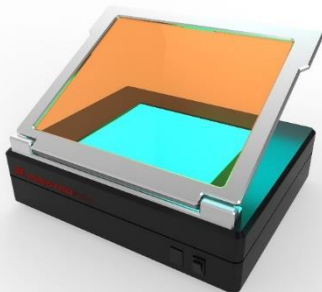




Website: www.genebiosystems.com
E-Mail: info@genebiosystems.com



2023 GeneBio Systems Instruments Catalog





Micro-Volume Spectrophotometer

GeneBio Systems is a team of specialists dedicated to providing high-performance, and cost-effective products. We strive to serve the scientific community by offering laboratory products for both clinical and academic research. Supporting some of the most research-intensive institutions in Canada, we are committed to fulfilling laboratory needs in all aspects of Molecular and Cellular Biology. Established in 2011 in Toronto Ontario, GeneBio Systems is a small yet rapidly growing company in the biotechnology industry. Over the past 10 years, we've served researchers and scientists all over Canada, and are continuing to expand into the United States of America.

MICRO-VOLUME SPECTROPHOTOMETER

MaestroNano is a specialized instrument for bio-chemical research , especially for micro-volume solution concentration measurement.

MaestroNano has a whole new technology of optical system design. There is NO optical fiber needed. Moreover, with the vertical slide design, the sample measuring area is more durable and stable.

MaestroNano has a reliable measurement range of concentration from 2 to 2000 (ng/μL) and has a great resistance for the interferences of ambient light to get more accurate measurement.

Specification

Measurement Sample Size	2 ul
Measurement Data Output	(A)OD230nm, OD260nm, OD280nm, OD320nm (B)Sample concentration (ng/ul) (C)OD260nm/OD230nm, OD260nm/OD280nm
Minimum Concentration	2 ng/ul (dsDNA), 1.6 ng/ul (RNA)
Maximum Concentration	2,000 ng/ul (dsDNA), 1,600 ng/ul (RNA)
Light Propagation Material	Quartz glass
Absorbance Range (10mm)	0.04 ~ 40
Pathlength	~0.5 mm
Measurement Time	< 5 sec
Operation System	Android OS (ver. 4.4.3)
LCD Resolution	7 inches, 1024(W)x 600(H) dots matrix
Light Source	Xenon flash lamp
Internal Storage	32GB
Data Output Interface	Thermal printer
Data Connection interface	1. Wi-Fi x 1 (USB dongle) 2. OTG USB x 1 (connected to PC to access) 3. Ethernet x 1 (RJ-45) 4. USB x 1
Maintenance	Auto diagnosis, Calibration Program, Fix pathlength
Operating Voltage	12 V
Dimensions	20(W) X 21(D) X 33(H) cm
Weight	3.5 Kg



