

RSS 35P MK2 (2026) User's guide

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The RSS35P is a 35mm panoramic pinhole camera with a frame size of 35x72mm including the sprocket area exposed.

It must be loaded with 2 canisters (film flows from one cannister to another and is rewound in camera at the end of the film. The empty canister can be reused again and again.

Preparing the film:

The empty film canister needs to be prepared as shown with a few cm's of film (Edit – Cut it longer - about 9cm - and you will waste less fresh film when loading the camera). If you have a very old 35mm film you could use that rather than sacrificing a fresh roll.



Once the empty canister is ready the fresh film to be shot must be taped to the empty canister as shown. Cut the leader off the fresh film to get a straight edge. The canisters should look as shown. When taping ensure to tape over edge of the film and fold over to the other side (this is avoid jamming in the camera).



Load the film to the camera:

To begin loading, open the camera as shown. Note the contact wheel is seated in position (circled).



Load the film into the camera as shown (the camera lid will not fit if you try and do it the wrong way). Ensure to seat both canisters with a firm push.



Fitting the lid/Engaging the contact wheel gear and winders:

Fit the lid according to the video here. Start by turning the left winder until it engages and then rotate the right hand winder and frame spacing wheel alternatively by $\frac{1}{4}$ turn or so until they engage. Then tighten the screws to seal the lid. You take the 'slack' film up by holding the wind on knob and winding the supply film tightly into the canister. You can now wind on the frame 1.. this will be 6 turns of the frame spacing for the first photo (2 frames).. then 3 turns for each frame thereafter.

<https://youtu.be/Vs0XJAE45HA>

Exposure guide:

Note that the f number of 135 applies to the centre of the frame and the edges will have a higher f number. In tests with the camera the best results were found by adding two stops to f/135.

This does not include reciprocity or filter factors (if using filter more exposure will be required depending on the filter).

RSS 35P - EXPOSURE CHART

f16	f/135	+2 Stops
1/125	<i>0.6</i>	<i>2.4</i>
1/60	<i>1.2</i>	<i>4.8</i>
1/30	<i>2.4</i>	<i>10</i>
1/15	<i>5</i>	<i>19</i>
1/8	<i>10</i>	<i>38</i>
1/4	<i>19</i>	<i>1m20</i>
1/2	<i>38</i>	<i>2m40</i>
1 sec	<i>1m20</i>	<i>5m20</i>
2 sec	<i>2m40</i>	<i>10m40</i>
4 sec	<i>5m20</i>	<i>22m</i>

Meter at f16 and convert for pinhole camera.
Reciprocity not included.

Rewind and Unload

To rewind the camera simply turn the rewind knob to wind the film back into it's original canister. When fully rewound (the film will stop winding) open up the camera and unload the film. Sometime tuning the camera upside-down and tapping it gently is required to get the film to drop out.

Undo the tape and save the empty roll prepared earlier for the next time you use the camera.

Scanning

Having a lab scan your film you will likely miss out on the sprocket areas unless they offer a special service.

Home scanning works well as you can tape the negatives to the glass of a flatbed scanner. (Using negative holders will make you miss out on the sprocket area). Taping the negatives matt side down works best and will avoid Newton's rings. The images can be flipped afterwards in photoshop or similar software.

That's it! Please consider sharing your photos to the [realitysubtle cameras group](#) on Flickr.