

Innovative Life Science Instruments

## Gel Documentation Systems

major science Gel Documentation Systems comprise several modes of UV transilluminator, Compact Digimage, Digimage System, and two sized modes of Gel Dryers for various applications.

Convenience, user friendly, long life time, compact size, economic choice are the features of major science Gel Documentation Systems.

**NEW**



UVDI series

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DI-01

### Digimage Systems

- UVDI Compact UV transilluminator & Digimage System
- DI-01 Digimage System

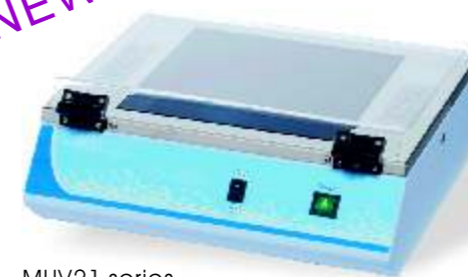
### UV Transilluminators

- MUV26-254 254nm UV and 26 x 21 cm view dimension
- MUV26-312 312nm UV and 26 x 21 cm view dimension
- MUV26-365 365nm UV and 26 x 21 cm view dimension
- MUV26-254/365 254/365nm UV and 26 x 21 cm view dimension
- MUV21-254 254nm UV and 21 x 21 cm view dimension
- MUV21-312 312nm UV and 21 x 21 cm view dimension
- MUV21-365 365nm UV and 21 x 21 cm view dimension
- MUV21-254/365 254/365nm UV and 21 x 21 cm view dimension

### Midi Gel Dryer

- MG-2131 21 x 31 cm Gel Dryer
- MG-3545 35 x 45 cm Gel Dryer

**RENEWED**

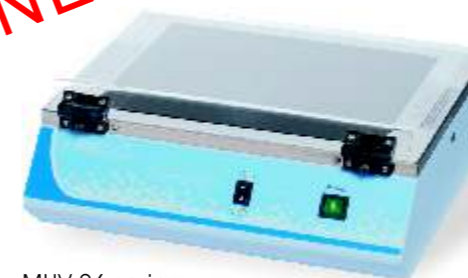


MUV21 series



MG-2131

**NEW**



MUV 26 series



MG-3545

## Compact Image System

### Product Description

Compact Digimage System uses a digital camera with 8.0 mega pixel resolution. It is computer free for compact space requirements and small budget. One integrated chamber with a build-in UV transilluminator and viewing images from the large 8" TFT color liquid crystal display are its specific features. Another feature of the Compact Digimage System is the new design of convenient accesses on two sides of the chamber making it easy and safe to recover the agarose gel for further experiments. The system is suitable to capture image for fluorescent gels, colorimetric gels, auto radiography film, and blotting membrane and others. In addition, several analysis software packages are can be used after capturing images from Compact Digimage system.

### Features

- Great observation from front view window and TFT screen
- Convenient accesses on two sides for gel operation
- User Friendly
- Compact configuration and size
- Complete package
- 8 Megapixels digital camera
- Autofocus
- Multi focus area selection
- 8" TFT liquid crystal screen
- High resolution screen
- Safety door switch
- Multi power source
- Video and Audio ports



CE  
Cat. No. :UVDI-CB Series

CE  
Cat. No. :UVDI series

## Compact Image System

### Specification

#### UV Transilluminator:

- Wavelength: 254 / 312 / 365nm
- Filter Size: 21 x 21cm
- Light Source: 8W x 6 tubes
- Long life filter
- High efficiency reflector
- Hi / Lo intensity switch
- Fast Lighting Up: new and high quality starter to let the tubes lighting up at once when switch on and no blink

#### Chamber:

- Multi-power Source: For camera, inner light lamp, TFT screen
- Inner White Lamp: 2 tubes
- Safety Door Switch: automatically shut down UV transilluminator while opening operation door
- Chamber Dimension: 290 x 220 x 320mm (W x D x H)
- Chamber Construction Material: Painted metal
- Rated Voltages: 110V or 220V
- Unit Weight: 20.0 kg

#### 8" TFT Screen:

- 8" TFT liquid crystal screen
- Resolution: 800 x 600 Pixels
- Brightness: 400cd/m<sup>2</sup>
- Contrast Ratio: 300:1
- Display mode: NTSC/PAL/SECAM mode auto switching
- Video and audio input

