Gel Doc XR+ Technical Specifications

Applications	
Chemiluminescence	No
Fluorescence*	Yes
Colorimetry	Yes
Gel documentation	Yes
Hardware Specifications	
Maximum sample size	■ Length: 28 cm ■ Width: 36 cm
Maximum image area	■ Length: 19.4 cm ■ Width: 26 cm
Excitation source	■ Trans-UV and epi-white are standard (302 nm included, with 365 nm available as an option). ■ Optional trans white, self-powered or conversion screen. ■ Optional XcitaBlue™ UV/blue conversion screen.
Illumination control	3 modes: ■ Trans-UV ■ Trans white ■ Epi-white
Detector	CCD
Pixel size	4.65 x 4.65 (H x V in microns)
Cooling system	Not applicable
Camera cooling temperature	Not available
Filter holder	3 positions: ■ 2 for emission filters ■ 1 for using no filter
Emission filters	■ 1 included (standard) ■ 3 optional

Dynamic range	>3.0 orders of magnitude
Pixel density (gray levels)	4,096
Dynamic flat fielding	Application-specific, for all applications
Instrument size	■ Length: 36 cm ■ Width: 60 cm ■ Height: 96 cm
Instrument weight	32 kg
Operating Ranges	
Operating voltage	110/115/230 V AC nominal
Operating temperature	10–28°C (21°C recommended)
Operating humidity	<70% noncondensing
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	Precalibrated focus for any zoom setting
Image flat fielding	Dynamic; precalibrated and optimized per application
Autoexposure	2 user-defined modes (intense or faint bands)

* When acquiring images from SYBR® Safe DNA applications, Bio-Rad highly recommends that you use the optional XcitaBlue Conversion Screen kit (catalog #1708182), which enables you to visualize DNA samples and protects them against UV damage.