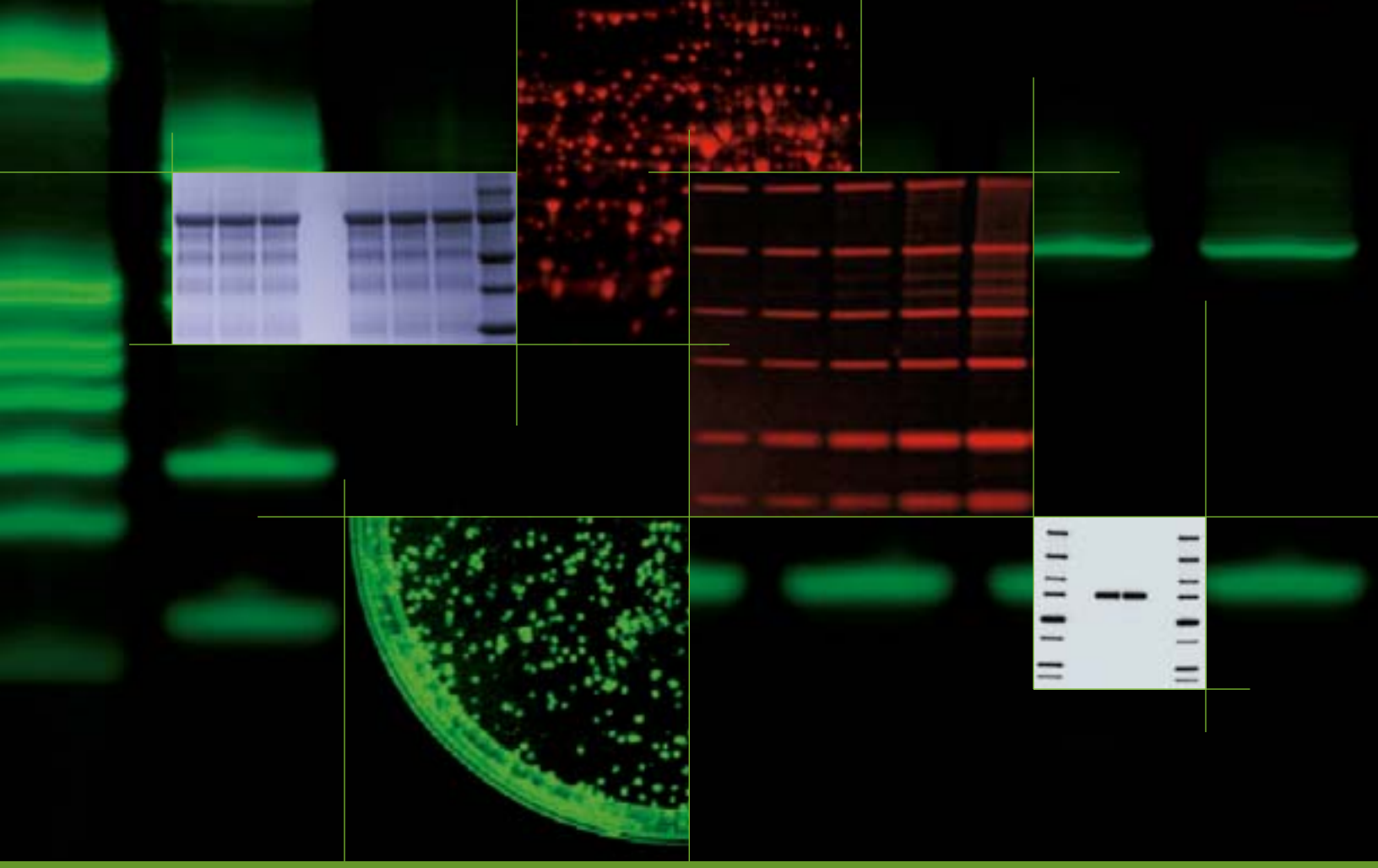
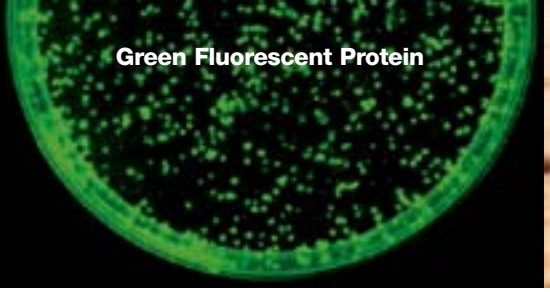
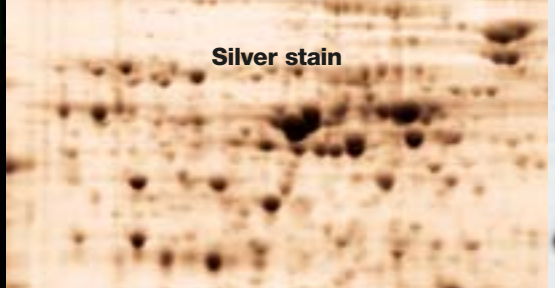


