

Appendix E: Technical Specifications

Model	Gel Doc™ XR	ChemiDoc™ XRS
Application		
Chemiluminescence	No	Yes
Fluorescence	Yes	Yes
Chemifluorescence	No	No
Colorimetric/Densitometry	Yes	Yes
Gel Documentation	Yes	Yes
Isotopic Imaging	No	No
Hardware Specifications		
Maximum Sample Size	28 x 36 cm	28 x 36 cm
Maximum Image Area	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
Illumination modes	3 Trans UV & White, Epi-White	3 Trans UV & White, Epi-White
Detector	CCD	Super Cooled CCD
CCD Resolution (H x V)	1360(H) x 1024 (V)	1300 (H) x 1030 (V)
Pixel Size (in Microns)	4.65(H) X 4.65 (V)	6.7 (H) X 6.7 (V)
Cooling System	No	Peltier cooled
Camera Cooling Temp.	NA	-45°C
Filter Holder	3 positions 2-Emission Filter 1-Chemi	3 positions 2-Emission Filter 1-Chemi
Emission Filters	1 Included (amber), 4 optional	1 Included (amber), 4 optional
Dynamic Range	3.0 Orders	> 3.0 Orders
Pixel Density (gray levels)	12 bit (4096 gray levels)	12 bit (4096 gray levels)
Dynamic Flat Fielding	No	Yes
Instrument Size (cm)	36(L) x 60(W) x 96(H)	36(L) x 61(W) x 96(H)
Instrument Weight (kg)	32 kg	32 kg
Software Specifications		
Application Driven	Yes	Yes
Windows XP	Yes	Yes
Windows 2000	Yes	Yes
Mac OS 10	Yes	Yes
Image File Size (MB)	Approx. 2.5 MB	Approx. 2.5 MB
Operating Ranges		
Operating Voltage	100/115/230 VAC Nominal	100/115/230 VAC Nominal
Operating Temperature	10-28°C (21°C recommended)	10-28°C (21°C recommended)
Operating Humidity	< 70% non- condensing	< 70% non- condensing