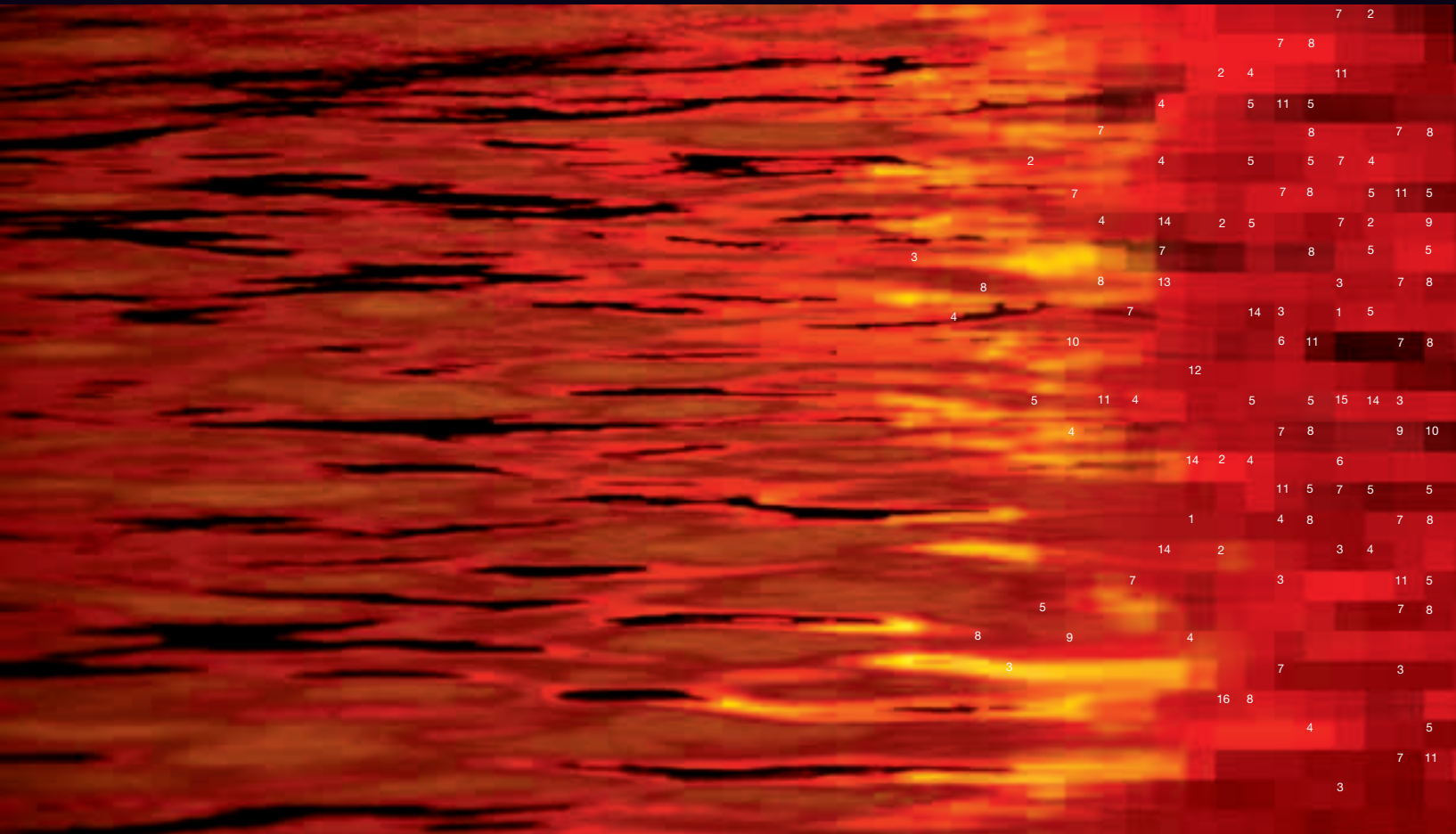


# Molecular Imager® **PharosFX™** Systems



Your Vision Ahead



# Molecular Imager Systems

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Bio-Rad's line of Molecular Imager systems offers a unique selection of specially designed solutions for imaging fluorescent, colorimetric, chemiluminescent, or radiolabeled samples.

