MS major science

2023-2024 Catalogue

Imaging Systems

Innovative Life Sciences Tools
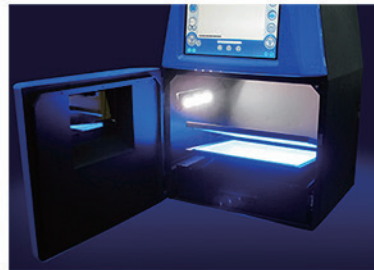
SmartView Pro Imager

UVCI-2300

MS UVCI-2300, the truly standalone Gel Imaging System, delivers incredible image and sharpness with the power of an exceptionall close-up monochrome 2.0 mega-pixel CCD camera, and get you ready for beautifully discriminable DNA/Protein gel images in the spaciously intuitive 10.4″ interface with color touch-screen. Our innovative systems are expandable with white and blue light plates coupled with the versatility of camera filters, no matter it's an EtBr or EtBr-free operations, simply tab to view. Many post-imaging features like drawer-type platform and UV protection shield are added to your convenience for gel excision.

UVCI-2300

2.0 MP CCD Camera

Control Interface

System setup

Default setting

Features

- Standalone gel doc system with high-quality monochrome CCD
- Exchangeable emission Filters provide for instant visualization
- Intuitive 10.4″ interface with color touch-screen
- Zoom-able lens for proper picture size
- Movable platform for gel excision with UV-protection shield
- Automatic UV shut off mechanism
- Optional trans white light and blue light plates

UV light protection warning

Batch file management

Blue light plate

White light plate

White Light Plate (Flip type)

Blue Light Plate (Flip type)

UV Transilluminator (Drawer type)

UVCI-2300

Imaging System

Specifications

Model	SmartView Pro 2300
Cat. No.	UVCI-2300
Camera	1/1.8" interline UXGA monochrome progressive 2.0MP CCD
Pixels Size	4.4µmx4.4µm
Lens (Camera)	F1.2, 12.5 – 75mm (with one +1 close-up lens), 6X zoom lens, manual
Camera Video Output	12bit
Filter (Camera) *Ordered Separately	Optical EtBr Filter / Optical SYBR Green Filter / Orange Amber Filter
Image Storage	Built-in 14GB Memory (3000 tiff images storage) and USB flash
Cabinet	Pull out, sliding transilluminator
Field Of View (WxL)	Maximum filed od view 10.2"x8.3" (260x210mm)
Dimension (WxLxH)	Approx. 16.1"x16.7"x35.8" (410x425x910mm)
Weight	Approx. 62.8lbs. (28.5kg)
Display	10.4″ color touch screen, 800x600
Viewing Window	Built-in UV viewing window
Window Filter	Amber Filter embedded in viewing window (580nm)
Light Source	Built-in drawer type UV Transilluminator 312(302)nm
	build-in LED white light
Optional Accessory	White Light Plate (power built-in)
	Blue light plate (power built-in) 470nm
Saved Image	Max. 16bit
Grayscale	12bit, 0-4095 gray levels
Safety	CE
Rated Voltage	100-240V~, 50/60Hz

*MS 1D Analysis Software (MBE-IMG-SW) is included in for image analysis only.

Ordering Information

Cat. No.	Product Description
UVCI-2300	SmartView Pro 2300 Imager System, UV light version

*Filters are necessary part for Gel Documentation System.
*All filters have to be ordered separately and discuss with local dealer before order.

Accessories

Cat. No.	Product Description
UVCI-2300-EB	SmartView EtBr Filter, 610nm (for UV)
UVCI-2300-SG	SmartView SYBR Green Filter, 520nm (for UV)
UVCI-2300-F4	SmartView Amber Filter, 580nm (for blue light)
UVCI-2313	SmartView Pro UV Protection Shield
UVCI-2314	SmartView Pro Lens Filter Stand, can hold up to 4 lens filters
UVCI-2300-BL	Blue Light Plate
UVCI-2300-WL	White Light Plate 210x260mm
MJC-8-STYLUS-00000	Stylus Pen
CI-CL55+1	55mm Close up lens +1 for CCD Image System

UVCI-2300-EB

UVCI-2300-SG

UVCI-2300-F4

UVCI-2313

UVCI-2314

UVCI-2300-BL

UVCI-2300-WL

MJC-8-STYLUS-00000

CI-CL55+1

Viewing via window

Viewing via screen

Viewing window
(Amber filter, 580nm)

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* Technical specifications subject to change without notice.

