Multifunctional Fluorescence Gel Imaging System, 12 MP Cooled Camera, RGB Light, 28 x 21 cm Area

Model **MSGEP-GD900MFSWISS** | Brand **Master Science**





The Master Science Multifunctional Fluorescence Gel Imaging System brings chemiluminescence, multi-colour fluorescence, UV and white light imaging into one light-tight cabinet. A scientific-grade camera cooled to -65°C provides 12 MP resolution with quantum efficiency above 95%, paired with an F0.95 autofocus lens.

KEY HIGHLIGHTS

- Many imaging modes in one
- High sensitivity
- Fast multicolour results
- Gel cutting made easy

AT A GLANCE

-65°C
COOLING TEMPERATURE

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

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Overview

RGB LED illumination at 470, 520 and 650 nm, UV transmission at 302 and 365 nm and a 5-position filter wheel cover a wide range of dyes. Automatic exposure, one-click capture with marker overlay, automatic false colour and three-colour merging simplify analysis over a 28 x 21 cm imaging area.

For a 9 MP model, see our Chemiluminescence Gel Imaging System, 9 MP, a sibling of the Multifunctional Fluorescence Gel Imaging System.

Common Laboratory Problems and How the Multifunctional Fluorescence Gel Imaging System Helps

Key Benefits

Many imaging modes in one
Chemiluminescence, RGB fluorescence, UV and white light.

High sensitivity
12 MP sensor cooled to -65°C with QE above 95%.

Fast multicolour results
Automatic false colour and three-colour merging.

Gel cutting made easy
One-click gel cutting view without opening the software.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSGEP-GD900MFSWISS
SKU	MSGEP-GD900MFSWISS
Camera Resolution	12 MP
Quantum Efficiency	> 95%
Binning	1x1, 2x2, 3x3, 4x4 to 8x8
Exposure Time	1 ms to 60 min
Cooling Temperature	-65°C
Lens	F0.95 autofocus (F0.8 optional)
RGB Illumination	LED 470, 520, 650 nm (others optional)
UV Transmission	302 + 365 nm, 21 x 21 cm
White Light	Two-layer LED reflection top and bottom; LED white light sample board
UV Reflection	254 nm (302, 365 nm optional)
Filter Wheel	5-position
Filters	535, 590, 605, 699 nm (720, 820 nm optional)
Imaging Area	28 x 21 cm
Timed Shutdown	1-60 min
Optical Density	≥ 4.8 OD

DIMENSIONS & WEIGHT	
Pixel Size	4.63 x 4.63 µm
Image Depth	16-bit (0-65535)
Dimensions	380 x 405 x 695 mm
Net / Gross Weight	37 / 40 kg
Shipping Dimensions	500 x 525 x 825 mm

Applications

The Multifunctional Fluorescence Gel Imaging System is used for: Western blot chemiluminescence Multi-colour fluorescent western blots DNA and protein gel documentation Gel cutting and band recovery Fluorescent sample imaging

Camera and Optics

- Scientific-grade camera cooled to -65°C
- 12 MP, 4.63 µm pixels
- F0.95 autofocus lens, compatible with samples of different thickness

Illumination

- RGB LEDs at 470, 520, 650 nm
- UV transmission 302 + 365 nm
- UV reflection 254 nm
- Top and bottom LED white reflection and white light sample board
- 5-position filter wheel

Software and Design

- Fully automatic control with no manual hardware settings
- Automatic exposure and image management
- One-click capture with automatic marker overlay
- False colour and three-colour merging
- One-piece seamless housing to prevent light leakage

Optional Accessories

- F0.8 autofocus lens
- UV reflection 302/365 nm
- Additional RGB wavelengths and filters
- Temperature control platform
- Anaesthesia system

Imaging challenges it addresses:

- Separate instruments for each imaging mode: One system covers chemiluminescence, fluorescence, UV and white light.
- Light leaks spoil faint signals: Seamless one-piece housing.
- Manual focusing for thick samples: Autofocus lens adapts to sample thickness.
- Time-consuming image merging: Automatic false colour and merging.