Introducing the XC-2 – the next-generation high-speed camera from Xcitex for use with our acclaimed ProCapture motion capture systems. The XC-2 provides users with high definition for their application recordings. Select from a wide range of frame rates beginning at 5 fps up to a maximum of 1000 fps. The XC-2 also offers multiple resolution choices up to 1920 x 1080 pixels.

Optimized for low-light situations, the XC-2 is ideal for industrial applications where high sensitivity and high frame rates are required. The global shutter ensures that even high-speed applications with extremely short exposure times are captured.

The XC-2 camera has been designed to provide flexibility in creating a recording environment for your unique application needs. Using CMOS image sensor technology, the XC-2 delivers the perfect balance of light sensitivity, high recording speed, fast shuttering, and high resolution. Excellent image quality is achieved with a state-of-the-art 2.1 megapixel resolution sensor based on 5.5 µm square pixels.

This chart is a sampling of frame rates/resolution specifications available from the XC-2 camera.
Specifications

Spectral response of XC-2 CMOS Image Sensor

<table>
<thead>
<tr>
<th>Wavelength [nm]</th>
<th>Quantum Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>0%</td>
</tr>
<tr>
<td>500</td>
<td>10%</td>
</tr>
<tr>
<td>600</td>
<td>20%</td>
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<tr>
<td>700</td>
<td>30%</td>
</tr>
<tr>
<td>800</td>
<td>40%</td>
</tr>
<tr>
<td>900</td>
<td>50%</td>
</tr>
<tr>
<td>1000</td>
<td>60%</td>
</tr>
</tbody>
</table>

Resolution (total) 1920 x 1080 pixels (maximum)

Pixel size 5.5 µm x 5.5 µm

Active Optical area 10.6 mm x 5.9 mm (maximum)

Spectral range 350 to 900 nm (at 10% of peak responsivity)

Shutter mode Global shutter

ISO Mono: ISO 3600
Color: ISO 2400

Image Sensor

Technology CMOS active pixel (APS)

Scanning Systems Progressive scan

Resolution (total) 1920 x 1080 pixels (maximum)

Pixel size 5.5 µm x 5.5 µm

Active Optical area 10.6 mm x 5.9 mm (maximum)

Spectral range 350 to 900 nm (at 10% of peak responsivity)

Shutter mode Global shutter

ISO Mono: ISO 3600
Color: ISO 2400

Camera

Grayscale resolution 8 bit / 10 bit

Fixed pattern noise (FPN) < 1 DN @ 8 bit / correction ON

Operating temperature 0°C to +50°C

Power +12 V DC (±10%) Power consumption < 4.2 W

Dynamic Range 60 db

Conformity CE / RoHS / WEEE

Optical format 2/3” (12.76 mm diagonal)

Lens Mount C-mount (optional CS-mount)

Accessories included Power supply and 7-meter cable

Dimensions

Dimensions 55 x 55 x 42 mm (w/o lens)

Weight 230 g / 8.1 oz.

FROM MOTION TO DATA TO KNOWLEDGE

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