MICRO-VOLUME SPECTROPHOTOMETER

- **Focus on nucleic acid and protein**

230nm/260nm/280nm/320nm

- **Convenient**

2 μ l sample only, measurement in less than 5 seconds

- **Accurate**

High reproducibility and repeatability

- **User-friendly interface**

Touch screen, USB, Wi-Fi, ethernet and QR code

- **All-in-one**

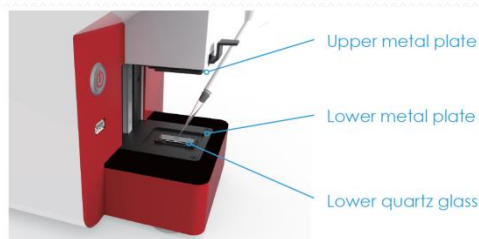
Embedded computer and thermo printer

- **Low-cost operation**

No plates or other consumables

- **Best concentration range**

2 ng/ μ L~2,000 ng/ μ L (dsDNA) without dilution



- **Reliable, repeatable, and reproducible concentration**

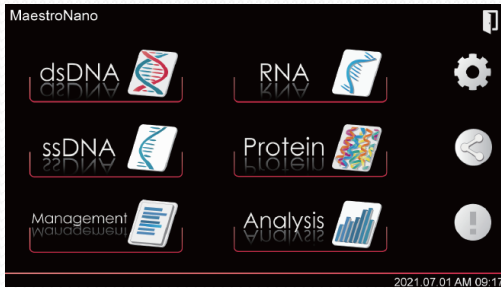
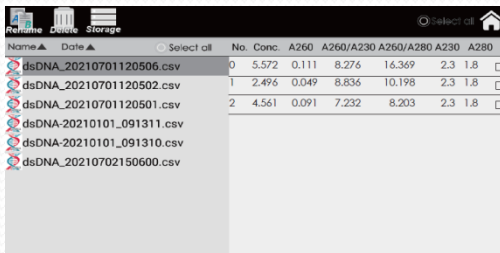
MaestroNano Pro does not intend to change light path-length during measurement to reduce frequency of calibration. Instead, MaestroNano Pro develops and offers an in-house mathematical algorithm to help users acquire more reliable, repeatable, and reproducible bio-chemical solution concentrations.

- **Non-optical-fiber design**

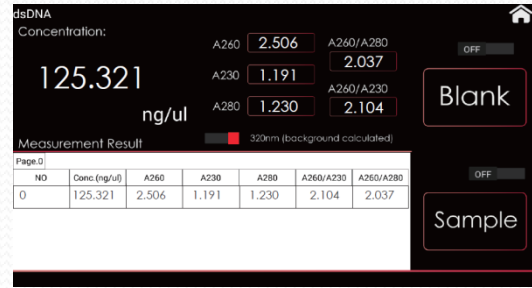
With MaestroGen's new technology, non-optical-design, MaestroNano Pro can offer the high reliability in accuracy and prevent from the unavoidable issue caused by the attenuation of light intensity in the optical path when the device equipped with fiber-optic components as consumables.

- **High precision in the positioning of optical path**

The height of optical path-length is precisely fixed in 0.5mm by fixed pin. Compared to other micro volume spectrophotometers, which need to be constantly calibrated to maintain the precision and to make the optical path length into position, MaestroNano Pro works with a metal cover that can "straightly" go up and down in y-axis via a reliable slider and that way contributes to the rigid positioning of the optical path length in y-axis and always to be perpendicular to the bottom quartz glass.

Name	Date	No.	Conc.	A260	A260/A230	A260/A280	A230	A280
dsDNA_20210701120506.csv		0	5.572	0.111	8.276	16.369	2.3	1.8
dsDNA_20210701120502.csv		1	2.496	0.049	8.836	10.198	2.3	1.8
dsDNA_20210701120501.csv		2	4.561	0.091	7.232	8.203	2.3	1.8
dsDNA-20210101_091311.csv								
dsDNA-20210101_091310.csv								
dsDNA_20210702150600.csv								



- **Accessible measurement results**

The measurement results can be accessible via the embedded touch panel, thermal printer, USB storage as well as Wi-Fi transfer.

- **Adjustable light intensity contributes to the stable performance**

In order to prevent from the impacts caused by the derivations in various environmental conditions, such as different ranges of temperature, humidity, latitude, etc., and to make sure the measurement for the same sample should be leaded to the same results, the adjustable light source provides with the adjustable voltage in intensity. With this new technology, user just needs two micro-liter of ddH₂O as the standard volume, and gets back to the stable performance again via the built-in calibration mode.

- **Compared to other spectrophotometers**

There are some kinds of micro volume spectrophotometer for DNA, RNA and protein right now. But MaestroNano Pro is definitely the most special one. Most spectrophotometers use whole wavelength spectrum from 200nm to 900nm, need calibration by experts time to time, and install software in another stand-alone computer to operate. MaestroNano Pro provides a much better and more economical solution for most functions. By using the specific useful wavelengths (230/260/280/320nm) and automatic calibration, the embedding operating system offers an outstanding performance of accuracy and a much lower price compared to other spectrophotometers. Also, MaestroNano Pro is a "non-optical-fiber" system, which can contribute to the longer product life-time compared to others embedded with optical fiber as consumables.