Imaging System

SmartView Pro Imager,CMOS

FC C€

UVCI-1100 series

The SmartView Pro 1100 provides the basic feature and standard operation. All important features such as safety UV door, UV safety-cut-off switch function, 1D analysis software and are included as standard. 1D analysis software can be used for DNA/RNA gels and SDS page images observation and capture. Moreover, it can be used as an image analysis software for DNA/RNA gels and dot blotting. Blue light module, white light plate and optical and amber filters are available for a variety of applications. Enjoy the most compact CMOS imaging system for all of your laboratory work.
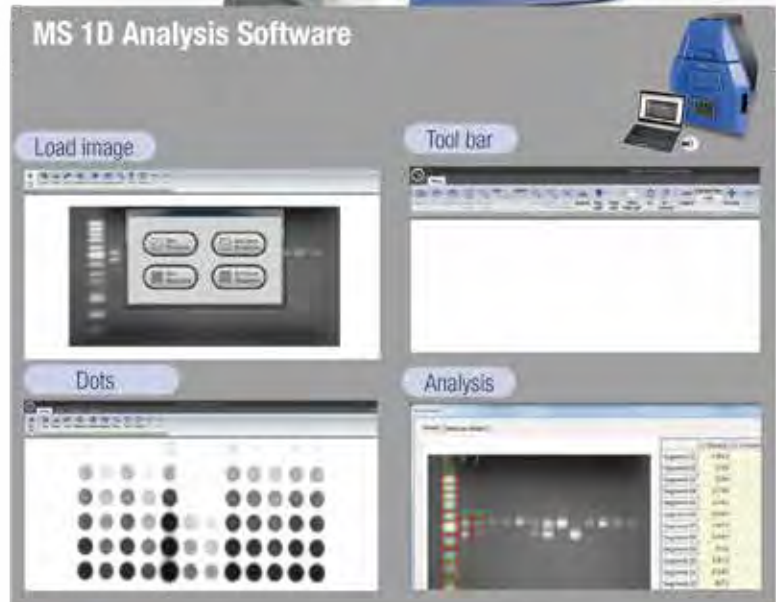
PC is not included

UVCI-1100

5.0 MP Monochrome Camera

White Light Plate for protein analysis

MS 1D Analysis Software

Load image

Tool bar

Dots

Analysis

Easily gel cutting design with UV

Viewing window
(Amber filter, 580nm)

Features
- High resolution 5.0 megapixel monochrome camera (UVCI-1100)
- PC integration with real time image
- Capture/Analysis software included
- Pull out UV Transilluminator for easy gel cutting
- Easy installation, ready to use right out of the box
- One touch image capture
- Variety of optional accessories available
- UV safety cut-off switch when door is open
- CE and FCC certification

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Imaging System

Specifications

Model	SmartView Pro 1100
Cat. No.	UVCI-1100
UV Light	Built-in drawer type UV Transilluminator 312(302)nm
Camera	1/2.5" 5M Pixel Monochrome sensor
Pixels Size	2.2µmx2.2µm
Lens (Camera)	6mm, F1.2
Camera Video Output	12-bit
Filter (Camera) *Ordered separately	Optical EtBr Filter / Optical SYBR Green Filter / Yellow Amber Filter / Orange Amber Filter
Image Storage	PC
Software Support	Window 10 / 8 / 7 (64bit & 32bit) / XP / Vista
Cabinet	Pull out, sliding transilluminator
Field Of View (WxL)	Approx. 10.2"x8.3" (260x210mm)
Dimension (WxLxH)	Approx. 16.1"x15.9"x22.4" (410x405x570mm)
Weight	Approx. 54lbs. (24.5kg)
Display	LED indicator light
Viewing Window	Built-in UV viewing window
Window Filter	Built-in Viewing Window Amber Filter 560nm
Light	White light (standard)
Optional Accessory	White Light Plate (power built-in)
	Blue light (power built-in) 470nm
Safety	CE, FCC
PC Connection	USB port
1 D Analysis Software	Cat. No. MBE-IMG-SW included
Saved Image	BMP/JPEG/PNG/TIFF, 8 bit; PNG/TIFF, 16 bit
Rated Voltage	100-240V~, 50/60Hz, 2A

* iPad and PC is not included.
* MS 1D Analysis Software (MBE-IMG-SW) is included in UVCI-1100 for image capture and analysis .
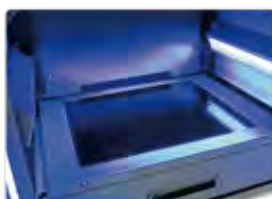
Ordering Information

Cat. No.	Product Description
UVCI-1100	SmartView Pro 1100 Imager System, standard version
UVCI-1101	SmartView Pro 1100 Imager System, standard version, high UV performance

*Filters are necessary part for Gel Documentation System.
*All filters have to be ordered separately and discuss with local dealer before order.

