Akribos is a compact, multidirectional, indoor, 3D modelling, video based people counter which analyses in real time and with 97% accuracy* pedestrian traffic flow into retail stores, shopping centres, public facilities, conventions, exhibitions centres, transport hubs (rails, aeroports, etc.).

The Akribos Sensor processes counts, stores and automatically transfers the traffic data collected to a PC or 3rd party analytics software to create key-performance reports and dashboards.

- Indoor 3D video based people counting sensor
- Automated Data transfer via TCP/IP in XML or TXT format
- Works with 3rd Party Analytics/building occupancy software
- Real time multi-directional traffic count (in/out – left/ right/straight)
- Tracks complicated movements (people standing still, stopping, turning back, crowds)
- Easy set-up with pre-configured multicount area settings
- Object shape recognition, direction recognition & 3D warping
- Sensor not easily affected by shadows or sunlight
- Live video stream with remote web access
- Count data storage up to 30 days
- Wide count area maximum 4.5m
- Installation height up 6 meters (via licence key)
- Single and multistore applications
- Easy to install, configure, manage and maintain
- Simple Web-based setup interface

*with up to 65 moving people in one scene
Akribos uses state-of-the-art patented image recognition technology to identify, track and automatically count the number of people passing under the sensor.


### In/out counting method

A counting area is setup specifically for each entrance/location to enable accurate IN and OUT counts.

#### Person Walking Path Count Result Remarks

<table>
<thead>
<tr>
<th>Person</th>
<th>Walking Path</th>
<th>Count Result</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Blue Line &gt; Pink Line</td>
<td>In Count</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Blue Line &gt; Blue Line</td>
<td>No Count</td>
<td>Track back</td>
</tr>
<tr>
<td>C</td>
<td>Pink Line &gt; Pink Line</td>
<td>No Count</td>
<td>Cut Across Area</td>
</tr>
<tr>
<td>D</td>
<td>Pink Line &gt; Blue Line</td>
<td>Out Count</td>
<td></td>
</tr>
</tbody>
</table>

### Multi-directional count

<table>
<thead>
<tr>
<th>Simple entrance</th>
<th>In/out count and traffic flow direction</th>
<th>Escalator and lift use</th>
<th>Store attraction rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Counting entering and exiting traffic</td>
<td>Counting:</td>
<td>Comparing:</td>
</tr>
<tr>
<td></td>
<td>• In/out traffic</td>
<td>• Left and right flow</td>
<td>• Traffic in the walkway</td>
</tr>
<tr>
<td></td>
<td>• Research on escalator and lift use</td>
<td>• Analysis on floor usage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Analysis on floor usage</td>
<td>• Versus entrance rate in a shop</td>
<td></td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>VC1020</th>
<th>VC1050</th>
<th>Features</th>
<th>VC1020</th>
<th>VC1050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface or ceiling mount</td>
<td>Flush mount</td>
<td>Surface or ceiling mount</td>
<td>Flush mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exterior dimensions</td>
<td>85mm H x 193mm W x 34mm D</td>
<td>LED indicator</td>
<td>Power, counting and error</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color variation</td>
<td>White</td>
<td>Count data delivery</td>
<td>Push: FTP, SFTP, FTPS, Pull: TCP/IP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installation height</td>
<td>Standard: 2.3m to 4.2m H (7.5ft. to 13.7ft.)</td>
<td>Video image output</td>
<td>Video image output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*High: 4.0m to 6.0m H (13.1ft. to 19.7ft.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Image sensor</td>
<td>CMOS image sensor</td>
<td>Camera error</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counting accuracy</td>
<td>60 people is the maximum number of people we can detect in a single screen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External terminals</td>
<td>R4/S connector and DC jack</td>
<td>R4/S connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply power voltage</td>
<td>DC 48V (PoE: IEEE802.3af Class 0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric consumption</td>
<td>Max 7W</td>
<td>Counting method</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to 50°C (32°F to 122°F)</td>
<td>3D virtual modeling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>30% to 85% non-condensing</td>
<td>Coverage area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coverage area</td>
<td>1.8m W (at 2.3m H) (7.5ft.)</td>
<td>4.5m W (at 3m to 4.2m H) (9.8ft. to 13.7ft.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Approx. 4m W (at 6m H) (13.1ft.) (ABRS-PC UL94 V-O/White)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>3.35in. H x 7.6in. W x 1.34in. D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counting:</td>
<td>Multiple directions, leave out shadows, sunlights/lighting and shopping carts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Camera error</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 227g (7.7oz)</td>
<td>Category 5 UTP cable or higher, maximum cable length 100m to hub</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>DC 48V (PoE: IEEE802.3af Class 0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>24VDC (DCJack)</td>
<td></td>
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### Analytic software

The data transferred by the Akribos sensors in XML or Text format will be easily used by an existing analytics software.