Specifications for ChemiDoc MP System

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Applications	
Chemiluminescence	Yes
Fluorescence	Yes
Colorimetry/densitometry	Yes
Gel documentation	Yes
Hardware Specifications	
Maximum sample size	28 x 36 cm
Maximum imaging area	26 x 35 cm
Excitation source	Trans-UV (302 nm included; 254 nm and 365 nm available as options) and epi-white; optional trans-white conversion screen, XcitaBlue conversion screen, and epi-red, -green, and -blue LED modules
Illumination control	8 modes available. Trans-UV, epi-white, and no illumination for chemiluminescence are standard; epi-red, epi-green, epi-blue, trans-white, and XcitaBlue conversion screens are optional
Detector	Supercooled CCD
Image resolution	4 megapixels
Pixel size (H x V)	6.45 x 6.45 µm
Cooling system	Peltier
Camera cooling temperature	–30°C absolute and regulated
Filter holder	6 positions (5 for filters, 1 without filter for chemiluminescence)
Emission filters	1 included (standard), 4 optional
Dynamic range	>4.0 orders of magnitude
Pixel density (gray levels)	65,535
Dynamic flat fielding	Application specific; for all applications
Instrument size (L x W x H)	36 x 60 x 96 cm
Instrument weight	32 kg
Operating Ranges	
Operating voltage	110/115/230 VAC nominal
Operating temperature	10–28°C (21°C recommended)
Operating humidity, noncondensing	<70%
Automation Capabilities	
Workflow automated selection	Application driven; user selected or recalled by a protocol
Workflow automated execution	Controlled by a protocol via application-specific setup for image area, illumination source, filter, analysis, and reporting
Workflow reproducibility	100% repeatability via recallable protocols; from image capture to quantitative analysis and reports
Autofocus (patent pending)	Precalibrated focus for any zoom setting or sample height
Image flat fielding**	Dynamic; precalibrated and optimized for every application
Autoexposure	2 user-defined modes (intense or faint bands)

**U. S. patent 5,951,838