FUJIFILM
I&I – Imaging & Information

Science Imaging Systems

Compact

Accurate

High-Throughput

Array Analysis

BAS-1800II

Especially suited for high-throughput macro array image analysis

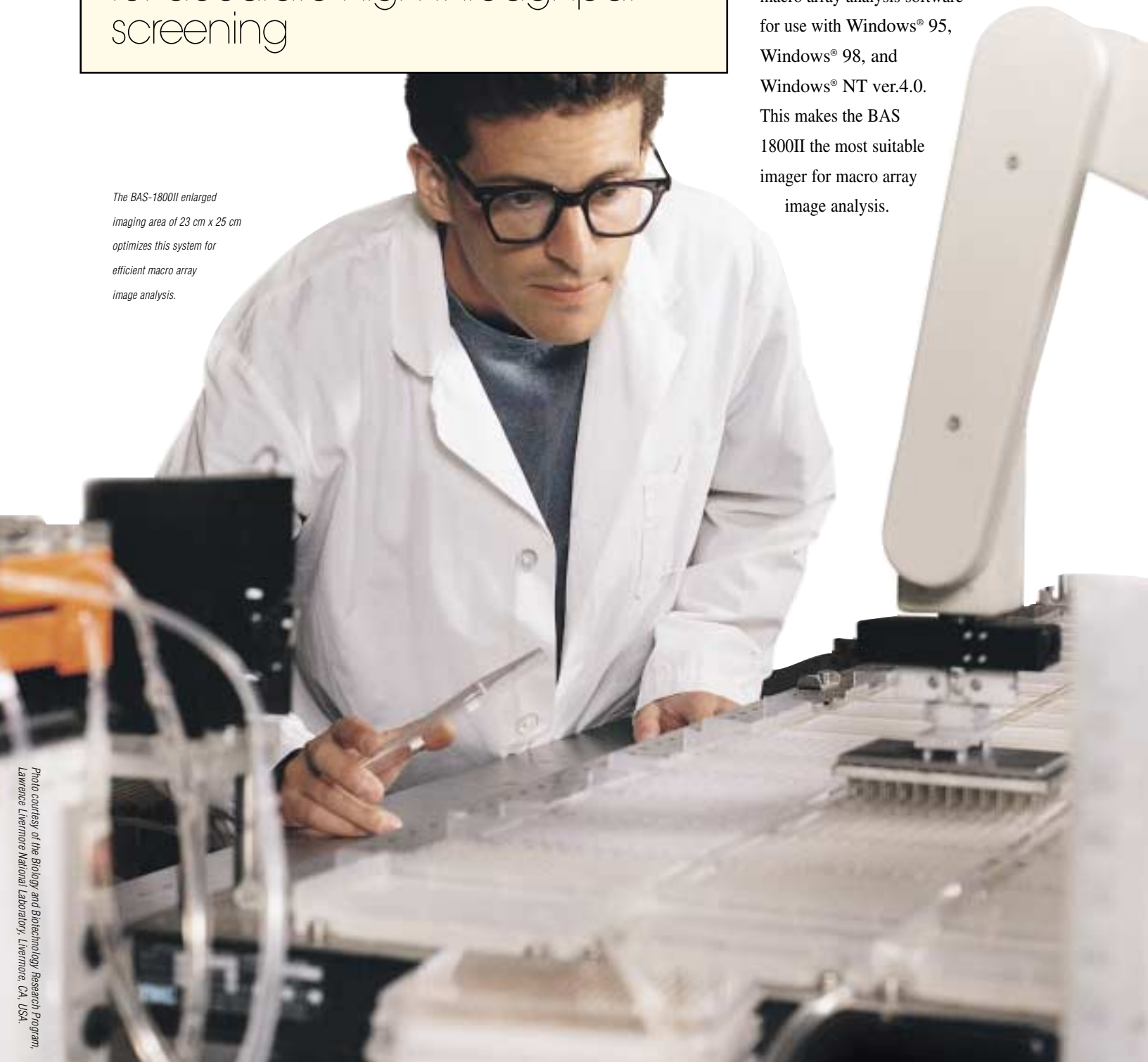
Fujifilm BAS-1800II provides the ideal configuration for a low-cost imager that requires only a small amount of space in the laboratory.