Accessories

Cat. No.	Product Description
UVCI-1000-WL	White Light Plate for SmartView Pro Imager System
UVCI-1000-BL	Blue Light Module for SmartView Pro Imager System
UVCI-1100-EB	SmartView EtBr Filter, 610nm (for UV)
UVCI-1100-SG	SmartView SYBR Green Filter, 520nm (for UV)
UVCI-1100-F3	SmartView Amber Filter 560nm
UVCI-1100-F4	SmartView Amber Filter 580nm
UVCI-1000-F1	Viewing window Amber filter, 560nm for SmartView Pro Imager System
UVCI-1003	SmartView Pro UV Protection Shield
UVCI-1004	SmartView Pro Lens Filter Stand, can hold up to 4 lens filters
MBE-G-Y1	Amber Filter Viewing Glasses, 560 nm (optional)

UVCI-1000-WL

UVCI-1000-BL

UVCI-1100-EB

UVCI-1100-SG

UVCI-1100-F3

UVCI-1100-F4

UVCI-1003

MBE-G-Y1

Epi-blue light for optional light source

Optional blue light device

Sliding transilluminator

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Imaging System

SmartView
Simple Imager System

MUV-IMG-CA

Major Science offers the SmartView Simple Imager System for your UV or blue light Transilluminator. This unit is designed extremely light in weight and compact in size.

For any lab with limited budget and lab space, the SmartView Simple Imager System is definitely the choice of selection. It is compatible with most transilluminators on the market. (for any maximum viewing size less than 260x210mm)

The digital camera model gives an impressive resolution of 24.1 megapixels, and provides you a PC-free operation environment with high mobility.

Wi-Fi function

PC is not included

DI-EB49   DI-SG49   DI-AM49

MUV-IMG-CA

Features
- Extremely light weight and compact in size
- Effective Pixels Approx. 24.1 megapixels (Total Pixels Approx. 25.8 megapixels)
- Can be operated PC free
- Optical filters available upon ordering (EtBr, SYBR, and 580nm Amber filter)

MUV-IMG-CA   MUV-IMG-CA-01

MUV-IMG-CM + MUV series

MUV-IMG-CM + MUVB series

Specifications

Camera spec.	
Camera Type	24.1MP digital camera, Wi-Fi function
Effective Pixels	Approx. 24.2 megapixels (Total Pixels Approx. 25.8 megapixels)
Sensor	22.3 x 14.9mm CMOS sensor
Max. Aperture	f/3.5-6.3 (IS STM Lens)
Shutter Speed	1/4000 - 30sec. (available range varies by shooting mode)
Storage Media	SD memory card, Wi-Fi to PC, Smartphone or Tablet
Computer Interface	Hi Speed USB (Micro), HDMI(Micro), WiFi connection
Video Out	Full HD / HD / MP4 / 4K
Image Resolution	(3:2)6000x4000
Lens	35mm film equivalent focal length, approx. 1.6 times the lens focal length
File Format	Designed rule for Camera File system 2.0
Data Type	JPEG, RAW(CR3 14 bit)
	RAW+JPEG simultaneous recording possible
Filter (For Camera, Optional)	"EtBr filter / SYBR Green filter / Amber Filter *ordered separately"
Darkroom	
Dimension (WxLxH)	Approx. 9.3"x12.5"x16.5" (236x317x420mm)
Material	Acrylonitrile Butadiene Styrene (ABS)
Weight	Approx. 3.1lbs. (1.4Kg)
Camera Adapter Material	Aluminum

* iPad and PC not included.

Accessories

Cat. No.	Product Description
Filter (for camera) *ordered separately	
DI-EB49	EtBr filter, 49mm
DI-SG49	SYBR Green filter, 49mm
DI-AM49	Amber filter, 49mm

Ordering Information

Cat. No.	Description
MUV-IMG-CA	SmartView Simple 310 Imager system, with 24.1 MP digital camera
MUV-IMG-CA-01	SmartView 310 holder kit, includes hood and camera adapter only

*Filters are necessary part for Gel Documentation System.
*All filters have to be ordered separately and discuss with local dealer before order.