#### Camera:

- Type of Camera: 1/2 x Optical/4 x Digital
- Effective Pixels: Approx. 8.0 Megapixels
- CCD: 1/2.5" high-density CCD; total pixels 8.31 million
- Maximum Aperture: f/2.7 (W) - f/3.5 (T)
- Shutter Speed: 1/5-1/3200 sec. (settable in TV and M)
- Storage Media: memory card
- Computer Interface: USB 2.0 Hi-Speed (mini-B jack)
- Video Out: NTSC/PAL



### Ordering Information

UVDI-254-110/220	MS Compact Digimage System, Including: 8.0 Megapixels digital camera, lens adaptor, camera adaptor, 8" TFT colorful screen, chamber, 254nm UV transilluminator, 1GB memory card, memory card reader, 1 close up lens, and either a EtBR filter or a SYBR Green filter
UVDI-312-110/220	MS Compact Digimage System, Including: 8.0 Megapixels digital camera, lens adaptor, camera adaptor, 8" TFT colorful screen, chamber, 312nm UV transilluminator, 1GB memory card, memory card reader, 1 close up lens, and either a EtBR filter or a SYBR Green filter
UVDI-365-110/220	MS Compact Digimage System, Including: 8.0 Megapixels digital camera, lens adaptor, camera adaptor, 8" TFT colorful screen, chamber, 365nm UV transilluminator, 1GB memory card, memory card reader, 1 close up lens, and either a EtBR filter or a SYBR Green filter
UVDI-254 & 365-110/220	MS Compact Digimage System, Including: 8.0 Megapixels digital camera, lens adaptor, camera adaptor, 8" TFT colorful screen, chamber, 254 & 365nm UV transilluminator, 1GB memory card, memory card reader, 1 close up lens, and either a EtBR filter or a SYBR Green filter

UVDI-CB series does not consist of 8.0 mega pixel digital camera, 1GB memory card, memory card reader

UVDI-CB-254-110/220	Including camera adaptor, lens adaptor, 8" TFT colorful screen, chamber, 1 close up lens, 254nm UV transilluminator and either a EtBR filter or a SYBR Green filter
UVDI-CB-312-110/220	Including camera adaptor, lens adaptor, 8" TFT colorful screen, chamber, 1 close up lens, 312nm UV transilluminator and either a EtBR filter or a SYBR Green filter
UVDI-CB-365-110/220	Including camera adaptor, lens adaptor, 8" TFT colorful screen, chamber, 1 close up lens, 365nm UV transilluminator and either a EtBR filter or a SYBR Green filter
UVDI-CB-254 & 365-110/220	Including camera adaptor, lens adaptor, 8" TFT colorful screen, chamber, 1 close up lens, 254 & 365nm UV transilluminator and either a EtBR filter or a SYBR Green filter
DI-CLEB	Close up lens and EtBr filter
DI-CL	Close up lens
DI-EB	EtBR filter
DI-SG	SYBR Green filter
DI-LA	Lens adaptor

## Digimage System

### Product Description

Digimage System uses a digital camera with 8.0 mega pixel resolution. It is computer free for compact space requirements and small budget. Viewing images from the large 8" TFT color liquid crystal display is it's specific feature. It is suitable to capture image for fluorescent gels, colorimetric gels, auto radiography film, and blotting membrane and others.



Cat. No. :DI-HD



Cat. No. :DI-01

### Features

- User Friendly
- Compact configuration and size
- 8 Megapixels digital camera
- Autofocus
- Multi focus area selection
- 8" TFT liquid crystal screen
- High resolution screen
- Safety door switch
- Multi power source
- Video and Audio ports

### Hood:

- Multi-power Source: for camera, inner light lamp, TFT screen
- Inner White Lamp: 2 tubes
- Safety Door Switch: shut down UV transilluminator while opening operation door
- Hood dimension: 290 x 220 x 320mm (W x D x H)
- Rated Voltages: 110V or 220V
- Weight: 4.0 kg

