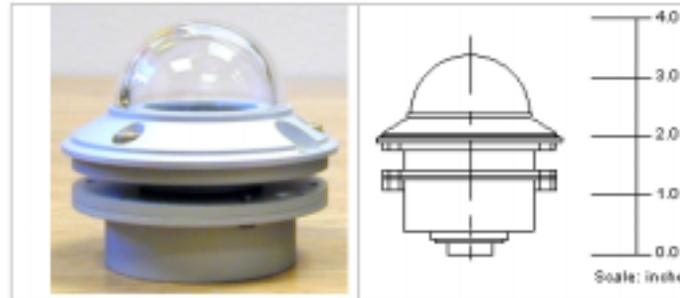


# Broadband Solar Radiometer (BSR)



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## Description:

The **Broadband Solar Radiometer (BSR)** is a modified **Kipp & Zonen CM-22 Pyranometer** (<http://www.kippzonen.com/>) **designed for aircraft applications.**

<b>Bandpass:</b>	<b>0.2 - 3.6 microns</b>
<b>Field-of-view:</b>	<b>hemispheric</b>
<b>Data Rate:</b>	<b>10Hz</b>
<b>Data Format:</b>	<b>RS232C</b>
<b>Data Resolution</b>	<b>16 bit</b>
<b>Temperature Range:</b>	<b>+80C to -65C</b>
<b>Measured quantities:</b>	<b>down and upwelling broadband solar flux (W/m<sup>2</sup>)</b>
<b>Derived quantities:</b>	<b>albedo, net broadband solar flux, solar absorption in atmospheric layer</b>

These flight-ruggedized CM-22 radiometers were modified and flight tested as part of the **Sandia National Laboratory** Department of Energy (DOE) Atmospheric Radiation Measurement (ARM) - Unmanned Aerospace Vehicle (ARM-UAV) program (<http://armuav.ca.sandia.gov>).