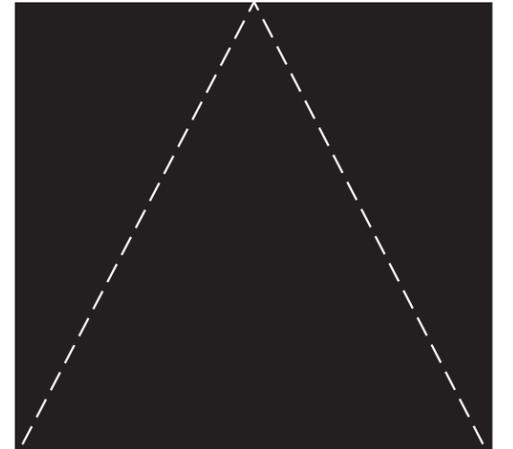
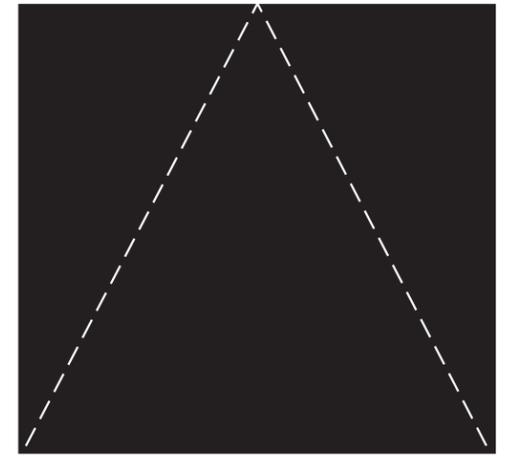
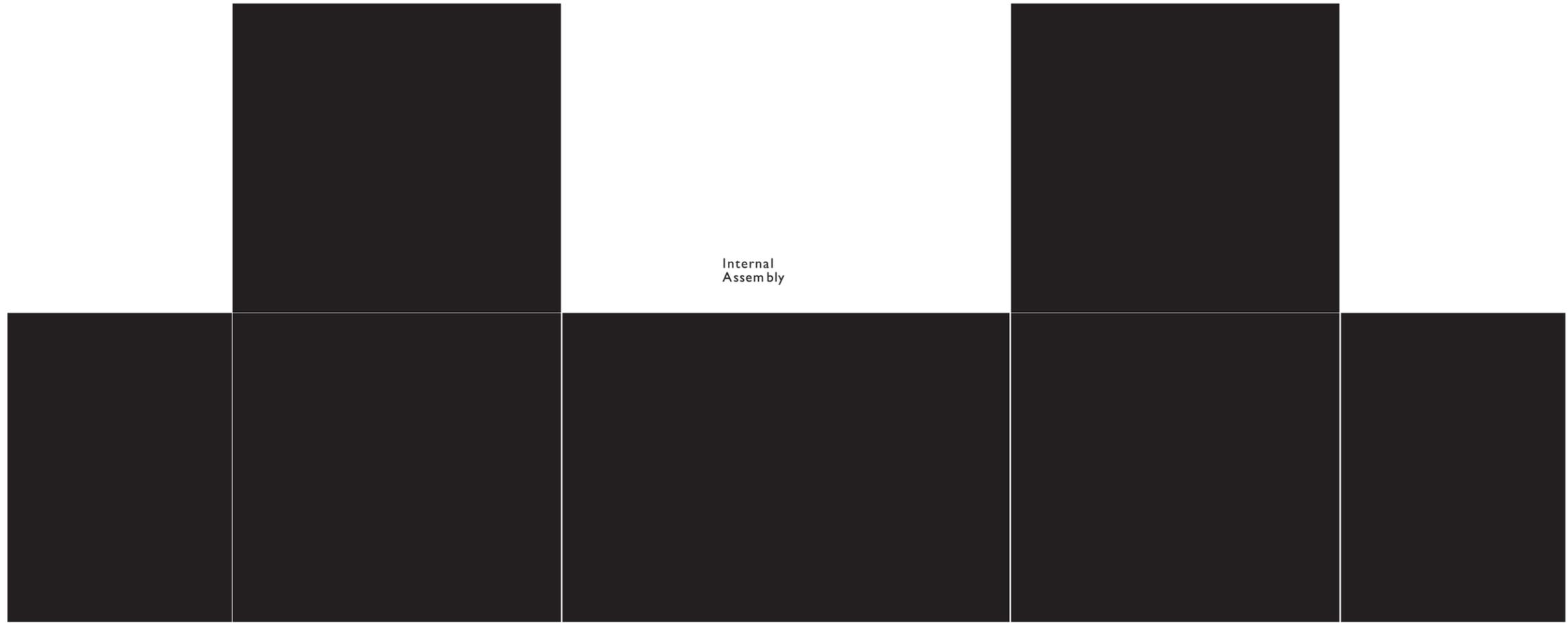