While drawing on diverse technologies and performing in a variety of applications, Bio-Rad's Molecular Imager systems share a distinctive set of features: a common software interface, seamless integration with data analysis tools, intuitive instrument controls, compact ergonomic design, and superior data quality.

## **Molecular Imager PharosFX Systems**

These powerful systems are carefully optimized for imaging complex fluorescence applications, and can be used for the sensitive detection and analysis of DNA, RNA, or protein samples in gels, blots, or microplates.





## Molecular Imager PharosFX and PharosFX Plus Systems

The Molecular Imager PharosFX and PharosFX Plus systems are specially designed for imaging the most complex multifluorescence applications. Both systems:

- Image single- and multicolor fluorescence via direct laser excitation, with high sensitivity, high resolution, and precise spectral assignment
- Detect a wide range of fluorophores with optional 488 nm and 635 nm external lasers
- Utilize novel fluorophores when configured with custom emission filters
- Are equipped with a transillumination screen for gel documentation with colorimetric stains
- Integrate seamlessly with PDQuest™ 2-D analysis software and the EXQuest™ spot cutter

The Molecular Imager PharosFX Plus system combines the sophisticated fluorescence imaging capabilities of the PharosFX with the ability to image radiolabeled samples using storage phosphor screens, all in a convenient, ergonomically designed unit.

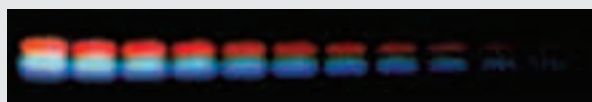
The PharosFX Plus system:

- Accurately quantitates  $^{32}\text{P}$ ,  $^{33}\text{P}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ , and  $^3\text{H}$  over a wide dynamic range (5 orders of magnitude vs. 3 for X-ray film)
- Accommodates most commercially available storage phosphor screens (20 x 25 cm and 35 x 43 cm)



# Fluorescence Detection and Gel Documentation With the Molecular Imager PharosFX and PharosFX Plus Systems

The included Quantity One® software offers turnkey application templates for most common fluorophores and colorimetric dyes. The option of adding 488 nm and 635 nm external lasers to the built-in 532 nm laser ensures excellent application flexibility.



**Limits of detection and separation of fluorescent signal into three color channels.** End-labeled oligonucleotides separated by a Criterion™ 15% TBE gel. Sizes are 20, 25, and 30 bases. Red is Cy5, blue is FAM, and green is Cy3. The FAM and Cy3 dyes comigrate in this gel, resulting in the cyan bands, visible down to 200 amol.

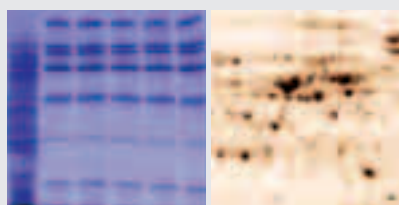
## Traditional and Novel Fluorophore Detection

In both these models, optimized excitation/emission filter combinations deliver optimal signal-to-noise and thus exceptional sensitivity. Flexibility in the choice of filters, together with software control, allows extensive user customization. The PharosFX and PharosFX Plus imagers detect photons with a variable-gain photomultiplier tube (PMT) assembly. The variable PMT gain is software-controlled, and can be used to boost imaging sensitivity for enhanced detection of low-abundance proteins or small quantities of fluorescently labeled nucleotides.

While the PharosFX systems include several installed emission filters to cover a range of applications, they also offer the flexibility to install any filter type that is required for special applications. A filter holder is provided, and the bundled software can store information about custom applications, including the appropriate emission wavelength. PharosFX systems incorporate two fully automated emission filter wheels, with up to five positions that can be used for custom filters.

## Colorimetric Detection

For gel documentation with colorimetric stains, a transillumination screen is included with the standard accessories of the PharosFX and PharosFX Plus systems.



Coomassie Blue R-250 Silver stain

## Standard Filter Wheel Configurations

Position	Wavelength of Excitation Laser					
	532 nm only		532 and 488 nm		532, 488, and 635 nm	
	Filter Wheel A	Filter Wheel B	Filter Wheel A	Filter Wheel B	Filter Wheel A	Filter Wheel B
<b>PharosFX</b>						
1	Blank	605 nm BP*	Blank	605 nm BP	Blank	605 nm BP
2	Blank	Blank	Blank	Blank	Blank	695 nm BP
3	640 nm BP	Blank	640 nm BP	530 nm BP	640 nm BP	530 nm BP
4	Blank	Blank	Blank	Blank	Blank	Blank
<b>PharosFX Plus</b>						
1	Blank	605 nm BP	Blank	605 nm BP	Blank	605 nm BP
2	390 nm BP	Blank	390 nm BP	Blank	390 nm BP	695 nm BP
3	640 nm BP	Blank	640 nm BP	530 nm BP	640 nm BP	530 nm BP
4	Blank	Blank	Blank	Blank	Blank	Blank

\* Bandpass filter

■ = Filter cannot be changed.



