Compact analog cameras are common everywhere, from law enforcement to unmanned vehicles. Camera shake and vibration—caused by moving platforms, weather and long-range zoom—challenge system performance. SRI has the solution: the ILS-5000-SD real-time video stabilization module.

The ILS-5000-SD was designed for original equipment manufacturer (OEM) analog cameras, such as Sony® FCB-EX and FCB-EX-E standard definition block cameras. It offers SRI’s powerful video stabilization technology—built on decades of image processing expertise—in an off-the-self configuration. At a price comparable to the typical OEM analog camera, the video stabilizer corrects for unwanted vertical, horizontal and rotational motion across a wide range of shake frequencies.

Thanks to the ILS-5000-SD, it has never been simpler to upgrade compact analog cameras, making video easier to see, interpret and act upon.

Acadia® ILS-5000-SD™ Video Stabilization Module for Analog OEM Cameras

Applications
- Unmanned air and ground vehicles
- Robotics
- Machine vision
- Border protection
- Law enforcement (including dashboard cameras)
- Traffic monitoring
- General surveillance
- Visible and infrared cameras

Capabilities
- Stabilizes video, dramatically reducing unwanted horizontal, vertical and rotational motion
- Covers a wide range of shake frequencies to fit a variety of applications
- Supports the Sony VISCA® serial protocol
- Enables video stabilization and image sharpening on/off control via serial command
- Offers optional CVBS interface board for integration with all NTSC/PAL standard definition cameras
- Supports post-stabilization onscreen display (OSD) insertion
- Compensates for low-light, low-context images
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>ILS-5000-SD</th>
<th>CVBS Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (L x W x H)</td>
<td>50 mm x 50 mm x 9 mm</td>
<td>27 mm x 27 mm x 8 mm</td>
</tr>
<tr>
<td></td>
<td>(1.97 in x 1.97 in x 0.36 in)</td>
<td>(1.05 in x 1.05 in x 0.32 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>14 g (0.49 oz)</td>
<td>5 g (0.18 oz)</td>
</tr>
<tr>
<td>Power</td>
<td>6 – 12 VDC, 1.8 W at 12 VDC typical</td>
<td></td>
</tr>
<tr>
<td>Environmental</td>
<td>-30° C to 70° C (-22° F to 158° F); Humidity 5% to 95% non-condensing</td>
<td></td>
</tr>
<tr>
<td>Video Format</td>
<td>NTSC / PAL</td>
<td></td>
</tr>
<tr>
<td>Video Input Connector</td>
<td>Sony FCXB-EX / EX-E 9-pin</td>
<td>MCX or 20-pin FFSD</td>
</tr>
<tr>
<td>Video Output Connector</td>
<td>9-pin JST</td>
<td></td>
</tr>
<tr>
<td>Electronic Stabilization</td>
<td>Corrects for translation, rotation and scale; 80-ms latency</td>
<td></td>
</tr>
<tr>
<td>Serial Communication</td>
<td>RS-232 / RS-422 / RS-485</td>
<td></td>
</tr>
<tr>
<td>Setting Control</td>
<td>VISCA or serial</td>
<td></td>
</tr>
</tbody>
</table>

## Interface Board Connectors

- **DC Input / Video Out**
- **Communication Header**
- **Sony FCXB-EX/EX-E 9-pin Connector for Video, Power, Rx/Tx**
- **20-pin FFSD Connector**
- **Video, Power, Rx/Tx**
- **MCX Video Connector**
- **Optional interface board for other SD cameras**

### ILS-5000-SD for Sony SD block cameras, pictured actual size

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**SRI International**

SRI International creates world-changing solutions to make people safer, healthier, and more productive. SRI, a research center headquartered in Menlo Park, California, works primarily in advanced technology and systems, biosciences, computing, and education. SRI brings its innovations to the marketplace through technology licensing, spin-off ventures and new product solutions.

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