

Firstly, we will make a small square hole of around 2cm on the cardboard and then make sort of a pinhole camera. The difference will be that the screen will not be embedded in the camera but we will project the image formed on the wall. After forming the inverted image of the sun through the pinhole we will measure the diameter of the image formed and then apply this formula -

Diameter of sun/distance from sun to earth =  
Diameter of image of sun/ distance from pinhole camera.

And this will result to about 1.4 million kms. This can also be done using the concept of parallax.