

Appendix E: Technical Specifications

Model	Gel Doc 2000	ChemiDoc	ChemiDoc XRS
Application			
Chemiluminescence	No	Yes	Yes
Fluorescence	Yes	Yes	Yes
Chemifluorescence	No	No	No
Colorimetric/Densitometry	Yes	Yes	Yes
Gel Documentation	Yes	Yes	Yes
Isotopic Imaging	No	No	No
Hardware Specifications			
Maximum Sample Size	28 x 36 cm	28 x 36 cm	28 x 36 cm
Maximum Image Area	25 x 26 cm	25 x 26 cm	25 x 26 cm
Excitation Source	Trans UV 302, 254, 365 nm & White, Epi-White light	Trans UV 302, 254, 365 nm & White, Epi-White light	Trans UV 302, 254, 365 nm & White, Epi-White light
Illumination Modes	3 Trans UV & White, Epi-White	3 Trans UV & White, Epi-White	3 Trans UV & White, Epi-White
Detector	CCD	Super Cooled CCD	Super Cooled CCD
CCD Resolution (H x V)	768 x 494 RS-170 752 x 582 CCIR	768 (H) x 494 (V) (RS170) 752 x 585 (CCIR)	1300 x 1030
Pixel Size (in Microns)	8.4 (H) X 9.8 (V)	8.4 (H) X 9.8 (V)	6.7 (H) X 6.7 (V)
Cooling System	No	2 stage Peltier	Peltier cooled
Camera Cooling Temp.	NA	-40°C	-45°C
Filter Holder	2 positions 1-Emission Filter 1-Chemi	2 positions 1- Emission Filter 1-Chemi	2 positions 1- Emission Filter 1-Chemi
Emission Filters	1 Included (amber), 4 optional	1 Included (amber), 4 optional	1 Included (amber), 4 optional
Dynamic Range	1.8 Orders	1.8 Orders	3.0 Orders
Pixel Density (gray levels)	8 bit (256 gray levels)	8 bit (256 gray levels)	12 bit (4096 gray levels)
Dynamic Flat Fielding	No	No	Yes
Instrument Size (cm)	45(L) x 61(W) x 96(H)	45(L) x 61(W) x 96(H)	45(L) x 61(W) x 96(H)
Instrument Weight (kg)	32 kg	32 kg	32 kg
Software Specifications			
Application Driven	Yes	Yes	Yes
Windows 98/XP	Yes	Yes	Yes
Windows NT/2000	Yes	Yes	Yes
Mac OS 9.X	Yes	Yes	Yes
Image File Size (MB)	Approx. 360 Kb	Approx. 360 Kb	Approx. 2.5 MB