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DI series

For DI series

The Digimage System is a simple, compact gel documentation system with a rear digital control panel. It contains a digital camera with a superb resolution of 24.1 megapixels. The image is viewed from a large 8″ TFT colorful screen with monitor purpose only, for a lab with limited space and low budget requirements, the Digimage System is definitely your top choice since it can be operated without computer. A variety of images can be captured including: agarose and other fluorescent gels, colorimetric gels, auto radiography film, and blotting membranes. A safety switch is equipped to turn off the UV Transilluminator automatically when the front door is opened. Files can be saved in a variety of formats, including RAW format, for transfer to a computer for storage and analysis.
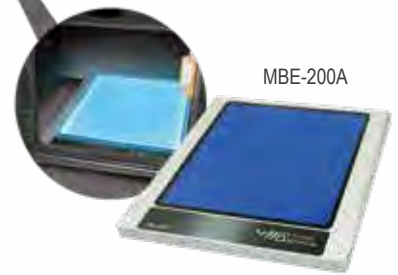
DI-01

Features

- Effective Pixels Approx. 24.1 megapixels (Total Pixels Approx. 25.8 megapixels)
- High resolution 8″ TFT screen
- Digital control panel
- Compact chamber and lightweight
- Can be operated PC free
- Inner white light LED at two sides
- Safety door switch
- Optional gel analysis software package available
- Universal rated voltage: 100-240V~

MBE-200A

DI-HD

DI-01 is offered as a complete system for the user to perform image capture, including:

1 x Digimage System hood
1 x Digital camera
1 x DC coupler
1 x 8″ color TFT screen
1 x Memory card
1 x Memory card reader

Wi-Fi function

PC is not included

High resolution 8″ TFT screen

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* Technical specifications subject to change without notice.

Imaging System

Specifications

Camera Spec.	
Camera Type	24.1MP digital camera, Wi-Fi function
Effective Pixels	Approx. 24.1megapixels (Total Pixels Approx. 25.8 megapixels)
Sensor	22.3 x 14.9mm CMOS sensor
Max. Aperture	f/3.5-6.3 (IS STM Lens)
Shutter Speed	30 - 1/4000 sec (1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)
Storage Media	SD memory card, Wi-Fi to PC, Smartphone or Tablet
Computer Interface	Hi Speed USB (Micro), HDMI(Micro), WiFi connection
Video Out	Full HD / HD / MP4 / 4K
Image Resolution	(3:2)6000x4000
Lens	35mm film equivalent to 1.6x the focal length
File Format	Designed rule for Camera File system 2.0
Data Type	JPEG, RAW(CR3 14 bit)
	RAW+JPEG simultaneous recording possible
Filter (For Camera, Optional)	"EtBr filter / SYBR Green filter / Amber Filter *ordered separately"
Monitor	
Type	8" TFT LCD Monitor
Resolution	1024x600 pixels
Brightness	300cd / m^2
Constant Ratio	700:1
Display Mode	NTSC / PAL auto switch

DI-01 Spec.	
Multi-Power Source	For camera, Inner light lamp, TFT monitor
Inner White Light	2 white LED, 3 watt/LED
Safety Device	Safety door switch
Dimension (WxLxH)	11.4"x13.3"x15.9" (290x339x403mm)
Material	Painted metal
Rated Voltage	110/220V~, 50/60Hz, 1.6A
Weight	Approx. 12.9lb (5.8kg)
Camera Adapter	Aluminum
DI Darkroom	
Dimension (WxLxH)	11.4"x13.3"x15.7" (290x339x398mm)
Weight	Approx. 11.9lb (5.4kg)

DI-01 + MUV series

Ordering Information

Cat. No.	Description
DI-01	Digimage System with 24.1 megapixels digital camera
DI-HD	Digimage System without digital camera

DI-01 + MUVB series

Accessories

Cat. No.	Description
DI-DR-E12	DC coupler
DI-WLA3-110/220	White Light Table 297x400mm (110/220V)
DI-WLA4-110/220	White Light Table 210x297mm (110/220V)
DI-WLA6-110/220	White Light Table 105x150mm (110/220V)
Filter (for camera) *ordered separately	
DI-EB49	EtBr filter, 49mm
DI-SG49	SYBR Green filter, 49mm
DI-AM49	Amber filter, 49mm

*Filters are necessary part for Gel Documentation System.
*All filters have to be ordered separately and discuss with local dealer before order.

DI-DR-E12   DI-WLA3 (297x400mm)
DI-WLA4 (210x297mm)
DI-WLA6 (105x150mm)

DI-EB49   DI-SG49   DI-AM49

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Imaging System

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