

Technical Specifications

Supported Applications	
Fluorescence	ChemiDoc MP only
Chemiluminescence	Yes
Colorimetry	Yes
Gel documentation	Yes
Hardware Specifications	
Touch screen functionality	<ul style="list-style-type: none"> ■ Multitouch capable ■ Display resolution 1024 x 768 pixels ■ 12.1" (30.73 cm) display
Onboard computer system	<ul style="list-style-type: none"> ■ 4 GB RAM ■ 120 GB disk space ■ 4 USB ports
Sample thickness	Maximum supported thickness: 5 mm
Maximum image area	<ul style="list-style-type: none"> ■ Length: 16.8 cm ■ Width: 21 cm
Excitation source	<ul style="list-style-type: none"> ■ Trans-UV 302 nm (standard) ■ Epi-white (standard) ■ Trans-white (optional) ■ Trans-blue (optional) LEDs for multiplex fluorescence detection (optional, MP only) <ul style="list-style-type: none"> ■ Blue ■ Green ■ Red ■ Far Red ■ Infra Red
Detector	Deeply cooled CCD

Pixel size	4.54 x 4.54 μm
Cooling system	Thermoelectric
Filter wheel	Automated
Emission filters	535–645 nm (standard) Additional emission filters for MP only <ul style="list-style-type: none"> ■ Chemi ■ 532/28 ■ 595/36 ■ 715/30 ■ 835/50
Dynamic range	>4.0 orders of magnitude
Pixel density (gray levels)	65,535
Instrument size	<ul style="list-style-type: none"> ■ Depth: 62.6 cm (25") ■ Width: 50 cm (20") ■ Height: 54.3 cm (21")
Instrument weight	32 kg (78 lb)
Operating Ranges	
Operating voltage	100–240 VAC, 50–60 Hz
Operating temperature	10–28°C
Operating humidity	10–80% relative humidity (noncondensing)
Automation Capabilities	
Workflow automated selection	Application driven, tray-based imaging Application-driven autoselection of emission filter and excitation source
Autofocus	Precalibrated focus for any zoom setting
Image flat fielding	Dynamic; precalibrated and optimized per application
Autoexposure	2 user-defined modes (rapid or optimal)

Environmental Requirements

The imager requires a space 52 x 56 x 62 cm (W x H x D) and a clearance of at least 8 cm from the back for instrument ventilation and for connecting or disconnecting the AC power cord. Place the imager on a sturdy and level laboratory bench or table away from excessive heat and moisture. The imager's operating temperature range is 10–28°C. The imager contains a universal power supply that supports a voltage range of 100–240 VAC.



WARNING! Transilluminators are powerful sources of UV radiation, which can cause serious damage to unprotected eyes and skin. The accessory UV shield provides UV protection. However, this shield does not guarantee complete protection nor does it provide protection to others in the area around the imager. Before performing band excision, the user and anyone near the imager must put on protective gear including eyeglasses (laboratory glasses provide adequate protection), a face shield, lab coat, and gloves.