog/?p=8

Yes little 1mm diameter pins break off rather easily as I've found out the hard way :)

I'll try capture a video as soon as I put the spare blades on :)

Subject: Re: My Iris! My Eyes...no my eyes!
Posted by aws357 on Mon, 17 Nov 2008 10:15:12 GMT
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:d Don't know what is more frightening...

The patience you took to model this, or the SG fanatism (no seriously you really counted the 20 blades? °°)

:roll: awaiting this video...