High-speed hyperspectral camera in the range 1000 - 2500 nm. With its temperature stabilized optics, it provides the stability and sensitivity required in today’s most challenging near-infrared chemical imaging applications, from pharmaceutical quality assurance to food and agriculture analysis. The camera meets the highest requirements in lab, industry and field.

Applications

- Chemical and Material Sorting
- Pharmaceutical manufacture
- Recycling
- Mineral mapping
- Food and agriculture
- Moisture content distribution
- Art research and archiving
- Forensics

SPECIM launches a new fully redesigned and re-engineered hyperspectral SWIR camera with breakthrough features. It has more spatial pixels (384) and still achieves much faster image rates up to 450 frames per second using CameraLink connection. To assure indoor/outdoor usage in varying conditions it now has rugged weather-proof IP54 casing and temperature stabilized optics but still uses less power than before, only 50W nominal.
Spectral Camera SWIR

ACCESSORIES

SPECIM provides various accessories for the Spectral Cameras to broaden their applicability.

Fore objective lenses, specifically designed for optimized performance in 900-2500 nm.

<table>
<thead>
<tr>
<th>Lens</th>
<th>Focal length</th>
<th>FOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLES 15</td>
<td>15 mm</td>
<td>34 degrees</td>
</tr>
<tr>
<td>OLES 22.5</td>
<td>22.5 mm</td>
<td>23 degrees</td>
</tr>
<tr>
<td>OLES 30</td>
<td>30 mm</td>
<td>17 degrees</td>
</tr>
<tr>
<td>OLES 56</td>
<td>56 mm</td>
<td>9 degrees</td>
</tr>
<tr>
<td>OLES Macro</td>
<td>1:1 imaging</td>
<td></td>
</tr>
</tbody>
</table>

Fiber optics with collection lenses or SMA connectors: from 4 to 110 input channels in one spectrometer without a moving multiplexer.

Various scanning systems: mirror scanner on rotary stage for scanning static target and outdoor scenes, and X-stage sample mover for desktop and microscope applications.

ACQUISITION SOFTWARE

SPECIM Spectral Camera SWIR is supported by Lumo software, which allows for:

- data acquisition and saving data in the hard disk
- to set camera parameters
- image visualization in real time
- to control scanner systems

Datacubes are saved in non-proprietary ENVI, Matlab and R compatible format that allows further image processing with several commercial software packages. SPECIM can also provide SDK for quick and efficient application development.