

ChemiDoc XRS+ Technical Specifications

| Applications | |
|----------------------------|---|
| Chemiluminescence | Yes |
| Fluorescence* | Yes |
| Colorimetry | Yes |
| Gel documentation | Yes |
| Hardware Specifications | |
| Maximum sample size | <ul style="list-style-type: none"> ■ Length: 28 cm ■ Width: 36 cm |
| Maximum image area | <ul style="list-style-type: none"> ■ Length: 26 cm ■ Width: 35 cm |
| Excitation source | <ul style="list-style-type: none"> ■ 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 | <p>5 modes:</p> <ul style="list-style-type: none"> ■ Trans-UV (standard) ■ Epi-white (standard) ■ No illumination for chemiluminescence (standard) ■ Trans white (optional) ■ XcitaBlue (optional) |
| Detector | Supercooled CCD |
| Pixel size | 6.45 x 6.45 (H x V in microns) |
| Cooling system | Peltier cooled |
| Camera cooling temperature | -30°C controlled |
| Filter selector | <p>3 positions:</p> <ul style="list-style-type: none"> ■ 2 for filters ■ 1 without filter (for chemiluminescence) |

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| Emission filters | <ul style="list-style-type: none"> ■ 1 included (standard) ■ 3 optional |
| Dynamic range | >4.0 orders of magnitude |
| Pixel density (gray levels) | 65,535 |
| Dynamic flat fielding | Application-specific, for all applications |
| Instrument size | <ul style="list-style-type: none"> ■ 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 or sample height |
| 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.