SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Area</td>
<td>4 mm x 4 mm</td>
</tr>
<tr>
<td>Spectral Range</td>
<td>2 – 14+ um</td>
</tr>
<tr>
<td>Detectivity (D*pk)</td>
<td>$2.5 \times 10^{10}$ cm - Hz$^{1/2}$/W, min</td>
</tr>
<tr>
<td>Dewar Hold Time</td>
<td>12 hours minimum with liquid N$_2$</td>
</tr>
<tr>
<td>Field of View</td>
<td>60° nominal</td>
</tr>
<tr>
<td>Responsivity (pk), at amplifier out</td>
<td>$1.0 \times 10^5$ V/W HI ; $10^4$ V/W LO, typ</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>5 Hz - 50kHz + typ</td>
</tr>
<tr>
<td>Connections</td>
<td>BNC signal coaxial cable with 3 lead shielded power cable. Red = +V, Black = -V, White/Shield = ground</td>
</tr>
</tbody>
</table>

**Note:** A DB9 connector is provided on units purchased with optional PS-1 Low Noise Power Supply.

This unit is a high performance cryogenically operated HgCdTe photodetector/amplifier. The unit should be at LN2 temperature before turning on power to the amplifier. A funnel is provided to assist in the filling of the dewar, which is best accomplished by gradually filling and topping off over a several minute period.

The amplifier has a dual gain function controlled by a switch on the backplate. The HI (up) position is x10 above the LO (down) position. Output is thru a BNC-type cable, and power is connected thru a shielded multi-wire cable terminated in a 9-pin Dsub connector or solder leads.