Filter holders with emission filters can be easily accessed from the front panel.

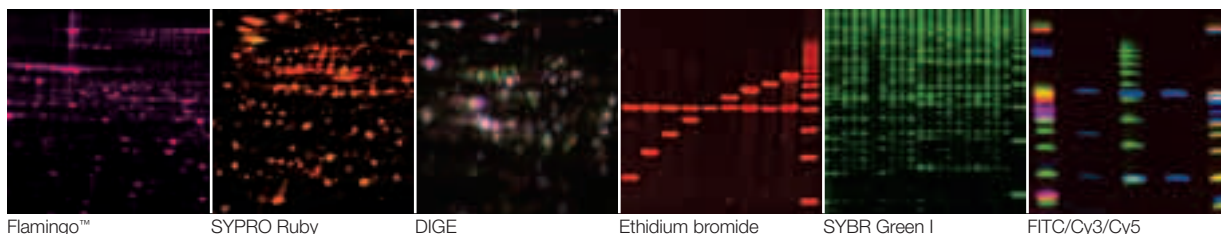


For a unique application, order required emission filter from an optical filter vendor. The PharosFX uses emission filters with standard microscopy filter parameters (diameter, thickness, optical coating).

1. Microscopy-type emission filter.
2. Filter holder.
3. Locking plastic cylinder.

# Advanced Applications for Functional Genomics and Proteomics

Exceptional versatility is what makes the PharosFX and PharosFX Plus the most desirable fluorescence imagers. Their resolution, sensitivity, and scan speed have been specially designed for imaging the most complex 1-D or 2-D gels and blots, or even macroarrays.



## Molecular Imager PharosFX Systems: The Best Choice for Proteomic Applications

The PharosFX and PharosFX Plus systems enable protein detection and expression analysis involving small quantities of low-abundance proteins or subtle changes in expression.

Stain gels with Flamingo fluorescent gel stain and then scan them with a PharosFX system for the most sensitive quantitative detection of total protein in gels.

The PharosFX and PharosFX Plus systems support a broad range of multiplex fluorescence imaging applications in gels and blots, such as Qdot multiplex blotting, DIGE, and gel staining with Pro-Q dyes.

Quickly and easily scan 2-D gels as part of any expression proteomics workflow — or pair the PharosFX or PharosFX Plus with the BioOdyssey™ Calligrapher™ miniarrayer for simple yet efficient protein array printing and scanning. In combination with the EXQuest spot cutter, the PharosFX systems support a compact, convenient, and user-friendly proteomic workflow.

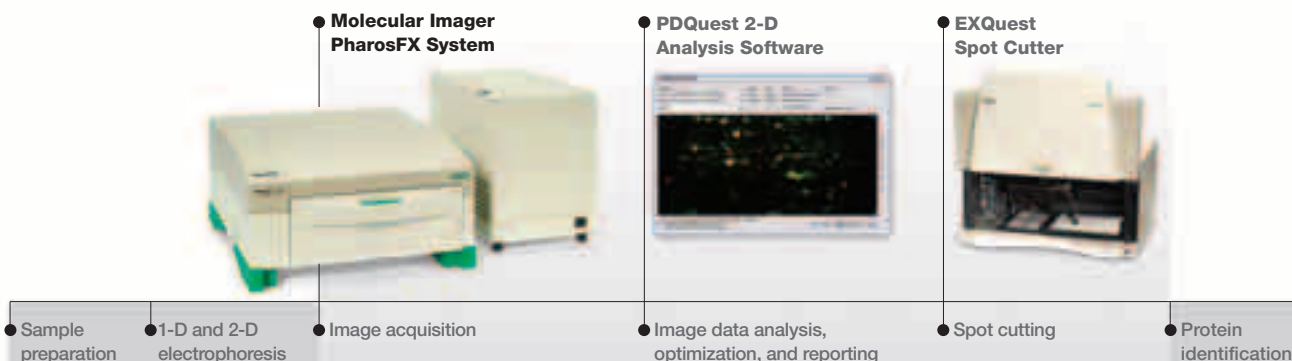
To learn more about the full range of expression proteomics products and applications offered by Bio-Rad, request bulletin 5331, or visit us on the Web at [www.expressionproteomics.com](http://www.expressionproteomics.com)

