

## Loats Associates, Inc

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## High Resolution Colony Counting System Specifications

### **Workstation**

Automated System operations are controlled through a **Computer** with the following typical configuration:

- Tower Configuration Computer, 19"LCD Color Monitor,
- 1 GB DDR 533MHz SDRAM, 250GB Hard Drive,
- DVD±/R±RW/CD-R/RW Recorder,
- 3 Year Parts & Labor Limited Warranty, (Computer must be returned to Loats Associates, Inc. for warranty service),
- Microsoft Windows XP Professional operating system software,
- Microsoft Office 2003 Small Business version applications software,
- Loats Associates High Resolution Colony Counting System Software,
- Software security block
- User manual.

### **Self-Contained Colony Acquisition Unit**

Colony Plates are loaded into the Self-Contained Colony Acquisition Unit for reading. The unit contains a camera, lens and ElectroLuminescent Light Source.

### **Camera**

For Image Capture the system uses a **QImaging MicroPublisher 5.0 RTV Color Digital Camera** which features:

- a zero-defect 2/3" 2560 X 1920 pixel progressive scan CCD with five million (3.4 X 3.4µm) imaging cells and overlaid Bare-Pattern RGB Color Filter Array,
- The CCD and associated electronics are housed in a lightweight (710g) camera body
- the camera is linked directly to the host computer through an IEEE 1394 (FireWire) cable for power and programmatic control of camera functions;
- the camera provides 10 bit digital output per channel (30bit RGB Color),
- programmable gain, offset, binning and exposure control, and
- real time transfer of image data to display RAM.
- Camera includes 1 year limited warranty.

The QImaging MicroPublisher 5.0 RTV combines an ultra-high resolution sensor format with real-time viewing at frame rates up to 30 frames per second to provide detailed high-quality color images.

### **Electro-Luminescent Light Source**

- Flat source - minimizes illumination variations
- Reduces glare
- Reduces space requirements