Despite its small size, this unit delivers powerful performance including the high level of quantitative accuracy, resolution and linearity of data you have learned to expect from Fujifilm Bio-imaging Analyzers (BAS).

An optimized system for macro array image analysis

The BAS 1800II features an enlarged imaging area of 23 cm x 25 cm, for use with 22 cm x 22 cm membranes, and optional macro array analysis software for use with Windows® 95, Windows® 98, and Windows® NT ver.4.0. This makes the BAS 1800II the most suitable imager for macro array image analysis.

The BAS-1800II – the small imager for accurate high-throughput screening



The BAS-1800II enlarged imaging area of 23 cm x 25 cm optimizes this system for efficient macro array image analysis.

Photo courtesy of the Biology and Biotechnology Research Program, Lawrence Livermore National Laboratory, Livermore, CA, USA.

Higher sensitivity for wet samples using BAS-MS Imaging Plate (IP)

Fujifilm BAS imagers feature the fastest phosphor imaging plate scan-times in the industry, and samples prepared with Fujifilm IPs are ready 10 – 100 times faster than samples captured with X-ray film. When the BAS-1800II is used in combination with a BAS-MS IP (MS-2325), even tough-to-image wet samples are no problem. This new IP offers very high sensitivity and tough water-resistant qualities.

There is no need to sacrifice image integrity for speed when you have a BAS-1800II. Even with reduced exposure times, the BAS-1800II will detect minute amounts of substances often undetected by traditional autoradiography. The sensitivity of Fujifilm's patented IPs provides a highly efficient, uniform and sensitive detection system far superior to that of X-ray film. All Fujifilm IPs, except BAS-TR (tritium detection) IPs, are reusable and the need for a darkroom or development and fixing chemicals is eliminated.

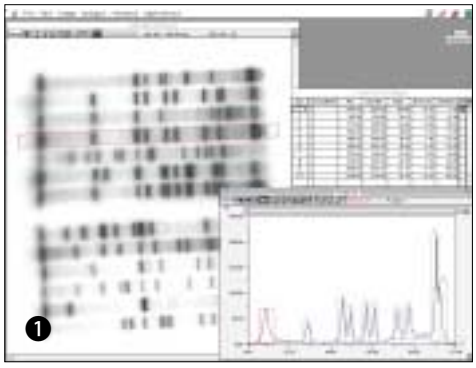
Better performance for a variety of applications

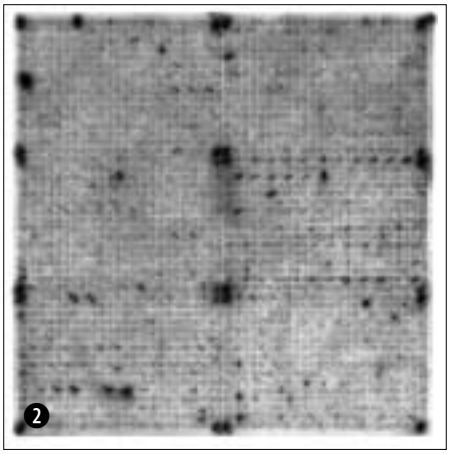
Fujifilm BAS-1800II is a versatile instrument in any laboratory. It offers high resolution and quantitative accuracy for numerous applications including:

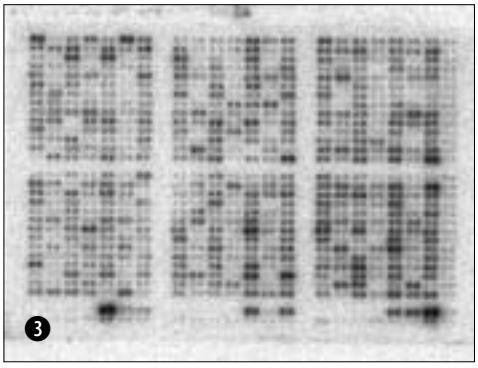
- Southern, Northern, Western Blotting
- In-Situ Hybridization
- 1D, 2D Electrophoresis
- X-ray Diffraction
- Macro Array
- NDT, NDE and others
- Compatible with MacOS /Windows® 95, Windows® 98, Windows® NT ver.4.0 (Science Lab Software)

TÜV PRODUCT SERVICE Quality system certified to ISO 9001

The BAS-1800II combines a small footprint with high-throughput efficiency.







