Automatic inspection
Robot vision
Measurement
Checking
Sorting
Positioning
Completeness detection
Presence check
Surface inspection
Part checking
Integrated tool presetting
Metal inspection
Medical inspection
Marker control
Coplanarity
BGA check
Contour check
Defects detection
Contamination detection
Bar code reading
Datamatrix-code
Thread inspection
Fabric inspection
Paper inspection
Plastic inspection
Automotive inspection
Dash board inspection
Display inspection
Pattern matching
Pharma code
Blister control
3D recognition
Drill measurements

Highspeed smart cameras for Machine Vision

- Dual Core ARM
- User-programmable FPGA
- LINUX OS
- XILINX ZYNQ
New Smart Camera with FPGA for highspeed Machine Vision

The RazerCam series is ultra small with powerful processing capabilities and is based on the XILINX ZYNQ SoC. Equipped with a Dual Core ARM, user-programmable FPGA and 10 programmable I/Os. The camera offers efficient image capturing and processing capabilities and can be easily programmed for specific OEM applications. The RazerCam hardware is a compact machine vision system for the industrial automation areas. Additionally the camera has a IP65 body.

The RazerCam is equipped with either CMOS or CCD sensors with global exposure in different resolutions, in gray or in color and a variety of industrial field-bus standards, such as CAN/RS485.

Applications

- Industrial Automation
- Motion Control
- Machine Vision
- Robot
- AGV

The system is available with the EVT Library or the EyeVision software, making machine vision solutions easy to solve, especially with the image processing operating system EVOS.
### Core

<table>
<thead>
<tr>
<th>CPU</th>
<th>800MHz/1GHz Dual Core ARM CORTEX A9</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>Linux 3.6</td>
</tr>
<tr>
<td>RTC</td>
<td>✔</td>
</tr>
</tbody>
</table>

### Memory

<table>
<thead>
<tr>
<th>DDR3</th>
<th>512 MB, 1 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH</td>
<td>4 GB, 8 GB, 16 GB</td>
</tr>
</tbody>
</table>

### Image Sensor

<table>
<thead>
<tr>
<th>Resolution</th>
<th>752 x 480</th>
<th>2056 x 1560</th>
<th>4096 x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image type</td>
<td>1/3&quot; CMOS</td>
<td>2/3&quot; CMOS</td>
<td>2/3&quot; CMOS</td>
</tr>
<tr>
<td>Pixel depth</td>
<td>8/10 – bit</td>
<td>8/12 – bit</td>
<td>8/10 - bit</td>
</tr>
<tr>
<td>Frame rate</td>
<td>60 fps</td>
<td>30 fps</td>
<td>10000 fps</td>
</tr>
<tr>
<td>Dynamic range</td>
<td>60dB/120dB</td>
<td>60dB/120dB</td>
<td>53dB</td>
</tr>
<tr>
<td>Color</td>
<td>M/C*</td>
<td>M/C*</td>
<td>M/C*</td>
</tr>
</tbody>
</table>

### IO

<table>
<thead>
<tr>
<th>Programmable I/O</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet</td>
<td>10/100 M</td>
</tr>
<tr>
<td>CAN / RS-485</td>
<td>yes</td>
</tr>
</tbody>
</table>

### Lighting

<table>
<thead>
<tr>
<th>Integrated light</th>
<th>350mA MAX (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>External light</td>
<td>✔</td>
</tr>
</tbody>
</table>

### Power supply

<table>
<thead>
<tr>
<th>9~ 30 VDC, 4W</th>
</tr>
</thead>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Size</th>
<th>64 x 47 x 29 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mount</td>
<td>C-Mount / S-Mount</td>
</tr>
<tr>
<td>Material</td>
<td>Metal</td>
</tr>
<tr>
<td>IP</td>
<td>IP-65</td>
</tr>
<tr>
<td>Weight</td>
<td>120g</td>
</tr>
</tbody>
</table>

### Software

| EVOS, EVT Lib, EyeVision |

* M = Monochrome, C = Color

All systems are easy to configure, such as via the Webserver.

### Key Features

- Small form factor
- Low power consumption
- Up to 10 programmable IO
- Industrial field bus CAN/ RS485/ Ethernet
- ARM-CORTEX A9 Dual Core
- 1 GB DDR 3
- Up to 16 GB FLASH
- Flexible triggering
- Built-in LED driver
- Linux
- EVOS:
  - Remote Control
  - EyeControl
  - EyeView
- EVT Lib: C / C++
- EyeVision: Drag-and-Drop

### Contact Information:

Please forward any questions you may have to: info@fsinet.com or click here