IMAGING WORKBENCH

Software for Multichannel Dynamic Fluorescence Image Acquisition and Analysis

Cameras Supported by Imaging Workbench 5

Cooled Digital Cameras

PCO AG (www.pco.de)
Cooke Corp. (www.cookecorp.com)

Present:

SensiCam QE	Very low noise, 1376x1040 pixel, interline, 12-bit, PCI bus interface
SensiCam EM	Electron-multiplying CCD, 1000x1000 pixel, frame transfer, 12-bit, PCI bus interface

Available soon:

pco.1600	Low noise, 1600x1200 pixel, interline, 14-bit, Camera Link interface
pco.1200hs	Very high speed (635 fps), 1280x1024, 10-bit, Camera Link interface
pco.2000	Low noise, 2048x2048 pixel, interline, 14-bit, Camera Link interface

Roper Scientific, Inc. (www.roperscientific.com)

Present:

Cascade 512 FT, BFT	Electron-multiplying CCD, 512x512 pixel, frame transfer, 12-bit, PCI bus interface. >90% QE in BFT model
CoolSNAP HQ, ES, fx	Low noise, typical 1392x1040 pixel, interline, 12-bit
Quantix series	E.g. 1317x1035 pixel, 12-bit
SenSys series	E.g. 1317x1035 pixel, 12-bit
MicroMAX	Princeton camera (NVRAM may require reprogramming for PVCAM compatibility)
PentaMAX	Princeton camera (NVRAM may require reprogramming for PVCAM compatibility)

Andor Technology (www.andor-tech.com)

Present:

IXon DV series	Electron multiplying CCD cameras for ultra-sensitive digital imaging

Hamamatsu Photonic Systems (www.hamamatsu.com)

Present (not a complete list):

ORCA	Older ORCA series cameras with PCI bus interface
ORCA-285 C4742-96-12G04	High resolution: 1344x1024 pixel, interline, 12-bit, Firewire interface, chilled head
ORCA-AG C4742-80-12AG	High resolution cooled: 1344x1024 pixel, interline, 12-bit, Firewire interface, cooled head
ORCAII-ER C4742-98-xx-ER	High performance dual scan: 1344x1024 pixel, interline, 12-bit and 14- or 16-bit, Firewire or PCI bus interface, very cold head
ORCAII-BT-1024 C4742-98-xx-KxG	High resolution back-thinned: 1024x1024 pixel, frame transfer, 12-bit and 16-bit, Firewire or PCI bus interface, very cold head
ORCAII-BT-512 C4742-98-xx-LxG	Back-thinned: 512x512 pixel, frame transfer, 12-bit and 16-bit, Firewire or PCI bus interface, very cold head
Electron multiplier C9100-02	Electron multiplying: 1000x1000 pixel, frame transfer, 14-bit, Camera Link interface, very cold head
Electron multiplier C9100-12	Electron multiplying, >90% QE: 512x512 pixel, frame transfer, 14-bit, Camera Link interface, very cold head

Analog Cameras (RS-170 or CCIR) and VHS

All RS-170 and CCIR cameras are supported through use of a high quality video frame grabber. Listed here are several high quality intensified cameras with video output.

Stanford Photonics (www.stanfordphotonics.com)
Solamere Technology Group (www.solameretech.com)

Present:

XR/Mega-10	Gen III+, Gen “IV” intensified

Video Scope International (www.videoscopeintl.com)

Present:

ICCD-350F	Gen III intensified
ICCD-450CIF	Gen III intensified, cooled

Photonic Science Ltd. (www.photonic-science.co.uk)

Present:

CoolView EM1000/TV	Electron-multiplying camera
Isis-4	Intensified camera
Isis-3	Intensified camera