Transilluminator

UltraSlim® LED Transilluminator
UltraBright LED Transilluminator
UltraSlim UV Transilluminator
UltraBright UV Transilluminator
BandPeeper LED Transilluminator
SlimWhite

Whole New designs! Transilluminators are the first choices for analytical applications with cutting-edge construction for increased performance and efficiency.

Optimized for use with nucleic acid and protein stains such as EtBr, SYBR® Safe, SYBR Gold, SYBR® Green I & II, SYPRO® Ruby, SYPRO® Orange, Coomassie Fluor™ Orange stains, GelGreen, GelRed and Lumitein™ Protein Gel Stain.

UltraSlim® LED Transilluminator

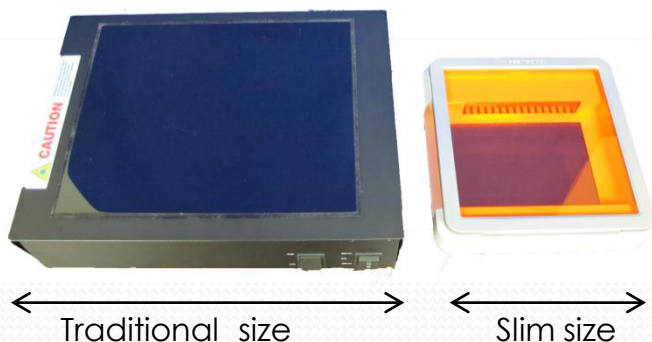
Smaller and strong

- **Smaller:**
Single-handedly take
- **Accurate:**
<10% CV across the full filter area
- **Sensitivity:**
Up to 1 ng nucleic acid
- **Safe:**
No damage to you and your samples
- **Easy:**
Easy for observation and gel cutting



The UltraSlim LED Transilluminator is designed for viewing stained gels on the laboratory bench, or within gel documentation systems. The dimensions are only 210(W) x 210(D) x 30(H)mm.

Lighting from the LED source inside the instrument produces blue light with a narrow emission peak centered at approximately 470 nm, which is more effective for the excitation of most nucleic acid and protein stains.



Ordering Information and Specification:

Products	UltraSlim LED
Cat No.	SLB-01W
Outer dimensions (mm)	210D x 210W x 30H
View size (mm)	120D x 70W
Wavelength (nm)	470 nm
Light source	Blue LED light
Uniformity	10 % CV
Power	DC24V/1.25A
Weight (Kg)	2.3kg

Related product:

Products	MaestroSafe Nucleic Acid loading dye	MaestroSafe Prestained dye	MiniCute Imager
Cat No.	MR-031201	MR-031203	MC-02
Description	Substitute for loading dye	Prestained with agarose	Imagers for DNA and protein gels photography which is also easy for gel cutting after photography

UltraSlim[®] Blue LED + White Light panel

ILLUMINATOR

The UltraSlim LED illuminator is not only designed for viewing DNA/RNA gels, also has a whole new white light panel to use for protein gels on the laboratory bench, or within gel documentation systems.

Lighting from the LED source inside the instrument produces blue light with a narrow emission peak centered at 470 nm and a high brightness white light, which is more effective for the excitation of most nucleic acid and protein stains.



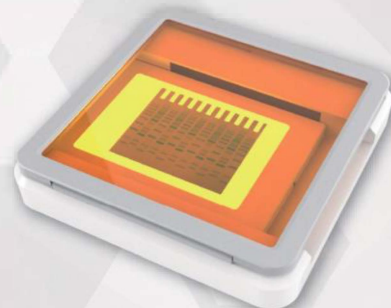
DNA/RNA gel
Blue light LED



Specification

Cat no.	SLB-03W (SLB-01W+SW-04)
Dimensions (mm)	210 (D)* 210 (W)* 30 (H)
View Size (mm)	120 (D)* 70 (W) - Blue 130 (D)* 90 (W) - White
Light Source	Blue LED (470nm)+White LED
Uniformity	10 % CV
Blocking filter	Amber color
Power	DC 12V / 2.5A
Weight (Kg)	2.6