## Molecular Imager PharosFX Systems: The Best Choice for Genomic Applications

The PharosFX and PharosFX Plus systems are compatible with standard nucleic acid stains such as ethidium bromide, SYBR Green, and Radiant® Red. Their exceptional resolution and multiplexing capabilities enable accurate high-throughput quantitative scanning of fluorescent macroarrays for gene expression analysis. The PharosFX Plus also handles radiolabeled samples for the broadest range of genomic applications.

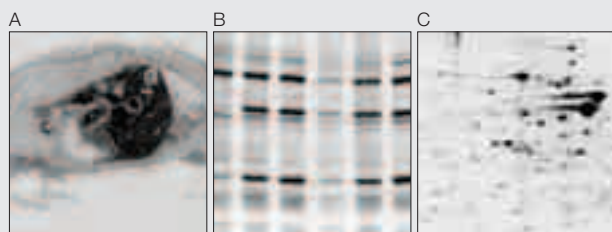
Accurate detection and efficient analysis for RNAi applications can be achieved with the wide range of Bio-Rad-supported protein or gene expression techniques (for more information, go to [www.bio-rad.com/RNAi/](http://www.bio-rad.com/RNAi/)). The PharosFX and PharosFX Plus systems are the imagers of choice to take advantage of the various technologies for qualitative and quantitative assessment of gene silencing.

## Expression Proteomics Workflow





The PharosFX Plus is also designed to handle a variety of storage phosphor applications. Storage phosphor screens — which are sensitive to  $\beta$ -particles,  $\gamma$ -rays, and X-rays — are reusable, and with proper treatment are unharmed by repeated exposure to radioisotopes.



Radiolabeled samples. A, rat ( $^{14}\text{C}$ ); B, DNA ( $^{32}\text{P}$ ); and C, protein ( $^{35}\text{S}$ ).

### Imaging Screen-K

These are general-purpose screens designed for use with commonly used radioisotopes such as  $^{32}\text{P}$ ,  $^{33}\text{P}$ ,  $^{35}\text{S}$ , and  $^{14}\text{C}$ . These screens are covered by a 1 year limited warranty.

### Imaging Screen-K/Tritium

These are specialty screens, available for imaging  $^3\text{H}$ . The screens require special handling and are reusable only with proper care. They are covered by a 6 month limited warranty.



Sample exposure cassette



Screen eraser

### Sample Exposure Cassette

The sample exposure cassette is designed to ensure that close contact is made between the sample and imaging screen. The cassette features a grid-marked surface where the sample is mounted, which allows it to be firmly pressed against the imaging screen to generate a high-quality image.

### Screen Eraser

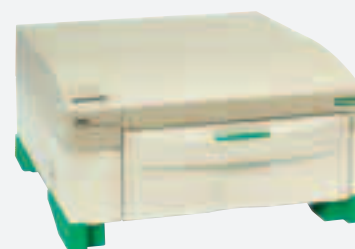
The screen eraser removes any residual signal or excessive background from an exposed storage phosphor screen. The erasure process blanks the screen to a minimal “zero” level, for maximum sensitivity, broad linear response, superior image quality, and quantitative accuracy. Complete erasure of the screen after each exposure extends its useful life.