### 8" TFT Screen:

- 8" TFT liquid crystal screen
- Resolution: 800 x 600 Pixels
- Brightness: 400cd/m<sup>2</sup>
- Contrast Ratio: 300:1
- Display mode: NTSC/PAL/SECAM mode auto switching
- Video and audio input

### Camera:

- Type of Camera: 1/2 x Optical/4 x Digital)
- Effective Pixels: Approx. 8.0 Megapixels
- CCD: 1/2.5" high-density CCD; total pixels 8.31 million
- Maximum Aperture: f/2.7 (W) - f/3.5 (T)
- Shutter Speed: 1/5 - 1/3200 sec. (settable in Tv and M)
- Storage Media: SD memory card
- Computer Interface: USB 2.0 Hi-Speed (mini-B jack)
- Video Out: NTSC/PAL

### Ordering Information

DI-01-110/220	Digimage System, Including: 8.0 Megapixels digital camera, camera adaptor, lens adaptor, 8" TFT colorful screen, hood, 1GB memory card, memory card reader, 1 close up lens, and either a EtBR filter or a SYBR Green filter
DI-HD-110/220	Including camera adaptor, lens adaptor, 8" TFT colorful screen, hood, and 1 close up lens, and either a EtBR filter or a SYBR Green filter
DI-CLEB	Close up lens and EtBr filter
DI-CL	Close up lens
DI-EB	EtBR filter
DI-SG	SYBR Green filter
DI-LA	Lens adaptor



## UV Transilluminators

### Product Description

The bench-top UV transilluminators offer the researcher uniform and intense sources of ultraviolet light (radiation) in a compact package. Their special design emits either one or two intensity excitation UV wavelengths for back-illumination of transparent fluorescent materials. 254nm, 312nm, 365nm and 254 & 365nm modes are available. Now there are two different filter-sized modes available, 26 x 21 cm and 21 x 21 cm for different user requirements.

Key feature for the bench-top UV transilluminators is they can be easily view gels under long wave for extended periods of time avoiding photo nicking damage. Short wave is used to irradiate samples. In between, medium wave is suggested for general gel operating. All Bench-top Transilluminator models are compact, lightweight and economical units.

### Features

- Wavelength available: 254nm or 312nm or 365nm or 254/365nm
- View Dimension: 26 x 21 cm or 21 x 21 cm
- Long life time filter

**NEW**



Cat. No. :MUV 26 series

### Ordering Information

MUV26-254	26 x 21 cm Transilluminator for 254nm
MUV26-312	26 x 21 cm Transilluminator for 312nm
MUV26-365	26 x 21 cm Transilluminator for 365nm
MUV26-254/365	26 x 21 cm Transilluminator for 254 and 365nm

MUV-T254	8 W 254nm UV lamp
MUV-T312	8 W 312nm UV lamp
MUV-T365	8 W 365nm UV lamp
MUV-F26	26 x 21 cm filter
MUV-C	UV protected cover

### Specification

- Wavelength: 254 / 312 / 365nm
- Filter Size: MUV26 series: 26 x 21 cm  
MUV21 series: 21 x 21 cm
- Light Source: 8W x 6 tubes
- Long life filter
- High efficiency reflector
- Hi / Lo intensity switch
- Fast Lighting Up: new and high quality starter to let the tubes lighting up at once when switch on and no blink
- UV Resistant Plastic Cover: 330 x 250 mm (W x D)
- Unit Dimension: 340 x 295 x 100 mm (W x D x H)
- Rated Voltages: 110V or 220V
- Weight: 7.5kg



**RENEWED**



Cat. No. :MUV21 series

### Ordering Information

MUV21-254	21 x 21 cm Transilluminator for 254nm
MUV21-312	21 x 21 cm Transilluminator for 312nm
MUV21-365	21 x 21 cm Transilluminator for 365nm
MUV21-254/365	21 x 21 cm Transilluminator for 254 and 365nm

MUV-T254	8 W 254nm UV lamp
MUV-T312	8 W 312nm UV lamp
MUV-T365	8 W 365nm UV lamp
MUV-F21	21 x 21 cm filter
MUV-C	UV protected cover

## Midi Gel Dryer

### Product Description

Midi Gel Dryer contains optimal sealing of silicon rubber with mask. The microprocessor control temperature (from ambient +5°C to 90°C with timer from 0 to 999 mins), the gels are heated from base plate and the vacuum remove the moisture from below to dry the gel homogeneously. When applying the vacuum a groove that frames the drying surface provides optimal tight seal during the drying. The drying area for MG-2131 is 21 x 31 cm and MG-3545 is 35 x 45cm.

