This system includes a luminance sensor with an occluder ring for blocking ambient light. Ideal for measuring displays, these sensors are designed with spectral responsivity that matches the human visual system.

Combined with our highly popular S471 portable photometer, the system provides simple and precise measurements. The package includes a battery charger and necessary connector cables.

Under the UDT Instruments brand, Gamma Scientific manufactures a broad range of precision photometers, radiometers, colorimeters and photosensors for optical measurement application.

**Precision-matched Measurement Solutions**

**UDT UNTIT-LL MINI Illuminance Meter System**

**S471 Optical Power Meter**
- High Accuracy Measurements
- Programmable Average Readings in Low Pass or Boxcar Average
- High Speed Update Rate
- Optional USB to Serial Bridge Converter
- Long Battery Lifetime or Use External Power

**265 & 265(M) Photometric Sensor**
- Luminous Intensity Measurements in nit (cd/m²)
- Luminance Measurements footlamberts (fl)
- Integrated fixed-focus lens for non-contact measurement
- Standard 82.6 mm or optional ‘mini’ 62.0 mm occluder

The S471 Optical Power Meter is designed to be used in a laboratory setting or a field environment. The instrument is microprocessor controlled and has three measurement options; direct analog display; RS-232 interface; or analog voltage output. In addition to our exceptional technical and functional capabilities, Gamma Scientific is ISO/IEC 17025 accredited by NVLAP (NVLAP lab code 200823-0).
**S471 OPTICAL POWER METER GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic</td>
<td>7 Gains, auto/manual selection</td>
</tr>
<tr>
<td>Computer Interfaces</td>
<td>RS-232 or USB</td>
</tr>
<tr>
<td>Sample rates</td>
<td>(Display Enabled) &gt; 2 Hz  (Display Disabled) up to 53 Hz</td>
</tr>
<tr>
<td>Analog Output Scale</td>
<td>± 1, 2, or 4 VDC</td>
</tr>
<tr>
<td>Communication Rate</td>
<td>9600 Baud</td>
</tr>
<tr>
<td>Operational Battery Life</td>
<td>32 Hours with backlight off, 24 Hours with backlight on</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>10 to 60° C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to 35° C for up to 1 year</td>
</tr>
<tr>
<td>External Power Source</td>
<td>12 VDC at 3.3 A or 100-240 VAC 50/60 Hz with supplied power adaptor, 40 W max</td>
</tr>
<tr>
<td>Internal Power Source</td>
<td>Rechargeable integral battery pack -- 5 NiMH AA, 1800 mAh batteries</td>
</tr>
<tr>
<td>Calibration Capacity</td>
<td>9 Continuous or 50 single-point</td>
</tr>
<tr>
<td>Calibration Traceability</td>
<td>Traceable to NIST with optional ISO/IEC 17025 accredited</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Up to 99% (non-condensing)</td>
</tr>
<tr>
<td>Regulatory Compliance</td>
<td>TUV, UL, CSA, CE</td>
</tr>
</tbody>
</table>

**265 PHOTOMETRIC SILICON DETECTOR WITH OCCLUDER GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIE V ((\lambda)) Function</td>
<td>(&lt; f1' \leq 3%\rangle</td>
</tr>
<tr>
<td>Active Area</td>
<td>0.34 cm²</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>1 x 10^{-3} to 1 x 10^{4} cd/m²</td>
</tr>
<tr>
<td>Typical Response</td>
<td>1.1 x 10^{-9} A / cd / m² @ 555 nm</td>
</tr>
<tr>
<td>Calibration</td>
<td>ISO17025, NIST Traceable</td>
</tr>
<tr>
<td>Cable</td>
<td>2 meter, included</td>
</tr>
</tbody>
</table>