## Imaging Screen Specifications and Recommended Applications

Screen Name	Application	Key Features	Sizes (W x H)	Catalog #
Imaging screen-K	$^{32}\text{P}$ , $^{33}\text{P}$ , $^{14}\text{C}$ , $^{35}\text{S}$	BaFBr:Eu formulation	35 x 43 cm	170-7841
		Protective coating Easy-to-use format Compatible with standard X-ray cassettes	20 x 25 cm	170-7843
Imaging screen-K/tritium	$^3\text{H}$	BaFBr:Eu formulation Sensitive to weak $^3\text{H}$ signal Easy-to-use format Compatible with standard X-ray cassettes	20 x 25 cm	170-7845

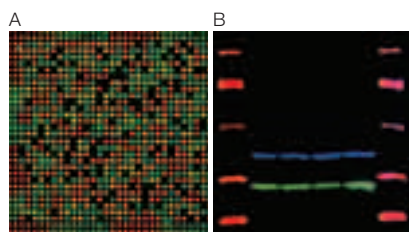
## The Personal Molecular Imager™ (PMI™) System

This imager is another member of the Molecular Imager family that is designed specifically for detection of radiolabeled samples using storage phosphor screens. The PMI has all the storage phosphor detection capabilities and functionality of the top-of-the-line PharosFX Plus. For more information, visit us on the Web at [www.bio-rad.com/imaging/](http://www.bio-rad.com/imaging/)



# Scanning of a Wide Variety of Samples

The PharosFX, PharosFX Plus, and PMI systems are equipped with accessories that allow scanning a wide range of gels, blots, and microplates with high sensitivity and precision.

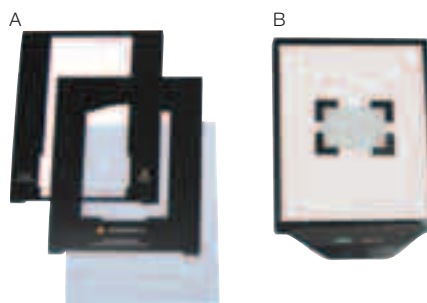


A, 1,536-well microplate labeled with FITC and rhodamine;  
B, western blot with Qdot particles of 605, 655, and 705 nm.

## Accommodates Various Blots and Gels

The glass sample tray that is included with each scanner is moisture-sealed and is ideal for scanning wet blots and gels.

The black aluminum multi-sample trays are designed to accommodate different types of phosphor screens, polyacrylamide gels (within the glass plates), and thick agarose gels. For microplates, a convenient adaptor is provided to position the plates securely during scanning.



Sample tray (170-7811) comes with: A, a transillumination screen for gel documentation of colorimetric stains; B, four gel holders and two frames for positioning smaller storage phosphor screens. All of these components are included with each Molecular Imager PharosFX, PharosFX Plus, or PMI system.



Multi-sample tray I and multi-sample tray II.

## Selection of Appropriate Accessories for Specific Applications

Accessory	Uses	Preparation Notes	Catalog #
Sample tray	Agarose gels; polyacrylamide gels; blots and membranes; colorimetric stains; unmounted storage; phosphor screens	<ul style="list-style-type: none"> <li>■ No gels thicker than 8 mm</li> <li>■ Gels should be wet</li> <li>■ Blots or membranes should be moist</li> <li>■ Use sample holders (170-7813) to keep sample from moving during scan</li> <li>■ For imaging colorimetric stains, use the transillumination screen supplied</li> <li>■ Will accept unmounted screens from many manufacturers, including Kodak, MD, and Fuji</li> <li>■ For working with 20 x 25 cm small-format screens (170-7843), use the alignment template supplied with the sample tray</li> </ul>	170-7811
Multi-sample tray I	Mounted screens (MD format); microplates	<ul style="list-style-type: none"> <li>■ Face MD screens upward inside the tray</li> <li>■ For scanning microplates, use the microplate adaptor (170-7814)</li> <li>■ Microplate adaptor assembly accepts up to 8 microplates</li> <li>■ Plates that can be scanned include 96-, 384-, and 1,536-well formats</li> </ul>	170-7812
Multi-sample tray II	Polyacrylamide gels sandwiched between glass plates; polyacrylamide gels sitting on glass with no upper glass plate; TLC plates	<ul style="list-style-type: none"> <li>■ Make certain that the thickness of the sample and the glass plates fits within the scanner prior to scanning</li> <li>■ The multi-sample tray II ships with three sets of nonslip spacing strips; use these to determine the optimal focus for differential display work</li> </ul>	170-7819

