Fall 2011

• New Applications:

- Novel Bioluminescence Imaging *in vitro* and *in vivo*: micro to macro
- Single molecule detection and tracking
- CRET Radiation-induced luminescence
- BRET Qdot Nanoprobes
- TIRF 30 to 1,000 fps

More Speed & Diversity:

- CMOS and sCMOS: up to 5.5 Mpixels (sCMOS) and 500 fps (CMOS)
- Full line of Hamamatsu cameras featuring the ORCA-Flash & ImageEM EMCCDs
- Intensified CCDs: Faster ICCD gating Improved FLIM and long decay (Lanthanide) TRFM
- Updated XR/TURBO: improved S/N and 12 bit outputs, 120-1000 fps operation

• Piper Control[™] Software:

- Faster streaming to RAID
- Improved Micro-Manager integration and support
- Single Photon Detection module
- Real Time ROI measurements including strip chart, tracking and event detection
- Faster TTL I/O and synchronization with external devices (up to 5,000 fps)
- More peripheral devices:
 - Automated Microscopes Nikon, Zeiss
 - Yokogawa CSU-Xı spinning disk confocal
 - Stages, Z-Drives and Filter wheels ASI, Ludl, Piezo Jenna
 - High brightness LED products
 - Data Translation I/O modules

New Hardware:

- High-power large area LED illumination
 - ♦ Uniform field: <1% non-uniformity
 - Up to 16 colors from one module UV to nIR
- ONYX[™] Black Box System. Next generation
 - Configured for whole animal imaging and environmentally controlled well plates
 - Filter wheel and in-box x-y-z positioning system
 - Converts from Macro to Micro visualization 1:1 & 5X lens adapters with 0.5 N.A., 19 mm WD

New Facility (12/1/2011):

- Dedicated imaging lab for on-site proof of concept experiments
- ONYX TM Black Box system for limit of detection imaging, macroview or microview
- Full spectrum of camera options ranging from –Z cooled cathode ICCD's to 5 mpixel CCD and sCMOS
- State-of-the-art PC workstations
- Expanded customer service, R&D and production space

New Software Partners

MotionAnalysis – CellTrak: Morphology and Motility Assessment Software

Faster, More Comprehensive Customer Service & Support

- Net-based desktop porting for immediate assessment & diagnosis, demonstrations & instruction
- New export regulations offer "no waiting" license exempt shipping of SPI technology