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Data Sheet

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All Domestic customers are required to sign the End Use Statement. All International customers need an Export License.

Maxicam4000

Intensified Digital High Definition CCD Camera

Applications Include:

- ✓ **Microscopy-Fluorescence, Single Molecule**
- ✓ **Astronomy**
- ✓ **Combustion Research**
- ✓ **Bioluminescence**
- ✓ **Other Scientific Low Light Level Imaging**

Features:

- ✓ **Gen III Intensifier**
- ✓ **Built-in Brightness Protection**
- ✓ **Over 80,000 Luminous Gain**
- ✓ **HD (1920x1080/16:9) Format**
- ✓ **Negligible Shading and Distortion**
- ✓ **Full Computer Control**
- ✓ **Compact Design**
- ✓ **Long Life**

The **Maxicam4000** is a fully computer controlled digital Intensified CCD camera. It features a 1920x1080 (16:9) HD CCD running at 33 fps with full frame exposure. An alternative version features a 1600x1200 sensor format. A Gen III image intensifier is fiber-optically coupled to the 12-bit camera. Extended Blue, High QE, UV and Pinnacle performance options are available. 3ns gating is also available as an option.

The **Maxicam4000** features a compact design and includes a built-in brightness (over-exposure) protection circuit.

Specifications:

- Type: **Generation III MCP Image Intensifier**
- Input Window: **Glass**
- Active Area: **18 mm**
- Photocathode: **GaAs**
- Response: **Standard – 450 to 900nm**
Extended Blue – 350 to 900nm
Gen II UV – 200 to 700nm
- Output Window: **Fiber Optic**
- Phosphor: **P- 43**
- Persistence: **1.2 ms to 10%**
- Peak Output: **560 nm**
- Gain Range: **2,500 to 80,000 FL/FC**
- Gating Range: **50ns to 1ms (in 20ns increments)**
- Gating Delay Range: **0ns to 2ms (in 20ns increments)**
- Geometric Distortion: **<1%**
- Shading: **<10%**
- Sensor Format: **1920x1080 or 1600x1200**
- Control: **CameraLink or Gigabit Ethernet and RS-232 (can be converted to USB)**
- Life: **10,000 hours**