### Features

- Drying Area: 210 x 310mm (L x W)  
350 x 450mm (L x W)
- Microprocessor for temperature control
- Timer with alarm
- 2 digital LED display

### Specification

- Display: Two of 4 digital LED
- Controller: Digital Microprocessor Controller
- Temperature Increment: 0.1 °C
- Temperature Calculation: Yes
- Temperature Uniformity: ± 0.2 °C
- Timer: 0~999 mins
- Operating Temperature: Ambient to 90 °C
- Drying Area Dimension:
  - MG-2131 --- 210 x 310mm (W x L)
  - MG-3545 --- 350 x 450mm (W x L)
- Weight: 9.0 kg for MG-2131  
15.0 kg for MG-3545



Cat. No. :MG-2131



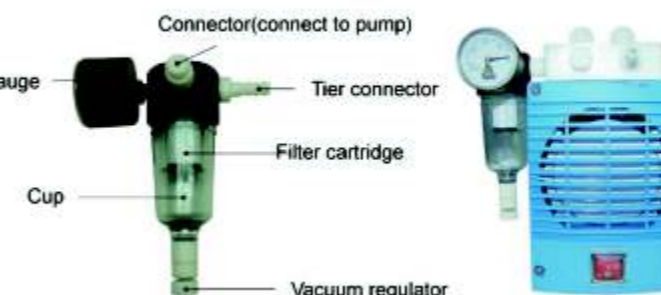
Cat. No. :MG-3545



Model	MU-VC300		MU-VC400		MU-VC410	
Voltage/Frequency	110-120V/60Hz	220-240V/50Hz	110-120V/60Hz	220-240V/50Hz	110-120V/60Hz	220-240V/50Hz
Max. Power(W)	70	60	90	95	90	95
Max. Current(A)	0.8	0.32	1.3	0.6	1.3	0.6
Max. Flow Rate	25 l/min	22 l/min	38 l/min	34 l/min	28l/min	25 l/min
Max. Vacuum	600mmHg=79kPa		600mmHg=79kPa		740mmHg=97kPa	
Max. Pressure	25PSI		30PSI		40PSI	
Motor Rotation	1700RPM	1450RPM	1700RPM	1450RPM	1700RPM	1450RPM
Capacitor	4uf/250V	2uf/450V	8uf/250V	4uf/400V	8uf/250V	4uf/400V
Horse Power	1/8HP		1/6HP		1/6HP	
Pole	4P		4P		4P	
Net Weight	5.0kg		7kg		7kg	
Gross Weight	5.2kg		7.4kg		7.4kg	
Dim (L*W*H)	210*112*220(mm)		280*112*210(mm)		270*144*190(mm)	
Port Thread	5/16"		5/16"		5/16"	
Noise Level	50dB		50dB		50dB	

Vacuum regulator / moisture trap is an optional part that is used to adjust vacuum and absorb moisture and particle.

The complete accessories are illustrated at right. Please refer to the operation manual for installation. The filter cartridge is consumable and needs to be replaced when saturated.



### Ordering Information

- MG-2131-110/220 Midi 21 x 31 cm Gel Dryer
- MG-3545-110/220 Midi 35 x 45cm Gel Dryer

- MG-2131-MAT Polythylene Filter Mat 21 x 31cm
- MG-3545-MAT Polythylene Filter Mat 35 x 45cm
- MG-2131-SR Silicon Rubber 27 x 37cm
- MG-3545-SR Silicon Rubber 41 x 53cm

- MU-VC300-110/220 MS 300 chemically resistance vacuum pump, 110V/220 AC
- MU-VC400-110/220 MS 400 chemically resistance vacuum pump, 110V/220 AC
- MU-VC410-110/220 MS 410 chemically resistance vacuum pump, 110V/220 AC

- MU-VC-VR MS Vacuum regulator / moisture trap
- MU-VC-FC MS Filter cartridge