Chemiluminescence Gel Imaging System, 9 MP Camera Cooled to -65°C, QE 95%, F0.95 Autofocus Lens

Model **MSGEP-GD600SWISS,MSGEP-GD600MFSWISS** | Brand **Master Science**





The Master Science Chemiluminescence Gel Imaging System combines a scientific-grade camera cooled to -65°C with a wide-aperture autofocus lens for sensitive chemiluminescence and gel imaging. The 9 MP sensor reaches 95% quantum efficiency, exposures run from 1 ms to 60 minutes, and images are recorded at 16-bit depth.

KEY HIGHLIGHTS

- Captures weak signals
- No guesswork on exposure
- One-click results
- Fluorescence option

AT A GLANCE

-65°C
COOLING TEMPERATURE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

Lens and light sources are fully automatic, exposure time is calculated automatically, and one button captures the image and overlays the marker with the chemiluminescence signal. Two versions are offered: GD600 for standard imaging and GD600MF with multi-colour fluorescence, extra UV wavelengths and a 5-position filter wheel.

> For routine DNA gel documentation, see our Touch Screen Gel Imaging System as a companion to the Chemiluminescence Gel Imaging System.

Key Benefits

Captures weak signals
-65°C cooled sensor with 95% QE.

No guesswork on exposure
Automatic exposure calculation.

One-click results
Single button shooting with automatic marker overlay.

Fluorescence option
GD600MF adds multi-colour fluorescence imaging.

Technical Specifications

GENERAL

General	Specifications of the Chemiluminescence Gel Imaging System (GD600 / GD600MF):
Brand	Master Science
Model Number	MSGEP-GD600SWISS,MSGEP-GD600MFSWISS
SKU	MSGEP-GD600SWISS,MSGEP-GD600MFSWISS
Camera Resolution	9.0 MP
Multi-Colour Fluorescence	GD600: no; GD600MF: yes
Cooling Temperature	-65°C
Quantum Efficiency	95%
Binning	1x1, 2x2, 4x4 to 8x8
Exposure Time	1 ms to 60 min
Lens	F0.95 autofocus (F0.8 optional)
UV Transmission	GD600: 302 nm; GD600MF: 302 + 365 nm; 21 x 21 cm
White Light	Two-layer LED reflection top and bottom; LED white light sample board
UV Reflection	GD600: optional; GD600MF: 254 nm, optional 302/365 nm
Filter Wheel	GD600: 2-position; GD600MF: 5-position
Filters	GD600: 590 nm; GD600MF: 535, 590, 605, 699 nm (720, 820 nm optional)
Imaging Area	20 x 20 cm
Timed Shutdown	1-60 min
Optical Density	≥ 4.8 OD

DIMENSIONS & WEIGHT

Pixel Size	3.76 x 3.76 µm
Image Depth	16-bit (0-65535)
Dimensions	380 x 405 x 695 mm
Net / Gross Weight	35.8 / 38.5 kg (GD600); 37 / 40 kg (GD600MF)
Package Dimensions	500 x 525 x 825 mm

IMAGING PROBLEMS IT ADDRESSES

Weak blot signals	Cooled, high-QE sensor and long exposures up to 60 min.
Trial-and-error exposure	Automatic exposure calculation.
Aligning markers with signal	Automatic marker overlay.
Darkroom film processing	Digital capture with 16-bit images.

Applications

The Chemiluminescence Gel Imaging System is used for
Western blot chemiluminescence detection DNA and RNA gel documentation Protein gel imaging Multi-colour fluorescence imaging (GD600MF)

Camera and Optics

- Scientific-grade cooled camera, -65°C
- 9 MP sensor, 3.76 µm pixels
- Wide-aperture F0.95 autofocus lens
- Binning up to 8x8

Automation

- Fully automatic lens and light source control
- Automatic exposure calculation
- One-button capture with marker and chemiluminescence image stacking

Illumination and Filters

- UV transmission 302 nm (plus 365 nm on GD600MF)
- Top and bottom LED white reflection
- LED white light sample board
- Filter wheel with 2 or 5 positions

Optional Accessories

- F0.8 autofocus lens
- UV reflection 302/365 nm
- Additional filters (720, 820 nm and others)