# PharosFX and PharosFX Plus Emission Filter Configurations

## Standard Emission Filters

Application	Dye or Stain	Laser	Emission Filter Wheel A	Emission Filter Wheel B
Fluorophores	Alexa Fluor 488	488 nm	Blank (1)	530 nm BP (3)
	Alexa Fluor 532	532 nm	Blank (1)	605 nm BP (1)
	Alexa Fluor 546	532 nm	Blank (1)	605 nm BP (1)
	Alexa Fluor 635	635 nm	Blank (1)	695 nm BP (2)
	Cy2	488 nm	Blank (1)	530 nm BP (3)
	Cy3	532 nm	Blank (1)	605 nm BP (1)
	Cy5	635 nm	Blank (1)	695 nm BP (2)
	FAM	488 nm	Blank (1)	530 nm BP (3)
	FITC	488 nm	Blank (1)	530 nm BP (3)
	HEX	532 nm	Blank (1)	605 nm BP (1)
	R6G	532 nm	Blank (1)	605 nm BP (1)
	TAMRA	532 nm	Blank (1)	605 nm BP (1)
	Texas Red	532 nm	640 nm BP (3)	Blank (4)
	Multiplexing	DIGE Cy2	488 nm	Blank (1)
DIGE Cy3		532 nm	Blank (1)	605 nm BP (1)
DIGE Cy5		635 nm	Blank (1)	695 nm BP (2)
Pro-Q Diamond		532 nm	Blank (1)	605 nm BP (1)
Pro-Q Emerald		488 nm	Blank (1)	530 nm BP (3)
SYPRO Ruby		532 nm	Blank (1)	605 nm BP (1)
Protein stains	Deep Purple	532 nm	Blank (1)	605 nm BP (1)
	Flamingo	532 nm	Blank (1)	605 nm BP (1)
	Nile Red	532 nm	640 nm BP (3)	Blank (4)
	SYPRO Orange	488 nm	Blank (1)	530 nm BP (3)
	SYPRO Red	532 nm	640 nm BP (3)	Blank (4)
	SYPRO Ruby	532 nm	Blank (1)	605 nm BP (1)
DNA stains	Ethidium bromide	532 nm	Blank (1)	605 nm BP (1)
	SYBR Gold	488 nm	Blank (1)	530 nm BP (3)
	SYBR Green I and II	488 nm	Blank (1)	530 nm BP (3)
Chemifluorescence	AttoPhos	488 nm	Blank (1)	530 nm BP (3)
	ECL Plus	488 nm	Blank (1)	530 nm BP (3)
Radioisotopes (PharosFX Plus)	K screen (Kodak)	532 nm	390 nm BP (2)	Blank (1)
Colorimetric samples (requires transillumination screen)	Coomassie Blue-stained gel or blot	532 nm	Blank (1)	605 nm BP (1)
	Copper-stained gel or blot	532 nm	Blank (1)	605 nm BP (1)
	Silver-stained gel or blot	532 nm	Blank (1)	605 nm BP (1)
	X-ray film (gray type)	532 nm	Blank (1)	605 nm BP (1)
Microplate format	DNA (PicoGreen)	488 nm	Blank (1)	530 nm BP (3)
	$\beta$ -Gal (fluorescein di- $\alpha$ -D-galactopyranoside)	488 nm	Blank (1)	530 nm BP (3)
	GLUS (fluorescein di- $\beta$ -D-glucuronide)	488 nm	Blank (1)	530 nm BP (3)
	DNA (SYBR Green I)	488 nm	Blank (1)	530 nm BP (3)
	Protein (NanoOrange)	488 nm	Blank (1)	530 nm BP (3)
	ssDNA (OliGreen)	488 nm	Blank (1)	530 nm BP (3)

Laser excitation for fluorescence: ■ = 488 nm; ■ = 532 nm; ■ = 635 nm  
Numbers in parentheses define filter positions on the filter wheels.

## System Capabilities Guide

Applications and Features	PharosFX	PharosFX Plus	PMI
Fluorescent			
Blue-excited (488 nm external laser)	○	○	—
Green-excited (532 nm internal laser)	●	●	—
Red-excited (635 nm external laser)	○	○	—
Multiplex applications	●	●	—
Radioisotopic detection (Kodak/Fuji screens) using internal laser of specified wavelength		● (532 nm)	● (635 nm)
Choice of emission filters (including custom filters)	●	●	—
USB2 interface	●	●	●

● = Standard; ○ = Optional; — = Not available.



