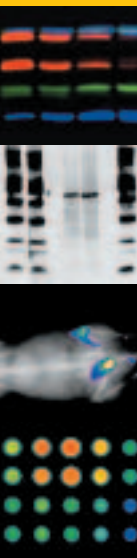




IT'S THE NEW IRONMAN
OF MOLECULAR IMAGING
HARNESS THE POWER OF SUPERIOR
RESOLUTION, ENHANCED SENSITIVITY,
AND UNMATCHED VERSATILITY.

KODAK IMAGE STATION 4000 DIGITAL IMAGING SYSTEMS

Featuring a cooled CCD camera with 4-million pixel resolution, true 16-bit imaging, and more than 5x the sensitivity of our other systems, the new **KODAK Image Station 4000 Digital Imaging Systems** outperform the competition every time.





KODAK Image Station 4000MM Digital Imaging

System—External illuminator allows you to specifically select and apply different wavelengths from 380 to 780 nm to image a wide range of fluorochromes in addition to luminescent, chromogenic, and isotopic labels

Superior Resolution

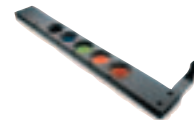
- Resolve features more accurately than other systems using a 4-million pixel CCD and 10x optical zoom for optical resolution up to 10 microns/pixel
- Produce more than 65,000 levels of grayscale resolution in a single capture with the system's 16-bit electronics to accurately measure subtle differences in intensity
- Full illumination and lens correction capability minimize optical artifacts on images and data

Maximum Sensitivity

- Cooled CCD camera and low-noise electronics allow for long exposure times with minimal background
- 2-, 4-, 8-, and 16-pixel binning options allow optimization of sensitivity and resolution
- Closed Optical Path Image (COP) chamber design maximizes sensitivity and resolution by minimizing the distance from the sample to the lens, and isolates the optical path from laboratory contaminants for artifact-free imaging

Unmatched Versatility

- Detect the widest range of labels (luminescence, fluorescence, colorimetric, and radioisotopic) in the widest range of sample formats (gels, blots, plates, tissue, etc.)
- Selectable multi-wavelength illumination from 380 nm to 780 nm allows for specific imaging of a wide range of fluorochromes and label multiplexing (IS4000MM only)
- Capture digital images of radioisotopic markers with patented radioisotopic imaging screen (optional)



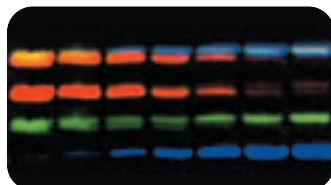
Fast, Convenient Workflow

- Live preview facilitates sample positioning; parfocal design eliminates need to refocus through zoom range
- Eliminate exposure trial and error with Predict Exposure and Auto Stop functions
- Automatically execute multiple exposure routines including Time Lapse and Progressive modes
- Set up and save commonly used exposure routines for one-click access
- Comprehensive image analysis software allows fast, accurate quantitative data including: fragment sizing and mass determination; comparative intensity, geometry, and positional analysis of multiple regions of interest; colony counting; and more

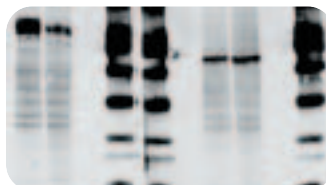


KODAK Image Station 4000r Digital Imaging

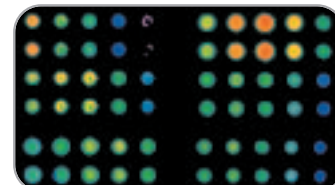
System—Built-in broadband 300 to 400 nm UV epi-illumination provides for imaging of UV fluorescent labels as well as chemiluminescent, chromogenic, and isotopic labels



Multiplexed fluorescence imaging of Western blots using Qdot® Conjugates
(courtesy of Quantum Dot Corporation)



Chemiluminescent imaging of Western blots using Pierce SuperSignal West Pico Substrate
(courtesy of Pierce Biotechnology, Inc.)



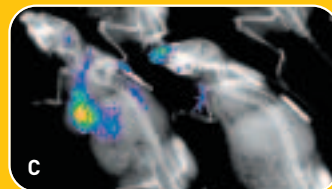
Fluorescent protein microarray,
700 micron spots