Protein gel
White light LED



UltraBright LED Transilluminator

Safe for You, Good for your sample

- **Accurate:**
< 5% CV across the full filter area
- **Sensitivity:**
Up to 1 ng nucleic acid
- **Safe:**
No damage to you and your samples
- **Easy:**
Easy for observation and gel cutting
- **Flexibility:**
Suit for several kinds of stains and adjustable intensity

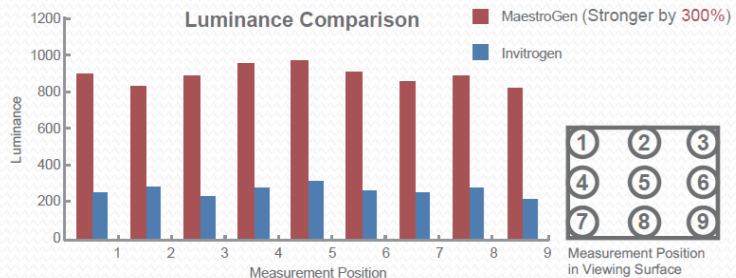


The UltraBright LED Transilluminator is designed for viewing stained gels on the laboratory bench, or within gel documentation systems.

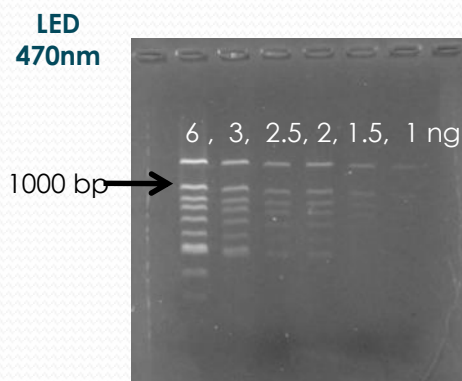
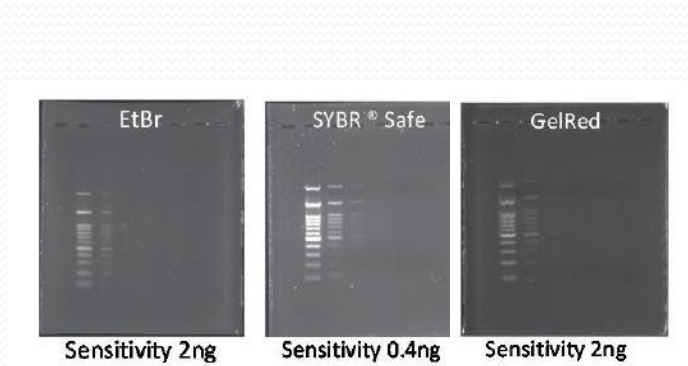
Light from the LED source inside the instrument producing light with a narrow emission peak centered at approximately 470 nm, effective for the excitation of nucleic acid and protein stains such as EtBr, SYBR® Safe, SYBR Gold, SYBR® Green I & II, SYPRO® Ruby, SYPRO® Orange, Coomassie Fluor™ Orange stains, GelGreen, GelRed and Lumitein™ Protein Gel Stain.



Variance of light < 5%,
the best spec in the world



The best uniformity and intensity



The best sensitivity (1 ng) when MaestroSafe is used combined with MaestroGen LED Transilluminator.

Ordering Information and Specification:

