Imperx: C4410

The POE-C4410 camera features the Sony Pregius IMX367 Global Shutter CMOS sensor with a native resolution of 4432 x 4436 in a 4/3” optical format delivering up to 6 frames per second with GigE Vision® Power over Ethernet (PoE) output. The Sony Pregius image sensor delivers outstanding sensitivity and excellent image quality. Imperx puts you in control by providing full access to raw data without corrections. Using the simple intuitive graphical user interface, you can quickly apply image corrections, if desired. The C4410’s flexibility, image quality, and speed make it suitable for a broad range of diverse and demanding applications, but “one size doesn’t fit all,” and Imperx can help optimize the camera to your exact requirements.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Interface</td>
<td>GigE Vision® with Power over Ethernet (PoE)</td>
</tr>
<tr>
<td>Resolution</td>
<td>4432 (H) x 4436 (V)</td>
</tr>
<tr>
<td>Sensor</td>
<td>Sony Pregius IMX367 CMOS Color/Mono</td>
</tr>
<tr>
<td>Sensor Format</td>
<td>15.3 mm (H) x 15.3 mm (V), 4/3” optical format</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>3.45 microns square</td>
</tr>
<tr>
<td>Shutter</td>
<td>Global shutter (GS)</td>
</tr>
<tr>
<td>Sensor Digitization</td>
<td>12-bit</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>6 fps (8-bit), 3 fps (10-bit/12-bit unpacked), 4 fps (10-bit/12-bit packed)</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>71 dB</td>
</tr>
<tr>
<td>Output Bit Depth</td>
<td>8, 10, 12-bit</td>
</tr>
<tr>
<td>Analog/Digital Gain</td>
<td>Manual, Auto; 0 dB – 48 dB, 480 steps</td>
</tr>
<tr>
<td>Digital Gain</td>
<td>1x (0 dB) to 4x (12 dB) with a precision of 0.001x</td>
</tr>
<tr>
<td>Black Level Offset</td>
<td>Manual (0 – 255), Auto</td>
</tr>
<tr>
<td>White Balance</td>
<td>Manual, Auto, Off</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>1 μs/step, 30 μs to 16.0 s</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Off, Manual, External, Auto</td>
</tr>
<tr>
<td>Regions of Interest (ROI)</td>
<td>2 ROI</td>
</tr>
<tr>
<td>Binning</td>
<td>1x2, 2x1, 2x2</td>
</tr>
<tr>
<td>Sub-sampling</td>
<td>1x2, 2x1, 2x2</td>
</tr>
<tr>
<td>Trigger Inputs</td>
<td>External, Pulse generator, Software</td>
</tr>
<tr>
<td>Trigger Options</td>
<td>Edge, Pulse width, Trigger filter, Trigger delay, Debounce</td>
</tr>
<tr>
<td>Trigger Modes</td>
<td>Free run, Standard, Fast</td>
</tr>
<tr>
<td>External Inputs/Outputs</td>
<td>2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)</td>
</tr>
</tbody>
</table>
Imperx: C4410 Applications

The POE-C4410 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

Aerospace ● Satellites ● Surveillance ● Ball Grid Array ● Printed Circuit Board Inspection ● Motion Analysis ● Broadcast Television ● Telepresence ● Unmanned Aerial Vehicles ● Machine Vision ● Intelligent Traffic Systems ● Aerial Imaging ● Open Road Tolling Systems ● Situational Awareness

Absolute Quantum Efficiency

Color Spectral Response  
Mono Spectral Response

Dimensions

Output Interface
GigE Vision® with Power over Ethernet (PoE®)

Sensor Types available
Monochrome  
Bayer Color

Lens Mounts
F-Mount (Default)  
M42 (Optional)  
Canon EF Mount (Optional)

Accessories (Sold separately)
PS12V04A-Power Supply w/ 1 input and 1 output

Hirose Connectors

Power and I/O Interface

1. 12 VDC Return
2. +12 VDC Power
3. Reserved
4. Reserved
5. OUT2 RTN (OPTO)
6. OUT1 RTN
7. OUT1 (TTL)
8. IN1 (OPTO)
9. IN2 (LVTTL)
10. IN1 RTN
11. IN2 RTN
12. OUT2 (OPTO)

Connector: Hirose HR10A-10R-12PB(71)

Ordering Information

Entire Systems ● Situational Awareness
Aerospace ● Satellites ● Surveillance ● Ball Grid Array ● Printed Circuit Board Inspection ● Motion Analysis ● Broadcast Television ● Telepresence ● Unmanned Aerial Vehicles ● Machine Vision ● Intelligent Traffic Systems ● Aerial Imaging ● Open Road Tolling Systems ● Situational Awareness

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Imperx:

GigE Vision Compliant Camera

Configure Gen<1>Cam

POE-C6410x-xF000

PS12V04A-Power Supply w/ 1 input and 1 output

Industrial Cameras & Imaging Systems

Quality Management System ISO 9001:2015 Registered
Environmental Management System ISO 14001:2015 Registered
DDTC Registered (Directorate of Defense Trade Controls, US Department of State)

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