

## USET WHITE-LIGHT TELESCOPE

<b>Objective</b>	<b>Lichtenknecker HA achromatic doublet refractor</b>
<b>D</b>	<b>150mm</b>
<b>F</b>	<b>1600mm</b>
<b>F/D</b>	<b>10.666</b>
<b>Diameter of solar image</b>	<b>15.165mm</b>
<b>Full aperture filter</b>	<b>Neutral density (Inconel) Lichtenknecker : ND3.3 +/- 0.1</b>
<b>Bandpass filter</b>	
<b>Type</b>	<b>Schott BG18(blue-green); peak transmission @ 510nm</b>
<b>Bandpass</b>	<b>158nm (BWHM: 415-573nm)</b>
<b>Focal reducer</b>	<b>Plano-convex lens</b>
<b>D</b>	<b>50mm</b>
<b>F</b>	<b>2000mm</b>
<b>Magnification</b>	<b>0.945</b>
<b>Diameter of solar image</b>	<b>14.331</b>
<b>Camera CCD</b>	
<b>Type</b>	<b>QImaging Retiga 4000R</b>
<b>Detector</b>	<b>Kodak KAI-4021, inter-line transfer</b>
<b>Detector size</b>	<b>2048x2048 pixels (pixel size:7.5x7.5 micron)</b>
<b>Sensitive area</b>	<b>15.155x15.155mm</b>
<b>Dynamic range</b>	<b>12 bits (cooling 25°C below ambient)</b>
<b>Readout rate</b>	<b>20MHz, 4 images/s</b>