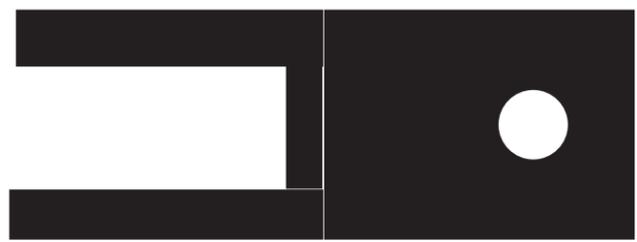
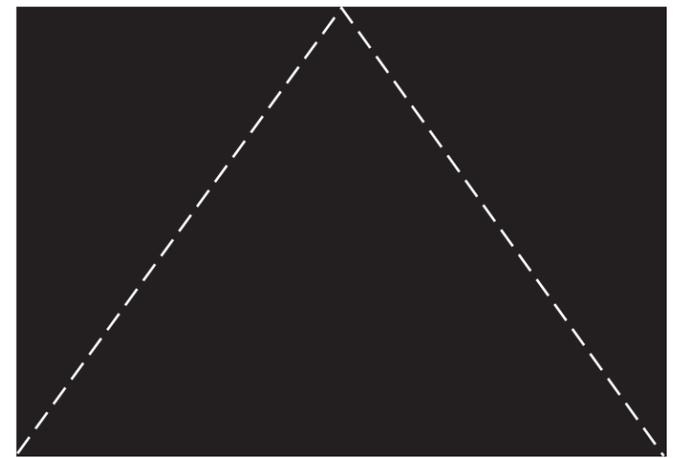
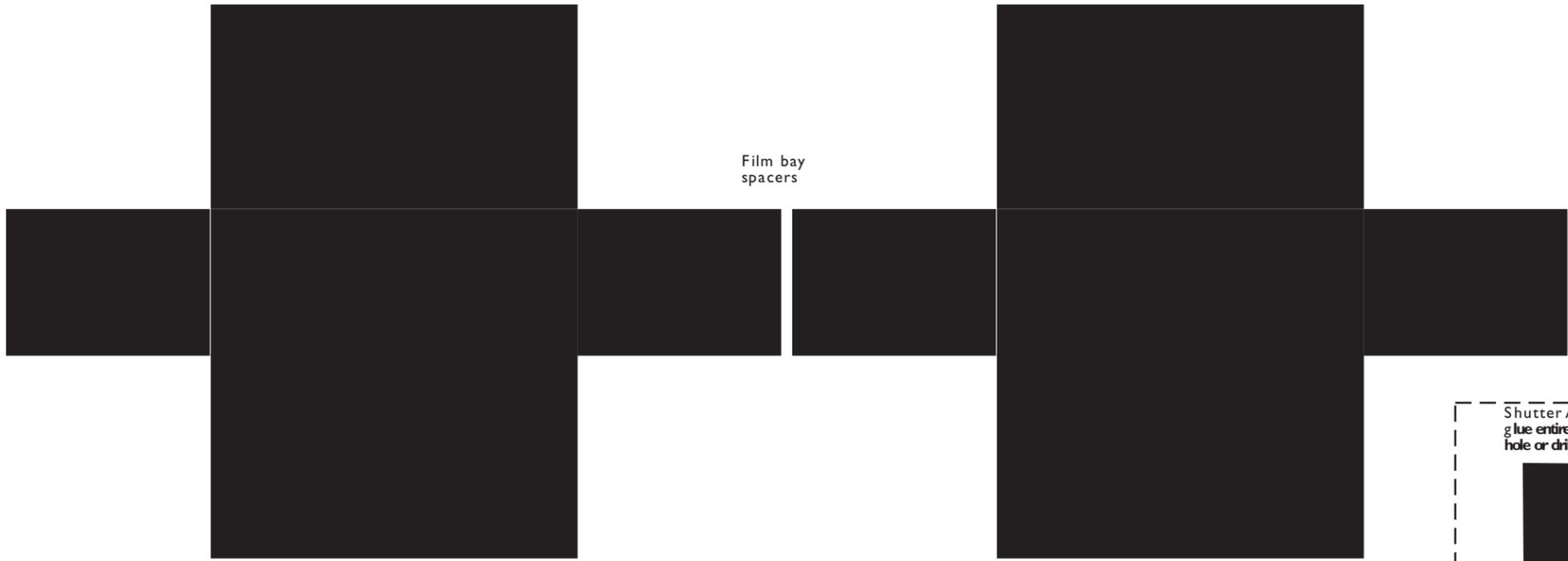


