

The Solar Telescope

With this kit you can build a small telescope with 6x magnification. It is basically the same telescope as our small Galileo Telescope, but it also comes with an original BAADER solar® Safety Film that allows direct observation of the sun and the eclipse.

Without the filter, you can use it to project the sun to a size of approx. 5 cm or simply observe nature.

This kit contains:

- 1 die-cut sheet of 0.4 mm cardboard
- 1 sheet of BAADER AstroSolar® Safety Film
- OptiMedia acrylic glass lenses
no. 1, f -35 mm and no. 8, f +225 mm

What you need for completion:

- solvent general purpose adhesive

Assembly Instructions – Please read before commencing

Step 1

Remove all parts carefully from the cardboard plate.

Step 2

Fold all grooved lines back, i.e. away from you when looking at the gold printed side, in order to form edges. Only the four safety flaps **S** are folded towards you.

Step 3

The assembly instructions are printed on the kit and marked **A** to **M**. Follow them in alphabetical order.

Please note:

- The parts which are glued to each other are marked by identical letters.
- Use a solvent-containing all-purpose glue to make sure the lenses hold fast, but do not use super-glue.
- Let the glue dry well before going on to the next step.
- Leave a small gap under the brackets for the solar filter so you can push it through.

Congratulations!

You have built yourself a real working telescope with a 6x magnification. With the solar filter fixed in the brackets – **and only then** – you may look at the sun and, with some luck, see sunspots.

We hope you enjoy crafting and watching!

ATTENTION!

Never look at the sun without the solar filter. Your eyesight will be severely damaged.

How to project a picture of the sun:

1

Take a large cardboard box open at the top (banana box, removal box) and glue a white sheet of paper inside near the bottom of one of the smaller side walls.

2

Place the smaller telescope tube with its hexagonal end (the one without lens) on the opposite side wall, also near the bottom, copy the outline onto the cardboard and cut it out.

3

Push the smaller tube from the inside through the hole and the bigger tube from the outside onto the smaller tube. Now the small lens is inside the cardboard, the large one outside.

4

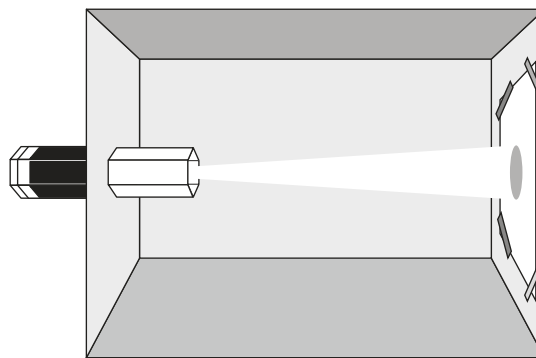
Align the cardboard towards the sun until the light shines into the large lens and an image of the sun appears on the paper.

5

Push the bigger tube back and forth until the image is sharp.

Finished!

Now several people can look at the sun at the same time.



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