The SPOT™ Flex Monochrome is an extreme resolution camera with a wide field of view. Deep pixel wells provide high dynamic range, and binning is supported to increase sensitivity. Cooling and 14-bit digital output reduce noise for low light level imaging. The suggested applications for this camera include widefield monochrome imaging, fluorescence, slide scanning, inspection, and phase contrast studies.

The SPOT Flex includes SPOT Basic software (Windows® and Mac® OS) which features real time image previewing, scale bar addition, report generation, time lapse, and measuring capabilities. IEEE 1394 Firewire™ connectivity enables effortless installation on computers and laptop portability. SPOT Flex cameras come with a 2-year warranty and are supported by an experienced team of imaging specialists.

### Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 MHz live mode (dual channel 20 MHz)</td>
<td>High speed imaging for real time viewing</td>
</tr>
<tr>
<td>4 Mp – 64 Mp</td>
<td>Multiple resolution options provide the ability to capture a wide range of samples</td>
</tr>
<tr>
<td>14-bit x 20 MHz capture</td>
<td>Extra bit depth is ideal for image enhancement</td>
</tr>
<tr>
<td>15.2 mm x 15.2 mm imaging area</td>
<td>Large field of view to closely match the field of view in the microscope eyepiece</td>
</tr>
<tr>
<td>IR filter or non-filtered versions</td>
<td>Enhanced flexibility based upon your application needs</td>
</tr>
<tr>
<td>FireWire® interface</td>
<td>Allows for effortless installation, hot-swapping, and laptop connectivity for greater ease of use</td>
</tr>
</tbody>
</table>

SPOT Imaging Solutions™
A division of Diagnostic Instruments, Inc.
Sensor SPOT Software

Quantum Efficiency

Data Sheet: Flex c-Mount/F-Mount Monochrome

**Captured Frame Rates**

<table>
<thead>
<tr>
<th>Binning level</th>
<th>Region of interest</th>
<th>1 x 1</th>
<th>2 x 2</th>
<th>3 x 3</th>
<th>4 x 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2048 x 2048</td>
<td>3.5</td>
<td>6.2</td>
<td>8.5</td>
<td>10.2</td>
<td></td>
</tr>
<tr>
<td>1024 x 1024</td>
<td>6.2</td>
<td>10.6</td>
<td>13.5</td>
<td>15.3</td>
<td></td>
</tr>
<tr>
<td>512 x 512</td>
<td>9.7</td>
<td>16.1</td>
<td>19.0</td>
<td>20.4</td>
<td></td>
</tr>
<tr>
<td>256 x 256</td>
<td>13.7</td>
<td>21.7</td>
<td>23.9</td>
<td>24.5</td>
<td></td>
</tr>
<tr>
<td>50 x 50</td>
<td>16.3</td>
<td>21.7</td>
<td>23.9</td>
<td>24.5</td>
<td></td>
</tr>
</tbody>
</table>

**SPOT Software Features**

- Live mode viewing window with controls
- Image capture window
- Image capture setups are user defined, named and saved
- Auto or manual exposure for Live and captured images
- Zoom control on Live and captured images
- Auto white balance
- Spot or average metering
- Flatfield correction
- Annotation
- Measurement tools
- Image enhancement tools
- Sequential image capture and playback
- Report generator
- Interactive print dialog
- Help menu

**Computer Operating System Compatibility**

- Windows®: XP SP3 (32-bit), Vista (32 or 64-bit), 7 (32 or 64-bit) and 8 (32 or 64-bit)
- Mac®: OS 10.6 - 10.8

**Minimum Computer Requirements**

- PC: 1GHz Pentium 4 (or equivalent x86 SSE2 processor), 1 GB RAM, IEEE 1394a port
- Mac®: Intel processor, 1 GB RAM, IEEE 1394a port
- Mac® and PC video: 24-bit color @ 1024 x 768 resolution

**SPOT Advanced Software Modules (Optional)**

- Available (adds image display intensity scaling, peripheral device control, extended depth of focus and extended third party interface)

**Software Development Kit**

- Available for Mac® and Windows®

**Warranty**

- 2 years from date of purchase

**Items Included**

- Camera
- FX1500, FX1501, FX1510, FX1511
- Lens Mount
- C-mount (F-mount available)
- Computer Interface
- FireWire® IEEE 1394a interface
- Trigger Connectors
- Camera ready (TTL)
- External trigger input (TTL)
- Exposure sync output (TTL)
- Tripod Mount
- 1/4"-20 UNC
- Weight
- C-Mount 2.4lbs. (1.09kg)
- F-Mount 2.4lbs. (1.09kg)
- Size
- (C-Mount) 5.77" x 4.02" x 3.15" (147mm x 102mm x 80mm)
- (F-Mount) 5.77" x 4.02" x 4.29" (147mm x 102mm x 109mm)
- Power Requirements
- 100-240 VAC, 47/63Hz
- Operating Environment
- 0 to 30°C ambient, 0 to 80% relative humidity (non-condensing)
- Certifications
- CE, FCC Class A, EN60950, RoHS
- **SPOT Basic Software**
  - Live mode viewing window with controls
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- 2 years from date of purchase

**Items Included**

- Camera Head
- With lens cap
- FireWire® cables
- Data cables (6-pin and 6 to 9 pin)
- Power supply
- With power cord, 2.29" (58mm) x 5.20" (132mm) x 1.18" (30mm), 0.70 lbs. (0.32kg)
- Quick Start Installation Guide
- Instructions on how to get up and running quickly
- Software CD
- Includes SPOT Basic software and User Guide
- Warranty
- 2 years from date of purchase