Internal  
Assembly

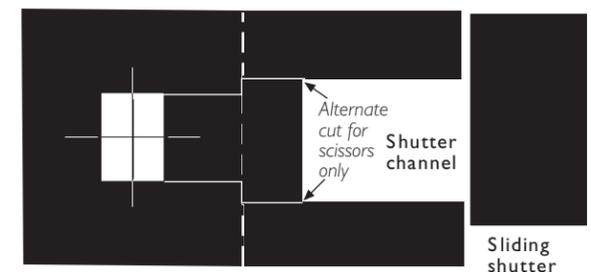


Film bay  
spacers



Film  
counter  
shutter

Shutter Assembly  
glue entire area dotted area to cardstock and cut  
hole or drill and enlarge before cutting out.



Winder collar, glue entire area  
dotted area to cardstock and drill or  
cut hole and insert dowel before  
cutting out.



Good afternoon **dvoracek**.

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f295: Exploring 21st Century Photography > Studio & Darkroom > Lensless Camera: Making and Modifying > 120 populist

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**Author**

**dvoracek**

f295 Master



Photon path limiting  
imager

Posts: 1,006

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120 populist (currently 1,167 views)

**Posted:** March 14th, 2007, 10:51am

Sat down at the computer this weekend and whipped up a pattern for a 120 film populist with 6 x 9 format and built it last night. Same process and materials as the 35mm version, with a few twists.

First, it's big. Kinda hard to find cardstock big enough - large economy size cereal boxes (this one is Frosted Minit Wheats) are just barely large enough for the front and back, and had to use a soft drink 12 pack for the inner assembly aligning the existing fold in the right place.

**Attachment:** populist120\_8546.jpg  
1250 downloads - Size: 19.09 KB



<http://idea.uwosh.edu/nick/pinholephoto.htm>

Logged

Online



**dvoracek**

**Posted:** March 14th, 2007, 10:56am

f295 Master



Photon path limiting  
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Of course no clicker necessary. I made a sliding shutter for the film counter window. One of my staff teaches Graphic Design and she keeps a sheet of Rubylith around to show students what they're missing, so she gave me a bit for the window. I know it doesn't really make any difference with panchromatic film, but the red window's traditional and it does knock down any light sneaking through by a couple stops.

Not being too familiar with 120 film, I put the winder on the wrong side. Rather than cut the two winder holes again, I just moved the film counter window and will just have to read the numbers upside down. I have corrected this in the pattern.

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www.pinholephotos.com

**Photographic Imaging**

The Art Institutes - Get Info on Photography Programs.  
www.artinstitutes.edu



imager

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 **Attachment: filmcountershutter\_7504.jpg**  
1230 downloads - Size: 12.45 KB



<http://idea.uwosh.edu/nick/pinholephoto.htm>

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**Reply: 1 - 12**

dvoracek

**Posted:** March 14th, 2007, 10:59am

f295 Master

Got out my trusty saw and whittled the end of a dowel to fit into the slot in the spool. I probably should have used a half inch dowel, but the 3/8s was all I had. Since it doesn't go too far into the camera body I'm a little concerned about light leaks and losing it. I might build up a cylindrical hole on the exterior sort of like the tripod mount.



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 **Attachment: winder\_5640.jpg**  
1239 downloads - Size: 6.72 KB

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<http://idea.uwosh.edu/nick/pinholephoto.htm>

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**Reply: 2 - 12**

dvoracek

**Posted:** March 14th, 2007, 11:01am

f295 Master

I added spacers in the film bays to keep the spool up near the back, and built up top of the image bay to keep the film nice and tight against the back near the film counter window.



Photon path limiting imager

Posts: 1,006  
Posts Per Day: 0.65

Attachment: inside\_8718.jpg  
1224 downloads - Size: 57.34 KB



<http://idea.uwosh.edu/nick/pinholephoto.htm>

Logged Online

Reply: 3 - 12

dvoracek

Posted: March 14th, 2007, 11:06am

f295 Master

Here it is with backing paper loaded. Got it fit with a .3 Gilder electron microscope aperture. It's 60mm focal length. I'm going to have to go buy a roll of 120. I'm off on vacation next week so it will be a while before I have pictures with it.



Photon path limiting imager

In case there's anyone adventurous out there, I've posted the pattern on my website at <http://idea.uwosh.edu/nick/pinholephoto.htm>

It's on tabloid size paper. For the rest of the world, if you choose SuperB/A3 paper it should fit. That's bigger than tabloid.

Modifying it to be 6x6 should be pretty easy just by cutting 3 cm out of the width and relocating the film counter window.

Nick

Posts: 1,006  
Posts Per Day: 0.65

Attachment: loaded\_4932.jpg  
1225 downloads - Size: 13.47 KB