# Molecular Imager PharosFX Systems

## Specifications

		PharosFX Plus	PharosFX	PMI
Detection limit				
Storage phosphor	<0.95 dpm/mm <sup>2</sup> for 1 hr exposure to <sup>14</sup> C using imaging screen-K <0.15 dpm/mm <sup>2</sup> for 1 hr exposure to <sup>32</sup> P using imaging screen-K	• •		• •
Fluorescence (depends on experimental conditions)	0.2 fmol of FITC end-labeled DNA using 488 nm laser 6 pg of SYBR Green I-stained DNA using 488 nm laser 0.4 fmol of FITC end-labeled DNA using 532 nm laser 25 pg of SYBR Green I-stained DNA using 532 nm laser 0.2 fmol of Cy3 end-labeled DNA using 532 nm laser 0.2 fmol of Cy5 end-labeled DNA using 635 nm laser	• • • • • •	• • • • • •	
Dynamic range	5 orders of magnitude	•	•	•
Linearity	r <sup>2</sup> > 0.99	•	•	•
Uniformity	±5% over entire scan area	•	•	•
Scan resolution	800, 200, 100, and 50 μm (user-selectable)	•	•	•
Scan time	20 x 25 cm area: 8.5 min at 100 μm, 15 min at 50 μm 35 x 43 cm area: 8.5 min at 200 μm, 17 min at 100 μm	• •	• •	• •
Spatial resolution of storage phosphor*	<sup>14</sup> C: 200 μm (2.5 line pairs/mm) using imaging screen-K <sup>32</sup> P: 300 μm (1.5 line pairs/mm) using imaging screen-K	• •		• •
Digital resolution	16-bit (65,536 gray scale)	•	•	•
Excitation source	25 mW 532 nm (green) diode-pumped solid-state laser 10 mW 635 nm diode laser	• •	• •	•
Optional external lasers	15 mW 488 nm (blue) external argon ion laser 10 mW 635 nm (red) external diode laser	• •	• •	
Maximum power	65 W	•	•	
Input voltage range	100–240 VAC, 50–60 Hz	•	•	•
Operating environmental requirements	10–32°C, 30–80%	•	•	•
Computer interface	USB2	•	•	•
Operating system	Windows 2000 or XP, or Mac OS X	•	•	•
Dimensions (W x D x H)	57 x 68 x 30 cm	•	•	•
Weight (scanner)	32 kg	•	•	•

\* Dependent on radioisotope characteristics and storage phosphor crystal size coated on the screen.

## Ordering Information

Catalog #	Description
<b>Molecular Imager PharosFX and PharosFX Plus Systems</b>	
170-9450	Molecular Imager PharosFX System, PC or Mac, 100/240 V, includes Quantity One software, sample tray set, fluorescence filters (170-7866, 170-7896), USB2 cable, instructions
170-9460	Molecular Imager PharosFX Plus System, PC or Mac, 110/240 V, includes Quantity One software, sample tray set, fluorescence (170-7866, 170-7896) and phosphor imaging filters, USB2 cable, instructions
<b>Personal Molecular Imager (PMI) System</b>	
170-9400	Personal Molecular Imager (PMI) System, PC or Mac, 110/240 V, includes Quantity One software, sample tray, SCSI cable, instructions
<b>Accessories</b>	
170-7890	External Laser, 488 nm, includes 170-9459 filter
170-7893	635 nm External Laser Upgrade, for 170-7890, includes 170-7865 filter
170-7892	External Lasers, 488 nm and 635 nm, includes 170-7865 filter
170-9459	Filter 530 nm BP, for ECL Plus, AttoPhos, SYBR Green I, Alexa Fluor 488, FITC, Cy2, and Pro-Q Emerald dyes
170-7863	Filter 555 nm LP, for Texas Red dye
170-7866	Filter 605 nm BP, for ethidium bromide, SYPRO Red, SYPRO Ruby, Alexa Fluor 532 and 546, and Cy3 dyes
170-7896	Filter 640 nm BP, for Texas Red dye
170-7865	Filter 695 nm BP, for Cy5 and Alexa Fluor 635 dyes
170-7867	Blank Filter Holder
170-7811	Sample Tray
170-7813	Sample Holders, for gels
170-7812	Multi-Sample Tray I, for small aluminum-mounted screens and microplates
170-7814	Microplate Adaptor, for multi-sample tray I
170-7819	Multi-Sample Tray II, for scanning gels mounted to glass plates
170-7845	Imaging Screen-K (Kodak)/Tritium, 20 x 25 cm
170-7843	Imaging Screen-K (Kodak), 20 x 25 cm
170-7841	Imaging Screen-K (Kodak), 35 x 43 cm
170-7861	Exposure Cassette-K, for 20 x 25 cm Kodak screen
170-7862	Exposure Cassette-K, for 35 x 43 cm Kodak screen
170-7809	Screen-K Eraser, 110/120 V
170-7806	Screen-K Eraser, 220/240 V
931-0071	3 m USB Cable
161-0722	Bio-Rad Cleaning Concentrate
170-7869	Replacement Bulb for Screen-K Eraser