Gel Documentation Systems

The Worldwide Leader in Gel Imaging

BIO-RAD





The Unmistakable Leader in High-Resolution Systems

Bio-Rad is the worldwide leader when it comes to providing high-quality imaging products. Whether your research includes everyday imaging of PCR products, more demanding low-light applications such as chemiluminescent western blots, or both — the Gel Doc™ XR and ChemiDoc™ XRS imaging systems meet your needs.

Two Complete Gel Documentation Systems

The Gel Doc XR and ChemiDoc XRS systems ship complete with darkroom, camera, UV and white light illumination, filter slider with amber filter, UV protection shield, Quantity One® 1-D analysis software, and unlimited copies of Quantity One® Basic software for data sharing.

Extra Resolution

Gel Doc XR

The Gel Doc XR system is a high-resolution gel documentation system for all of your everyday imaging needs. The 1.4 megapixel imaging system is fast and easy to use. Follow the onscreen steps and get your results with only three clicks of a mouse. The motorized zoom lens allows a hands-free approach to finding the perfect focus, zoom, and iris settings. The intuitive and easy-to-use Quantity One interface allows you to expose and print directly from the acquisition window. The Gel Doc XR provides a detection range of 3 orders of magnitude with a 12-bit CCD and utilizes a FireWire interface for fast data transfer.

- High-resolution imaging with 1.4 million pixels
- Motorized zoom lens for hands-free gel documentation
- Real-time imaging for quick positioning and focusing of samples
- Onscreen integration — No need to save an image; simply “freeze” the image at the desired intensity and print
- FireWire interface for rapid data transfer
- White light transilluminator allows documentation of visible dyes
- Upgradable to the ChemiDoc XRS system

The Gel Doc XR provides extra resolution for the acquisition, optimization, quantitation, and documentation of all of your gel data.

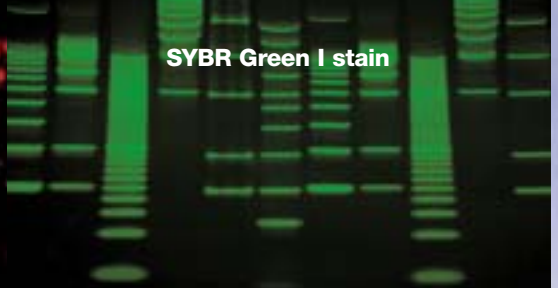
Extra Resolution & Sensitivity

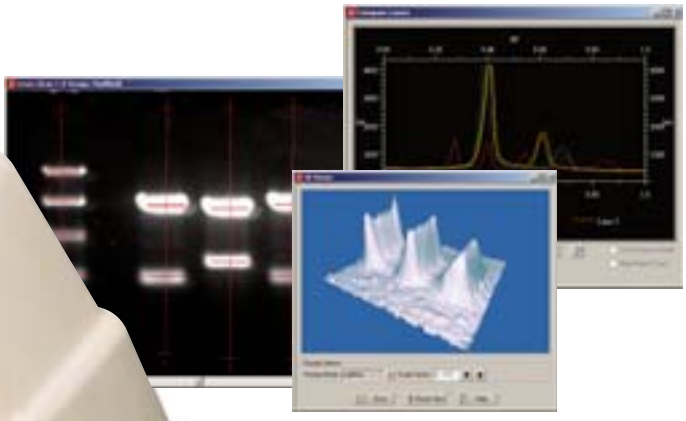
ChemiDoc XRS

The ChemiDoc XRS system is an advanced chemiluminescent detection system offering extra resolution and sensitivity. The system features flat fielding technology for superior uniformity and quantitation, and the flexibility to image chemiluminescent, fluorescent, and colorimetric samples. The system includes a supersensitive 12-bit CCD, supercooled for excellent detection of faint samples. The ChemiDoc XRS can be used for imaging in a wide variety of applications that require high resolution (such as 2-D gel electrophoresis) and excellent sensitivity (such as chemiluminescent western blots).

