inView 360 Fusion Around Vehicle Monitoring System

inView 360 is an around vehicle monitoring system that eliminates blind spots by giving drivers a real-time 360 degree view around the vehicle. Four cameras are strategically placed around the vehicle to capture a 195 degree ultra-wide angle view of each side of the vehicle. These four views are blended and stitched together in an Electronic Control Unit (ECU) and then displayed to the driver in real-time as a single image on the dash-mounted monitor.

Key Features

- Eliminate blind spots with a 360 degree bird’s eye view around the vehicle
- Four ultra-wide camera angles on each side of the vehicle display on monitor depending on operating conditions
- 7” Dash-mounted monitor displays split screen with bird’s eye plus front/rear/side view depending on operating conditions

Key Components

- Four Cameras
- Electronic Control Unit (ECU)
- 7” dash-mounted monitor
## inView 360 Technical Specifications

### Cameras

<table>
<thead>
<tr>
<th>Mechanical/General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Die cast Aluminum</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>21.0 x 21.0 x 24.5 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>50g</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Video</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Output</td>
<td>NTSC 720 (H), 480 (V)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Aperture (F-stop)</td>
<td>2.0</td>
</tr>
<tr>
<td>Viewing angle (H)</td>
<td>195°</td>
</tr>
<tr>
<td>Viewing angle (V)</td>
<td>148°</td>
</tr>
<tr>
<td>Viewing angle (D)</td>
<td>200°</td>
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</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-30° ~ +70° C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40° ~ +85° C</td>
</tr>
<tr>
<td>Environmental Rating</td>
<td>Outdoor IP 67</td>
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</table>

### Electronic Control Unit

<table>
<thead>
<tr>
<th>Mechanical/General</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Mounting Options</td>
<td>Metal Bracket</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>106 x 32 x 149 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>225g + 22g (Bracket)</td>
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</table>

<table>
<thead>
<tr>
<th>Video</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Camera Input</td>
<td>NTSC 4CH</td>
</tr>
<tr>
<td>Video Output</td>
<td>Two NTSC ports for monitor and DVR connection</td>
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</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>&lt;6.5W (with camera)</td>
</tr>
<tr>
<td>Typical Supply Voltage</td>
<td>9V to 36V</td>
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</table>

<table>
<thead>
<tr>
<th>Environment</th>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>-20° ~ +75° C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40° ~ +85° C</td>
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</table>

### Monitor

<table>
<thead>
<tr>
<th>Mechanical/General</th>
<th></th>
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<tbody>
<tr>
<td>Mounting</td>
<td>U-bracket with adjustable tilt angle</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>5.25 x 1 x 7 in (133 x 25 x 178mm), excluding sunshade and mounting bracket</td>
</tr>
<tr>
<td>Weight Monitor &amp; Bracket</td>
<td>0.9 lbs (0.4 kg)</td>
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<table>
<thead>
<tr>
<th>Video</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Display</td>
<td>TFT Active Matrix system</td>
</tr>
<tr>
<td>Size</td>
<td>7&quot; diagonal (16:9 Aspect Ratio)</td>
</tr>
<tr>
<td>Resolution</td>
<td>800 (H) x 480 (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
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</table>

<table>
<thead>
<tr>
<th>Electrical</th>
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<tbody>
<tr>
<td>Power Input</td>
<td>DC 10.5V – 32V</td>
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</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-4 to 158 °F (-20 to 70°C)</td>
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</table>