SPECIFICATIONS	IS4000MM	IS4000R
Camera		
CCD	2048 x 2048 pixel monochrome CCD	2048 x 2048 pixel monochrome CCD
Cooling	-29°C absolute	-29°C absolute
Lens	10x zoom, 20–200 mm	10x zoom, 20–200 mm
Illumination		
Fluorescence	Selectable multiwavelength epi-illumination, 380–780 nm UV (306 nm) transillumination (optional)	Broadband UV (300–400 nm) epi-illumination UV (306 nm) transillumination (optional)
White Light	White-light epi-illumination and white-light transillumination	White-light transillumination
Emission Filters	Selectable wide-angle filters, 440–830 nm	Selectable wide-band filters, 435–670 nm
Performance		
Field of View	2 x 2 cm to 20 x 20 cm, continuous zoom	2 x 2 cm to 20 x 20 cm, continuous zoom
Optical Resolution	10 microns/pixel	10 microns/pixel
Data Acquisition	16-bit single capture; n-bit data acquisition	16-bit single capture; n-bit data acquisition
Detection Modes	Luminescence, Multiwavelength Fluorescence, Absorbance, Radioisotopic*	Luminescence, UV Fluorescence, Absorbance, Radioisotopic*
Exposure Modes	Single Capture, Multiple Capture, Progressive Exposure, Time-Lapse Exposure	Single Capture, Multiple Capture, Progressive Exposure, Time-Lapse Exposure
Computer		
Interface	IEEE 1394 (FIREWIRE)	IEEE 1394 (FIREWIRE)
Operating Systems	WINDOWS 2000/XP, MACINTOSH OS	WINDOWS 2000/XP, MACINTOSH OS

*requires use of optional KODAK Image Station radioisotopic imaging screen

In-Vivo Imaging Capability

For high-performance imaging of fluorescence, luminescence, or isotopic labels *in-vivo*, the KODAK Image Station In-Vivo FX and F Imaging Systems utilize the Image Station 4000 optical platform in a product configuration designed specifically for small animal imaging. Please contact us for detailed information on Kodak's line of Image Station *in-vivo* imaging systems.



Near-IR imaging *in-vivo* in fluorescence mode (panel A) and with X-ray Imaging Module (panel B). Images were then merged (panel C) using KODAK Molecular Imaging Software, allowing precise co-registration of the fluorescent molecular biomarker with the anatomical radiograph.

PRODUCT SELECTION CHART

	ABSORBANCE IMAGING	LUMINESCENCE	UV FLUORESCENCE	MULTI-WAVELENGTH FLUORESCENCE	ISOTOPIIC IMAGING
Image Station 4000R	●	●	●		
Image Station 4000R + radioisotopic imaging screen	●	●	●		●
Image Station 4000MM	●	●	optional	●	
Image Station 4000MM + radioisotopic imaging screen	●	●	optional	●	●

Complete Systems, Ready to Use

KODAK Image Station 4000MM

Includes Image Station 4000MM unit, 5-position excitation filter slider with two excitation filters of choice, 4-position emission filter wheel with two proprietary wide-angle emission filters of choice, external 150-watt halogen illumination source and mounted fiber-optic light guides, PC or Macintosh computer with 17-inch flat-panel monitor, KODAK Molecular Imaging Software (3 single-user licenses or 3 network licenses), on-site installation and training, and 12-month limited warranty.

CAT No.	Description
864 2985	KODAK Image Station 4000MM with PC and 3 single-user software licenses
895 8142	KODAK Image Station 4000MM with Mac and 3 single-user software licenses
inquire	KODAK Image Station Multimodal Excitation Filter options—380 nm, 465 nm, 535 nm, 555 nm, 625 nm, 700 nm, 720 nm, 755 nm
inquire	KODAK Image Station Multimodal Wide-Angle Emission Filter options—em440WA, em535WA, em570WA, em600WA, em670WA, em700WA, em790WA, em830WA
839 7663	KODAK Image Station MMT UV Transillumination Lid Assembly (120 VAC)
869 0430	KODAK Image Station radioisotopic imaging screen

Other product configurations available; please inquire.

KODAK Image Station 4000R

Includes Image Station 4000R unit, broadband (300–400 nm) UV epi-illumination, 4-position emission filter wheel with 600WB35 interference filter, white-light diffuser panel, PC or Macintosh computer with 17-inch flat-panel monitor, KODAK Molecular Imaging Software (3 single-user licenses or 3 network licenses), on-site installation and training, and 12-month limited warranty.

CAT No.	Description
851 2881	KODAK Image Station 4000R with PC and 3 single-user software licenses
862 9289	KODAK Image Station 4000R with Mac and 3 single-user software licenses
inquire	KODAK Interference Filter Accessory options—435WB35, 535WB35, 570WB35, 600WB35, 670WB35
811 6220	KODAK Image Station RT UV Transillumination Lid Assembly (120 VAC)
869 0430	KODAK Image Station radioisotopic imaging screen

Find out more

For more information, to request pricing, an in-lab demo, or to place an order, call 1-877-747-HELP (1-877-747-4357), option 7. Outside of the U.S., call +1-203-786-5657. Or visit us at www.kodak.com/go/IS4000