Data Images, left to right:

1. Southern Blotting, Fujifilm file image.

2. Specimen: UT7 Membrane (22x22cm): GDA Human ver. 1.2 manufactured by Genome Systems, Inc. Courtesy of Norio Komatsy, M.D., Ph.D., Jichi Medical School, and Masao Seto, M.D., Ph.D., Chief, Aichi Cancer Center Research Institute.

3. Membrane (8x12cm): Atlas™ cDNA Mouse Expression Array manufactured by CLONTECH Laboratories, Inc. Acquired by Fujifilm.

Specifications and Applications

Specifications

Imaging	
IP Size	20 x 25 cm and 23 x 25 cm
Pixel Size	50 µm / 100 µm / 200 µm (selectable)
Reading Time	4 min. (approximate)
Detectable Nuclides	^{14}C, ^{32}P, ^{33}P, ^{35}S, ^{125}I, ^{3}H, Neutron
Dynamic Range	5 orders of magnitude
Gradation	65,536 (16 bits)/256 (8 bits) selectable
Shading	± 5% over entire scan area
Imaging Plates (see details below)	
BAS-MS2025, BAS-MS2325, BAS-SR2025, BAS-TR2025, BAS-ND2025	
Dimensions and Weight	
Dimensions	830 mm (W) x 450 mm (H) x 590 mm (D)
Weight	65 kg
Image Reading Software	
ImageReader (MacOS/Windows® 95, Windows® 98, Windows® NT ver.4.0)	
Image Analysis Software	
Science Lab (MacOS/Windows® 95, Windows® 98, Windows® NT ver.4.0)	

Imaging Plates

Size: 2025 & 2325 (20/23 cm x 25 cm)

BAS-MS	Designed for compatibility of high sensitivity and water-resistance. For use with all existing BAS.
BAS-SR	Designed with blue pigment for both optimum sharpness (especially for 50µm or smaller pixel size) and good wet-sample durability.
BAS-TR	Designed for highest resolution tritium detection, with blue pigment and no surface-protection layer. For use with dry samples.
BAS-ND	Designed for neutron detection, with blue pigment, surface-protection and Gd_2O_3 converter in the photostimulable layer. Good wet-sample resistance.

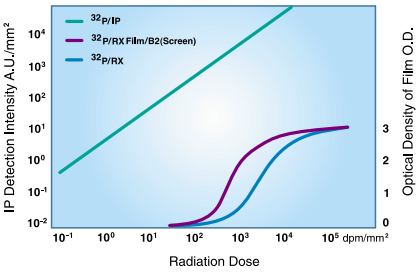
Applications

Life Science	**Genomics and Proteomics Imaging**	**Molecular Biology**	
		1D Electrophoresis	●
		2D Electrophoresis	●
		DNA & Protein Blots	●
		Macro Arrays	●
		Neuroanatomy	●
		Neurophysiology	●
		Immunology & Cell Biology	
		In-Situ Hybridization	●
		Receptor Binding Assays	●
		Pharmacokinetics & Toxicology	
		Whole Body Autoradiography	●
		Thin Layer Chromatography	●
Physical and Material Sciences	**Structural Analysis**	**X-Ray Crystallography**	●
		Semiconductor Wafer Check	●
		Non-Destructive Testing	●
Environmental Monitoring	**Autoradiography**		●
	Dosimetry		●

● Recommended ● Available

Imaging Plates vs. X-ray Film

The sensitivity of Fujifilm's patented IP provides a highly efficient, uniform and sensitive detection system far superior to that of X-ray film. All Fujifilm IPs, except BAS-TR (tritium detection) IPs, are reusable and there is no need for a darkroom or development and fixing chemicals. There are Fujifilm IPs for virtually any type of emitter, all with superior accuracy.



A comparison of Fujifilm Imaging Plate versus X-ray film.

Additionally, Fujifilm IP images can be repeatedly scanned before erasing the IP for your next experiment.

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