- Supercooled high-resolution CCD camera with 1.4 megapixel resolution
- User control of camera bin settings
- Exceptional dynamic range and sensitivity
- Real-time imaging
- Dynamic flat fielding
- Excellent collection efficiency — f/1.2 motorized zoom lens or f/0.95 wide-angle lens

The ChemiDoc XRS is optimized for high-resolution chemiluminescent and fluorescent imaging.





Quantity One 1-D Analysis Software

Quantity One software is a powerful package for imaging and analyzing 1-D electrophoretic gels and blots, dot blots, slot blots, and colonies. Quantity One software analyzes a variety of data collected from densitometers, storage phosphor imagers, fluorescent imagers, and gel documentation systems. Quantity One software automates analysis for fast, high-quality results.

User-Friendly Interface

- Built-in Quick Guides
- Large selection of predetermined settings for the most commonly used detection reagents
- Annotation tools

Analysis Tools

- Automatic band and lane detection
- Molecular weight determination
- Colony counting and volume analysis
- Automation Manager for archiving and retrieving your most commonly used analysis templates
- 3-D viewer for critical analysis of closely spaced bands

Data Output

- Data sharing with unlimited copies of Quantity One Basic
- TIFF file import, export, and publishing
- JPEG file export
- Mac and PC compatibility
- Networkability

Now With Data Security

- Tools for compliance with US FDA 21 CFR Part 11 regulations

The Discovery Series 21 CFR Part 11 Compliance Module

Specifications

	Gel Doc XR	ChemiDoc XRS
CCD resolution (H x V)	1,360 x 1,024 pixels	1,392 x 1,040 pixels
Pixel density	12-bit (4,096 gray levels)	12-bit (4,096 gray levels)
Pixel size (H x V)	4.6 x 4.6 µm	6.7 x 6.7 µm
Dynamic range	3 orders of magnitude	>3 orders of magnitude
Camera cooling system	No	Peltier-based
Camera cooling temperature	NA	–45°C
Motorized zoom lens	C-mount, f/1.2, 8.5–51 mm	C-mount, f/1.2, 12–75 mm
Illumination modes	Trans-UV, white, epi-white	Trans-UV, white, epi-white
Excitation source	254, 302, 365 nm, and white light	254, 302, 365 nm, and white light
Filter positions	Fluorescence: 2	Fluorescence: 2; chemiluminescence: 1
Emission filters	1 included (amber), 4 optional	1 included (amber), 4 optional
Transillumination area	25 x 26 cm	25 x 26 cm
Dynamic flat fielding	No	Yes, CV* ≤ 5%
Software compatibility	Windows, Mac	Windows, Mac
Dimensions (W x D x H)	60 x 36 x 96 cm	60 x 36 x 96 cm
Weight	32 kg	32 kg

* Coefficient of variance.

Ordering Information

Catalog #	Description
Gel Documentation Systems	
170-8170	Gel Doc XR System, PC
170-8171	Gel Doc XR System, Mac
170-8070	ChemiDoc XRS System, PC
170-8071	ChemiDoc XRS System, Mac
170-9600	The Discovery Series™ Quantity One 1-D Analysis Software
170-9615	The Discovery Series Quantity One CFR Module
Accessories	
170-7950	White Light Transilluminator
170-8001	White Light Conversion Screen
170-8072	f/0.95 25 mm Wide-Angle Lens, for ChemiDoc XRS system only
170-8073	f/0.95 17 mm Wide-Angle Lens, for ChemiDoc XRS system only
170-8074	Filter, 520DF30 62 mm, SYBR Green/Green Fluorescent Protein/ SYBR Gold/fluorescein
170-8075	Filter, 560DF50 62 mm, Cy3/rhodamine
170-8076	Filter, 630BP30 62 mm, SYPRO Ruby/Texas Red
170-8077	Filter, 480BP70 62 mm, Hoechst/coumarin
170-8098	254 nm UV Lamps, 6
170-6887	365 nm UV Lamps, 6
170-8097	Standard 302 nm UV Lamps, 6
170-8066	Sony UPD895 Printer
170-8067	Sony UPD895 Printer Paper
Computers	Inquire

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