

Specifications and Applications

Image Capturing Unit (Camera Head and Controller)

CCD chip	Fujifilm Super CCD Area Type chip
Number of Pixels	3.2 M pixels
Pixel Size	10.75 x 10.75µm
Cooling	Two-stage thermoelectric module with air circulation
Cooling Temperature	-30°C (when room is below 28°C)
Focusing	Power focusing; remote and preset control
Exposure time	1/100 second to 30 hrs (2 hrs to 30 hrs to be set manually)
Dynamic range	4 orders of magnitude
Gradation	16 bits (65,536)
Image size:	12.6MB Max.; 49.2KB Min.
Maximum sample size	25 x 25cm (wide angle lens); 14 x 21cm (Fujinon VRF43LMD lens)
Binning	1x2, 2x4, 4x8, and 8x16 pixels
Interface	USB1.1

Software

Image capture	Fujifilm Image Reader (Mac™ and Windows®)
Image analysis	Fujifilm Image Gauge (Mac™); Fujifilm MultiGauge (Windows®)

Dimensions and Weights

Camera head	180 (W) x 170 (H) x 250mm (D)	3.4kg
Dark Box IV	510 (W) x 730 (H) x 480mm (D)	49.0kg

Analyzing Unit

Operating system	Windows® XP or Mac™ OS 9 & X (Mac™ OS X to follow)
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Applicable Reagents and/or Samples

Chemiluminescence	CDP-Star®, ECL™, ECLplus™, SuperSignal, ImmunoStar, CSPD®
Fluorescence	EtBr (W/UV light), SYBR® Green I & II, SYPRO® Orange, GFP
Chemifluorescence	*AttoPhos™
Documentation	CBB stained gel (Trans-illuminator) NBT/BCIP stained membrane (Epi-illuminator)

Intelligent Dark Box IV

EPI-illuminator for fluorescence	Blue LED (470nm)
EPI-illuminator for documentation	White-light source
Transilluminator – for documentation of stained gels and autoradiographic films	White LED
UV Transilluminator**	UV-light source(312nm)
Filter turret	Five positions

Printers

Picrography 3500
LBP or Inkjet printer

Lens

High sensitivity lens (FUJINON VRF43LMD)		Wide Angle lens	
F-value:	0.85	F-value:	2.0
Focal length:	43mm	Focal length:	24mm
Focus:	Remote power focusing	Focus:	Manual
Mount:	Bayonet	Mount:	Adapter to Nikon F

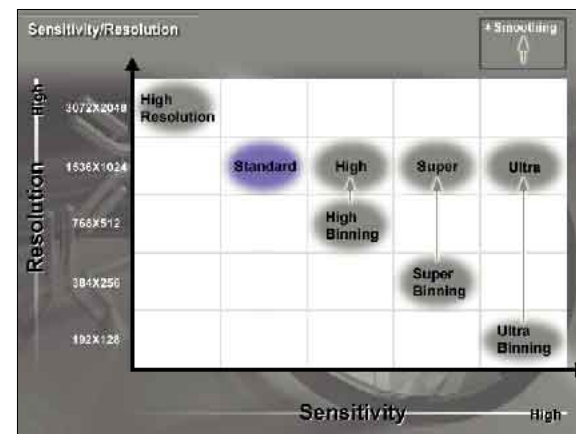
*No license is granted for use of AttoPhos™ to detect nucleic acid on a nylon membrane.

**No license is granted for pre-labeling method with the UV transilluminator.

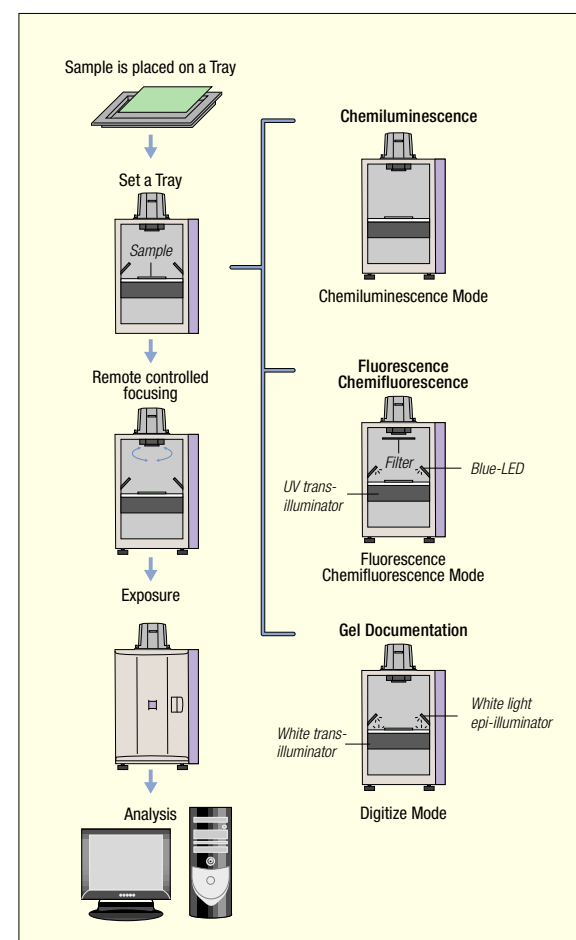


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Specifications and system configuration subject to change for improvement without notice. All other product names mentioned herein are the trademarks of their respective owners.



The binning mode of the LAS-3000 allows researchers to select from four binning settings to enhance both imaging sensitivity and image resolution.



The simplified image analysis process captures images in three modes: chemiluminescence, fluorescence/chemifluorescence and gel documentation.



Ref. No. BB-204E (02/09)



Science Imaging Systems

Super CCD

Remote Controlled



Science Imaging

System

LAS-3000

CHEMILUMINESCENCE • FLUORESCENCE/CHEMIFLUORESCENCE • GEL DOCUMENTATION