## Related Products

169-2000	BioOdyssey Calligrapher MiniArrayer, 115 V
169-2100	BioOdyssey Calligrapher MiniArrayer, 230 V
169-2200	BioOdyssey Calligrapher MiniArrayer With Cooling Module, 115 V
169-2300	BioOdyssey Calligrapher MiniArrayer With Cooling Module, 230 V
161-0490	Flamingo Fluorescent Gel Stain, 10x solution, 20 ml
161-0491	Flamingo Fluorescent Gel Stain, 10x solution, 100 ml
161-0492	Flamingo Fluorescent Gel Stain, 10x solution, 500 ml
165-7200	EXQuest Spot Cutter
165-7201	EXQuest Spot Cutter With PC
170-9631	PDQuest Advanced 1-User Network License
170-9632	PDQuest Advanced 2-User Network License
170-9633	PDQuest Advanced 3-User Network License
170-9634	PDQuest Advanced 4-User Network License
170-9635	PDQuest Advanced 5-User Network License
170-9636	PDQuest Advanced 10-User Network License
170-9638	PDQuest Advanced Add 1 User to Network License
170-9640	PDQuest Basic to Advanced Software Version Upgrade
170-9642	PDQuest User Guide
170-9645	PDQuest Advanced CFR Module
170-9620	PDQuest Basic 2-D Analysis Software
170-9660	PDQuest Basic Software Version Upgrade, 7.x to 8.0
170-9670	PDQuest Advanced Software Version Upgrade, 7.x to 8.0
165-9770	Proteomweaver 4.0 Professional 2-D Analysis Software
165-9775	Proteomweaver 4.0 Professional 2-D Analysis Software, with multifuorescence analysis (MFA)
165-9780	Proteomweaver 4.0 Enterprise 2-D Analysis Software
165-9790	Proteomweaver 4.0 Enterprise 2-D Analysis Software, with multifuorescence analysis (MFA)
165-9791	Proteomweaver Enterprise Add 1 User to Network License
165-9798	Proteomweaver 4.0 Enterprise Pro 2-D Analysis Software
165-9799	Proteomweaver Enterprise Pro Add 1 User to Network License
165-3414	Gel Clip, holds any gel size

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The Molecular Imager PharosFX systems are covered by the following patents: US patents 4,812,660, 4,822,520, and 4,830,875 (licensed exclusively to Bio-Rad Laboratories); US patent 5,266,803 (issued to Bio-Rad); and patents pending, and are a Class I laser product.



**Bio-Rad  
Laboratories, Inc.**

Life Science  
Group

Web site [www.bio-rad.com](http://www.bio-rad.com) USA 800 4BIORAD Australia 02 9914 2800 Austria 01 877 89 01 Belgium 09 385 55 11 Brazil 55 21 3237 9400 Canada 905 712 2771 China 86 21 6426 0808 Czech Republic 420 241 430 532 Denmark 44 52 10 00 Finland 09 804 22 00 France 01 47 95 69 65 Germany 089 318 84 0 Greece 30 210 777 4396 Hong Kong 852 2789 3300 Hungary 36 1 455 8800 India 91 124 4029300/5013478 Israel 03 963 6050 Italy 39 02 216091 Japan 03 5811 6270 Korea 82 2 3473 4460 Mexico 55 5200 05 20 The Netherlands 0318 540666 New Zealand 64 9415 2280 Norway 23 38 41 30 Poland 48 22 331 99 99 Portugal 351 21 472 7700 Russia 7 095 721 14 04 Singapore 65 6415 3188 South Africa 27 0861 246 723 Spain 34 91 590 5200 Sweden 08 555 12700 Switzerland 061 717 95 55 Taiwan 886 2 2578 7189/2578 7241 United Kingdom 020 8328 2000