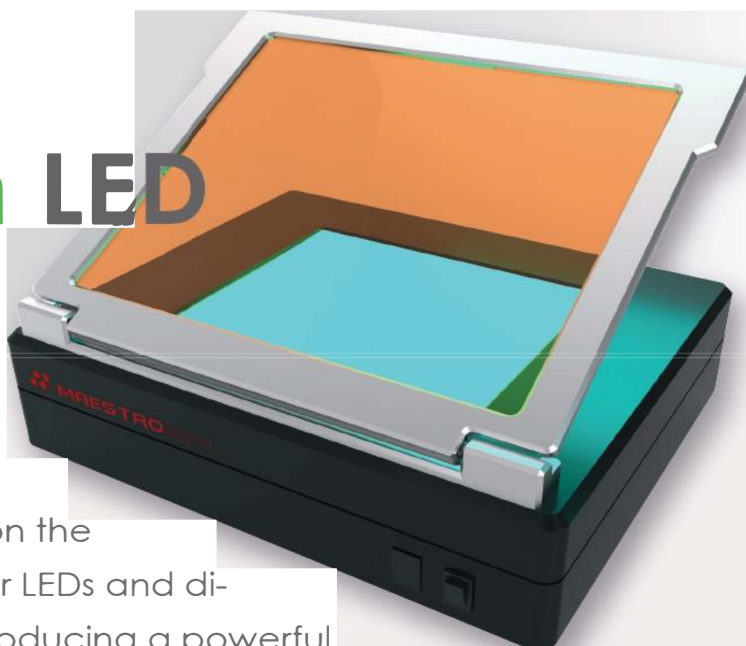
Products	UltraBright LED Transilluminator	
	LB-16	LB-17
Cat No.	LB-16	LB-17
Outer dimensions (mm)	280D x 340W x 80H	280D x 340W x 80H
View size (mm)	160D x 200W	160D x 200W
Wavelength (nm)	470 nm	470 (Blue), 530 (Green), 630 (Red); no 630(Red) filter
Light source	Blue LED light	Blue Green Red LED light
Uniformity	< 5% CV	< 5% CV
Power	24V - 1.25A	24V - 1.25A
Weight (Kg)	3.6 kg	3.6 kg

Related product:

Products	MaestroSafe Nucleic Acid loading dye	MaestroSafe Prestained dye	MiniCute Imager
Cat No.	MR-031201	MR-031203	MC-02
Description	Prestained with agarose.	Substitute for loading dye.	Imagers for DNA and protein gels photography which is also easy for gel cutting after photography

UltraBright[®] Blue/Green LED

(TRANSILLUMINATOR)



MaestroGen UltraBright Blue/Green LED Transilluminator is designed for viewing stained gels on the laboratory bench. With high power LEDs and dichroic filter inside the instrument producing a powerful emission light and remove background completely, effective for the excitation stains such as EtBr, SYBR Green, GelGreen, GelRED, GFP, EGF-Pand. In addition, the light source won't be caused DNA degradation.

Specification



Blue/Green
LED light



UV light

Comparison the Ethidium Bromide gel results with Blue/Green LED light and UV light

Cat. NO.: LB-18

Wavelength: 505nm

Light Source: Nichia LED

Viewing Size: 160(D)*200(W)mm

Blocking Cover: Aluminum alloy metal frame

Consumption: 24 Watt

Filter: Amber color

Power: AC100-240V~50/60 Hz

Weight: 3.8 Kg

Dimensions: 280(D)* 340(W)* 80(H)mm

UltraSlim UV Transilluminator

As small as it can be

- **Smallness:**
One-handed lifting
- **Accuracy:**
<5% CV across the viewing area
- **Sensitivity:**
Up to 0.5 ng nucleic acid Higher S/N ratio
- **Ease:**
Easy for observation and gel cutting



This UV Transilluminator is equipped with a new-design UV blocking cover which is easily detachable for access to the work surface.



Ordering Information and Specification:

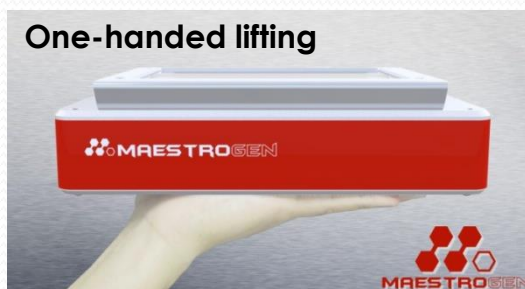
Products	UltraSlim UV Transilluminator
Cat No.	UUV-01
Outer dimensions (mm)	247D x 132W x 48.5H
View size (mm)	150D x 80W
Wavelength (nm)	302 nm
Light source	UV lamp X1
Uniformity	+/- 5 %
Power	DC12V/1.5A
Weight (Kg)	1.4 kg



GeneBio
Systems, Inc.™

Specialists in Economical Quality Lab Supplies

One-handed lifting



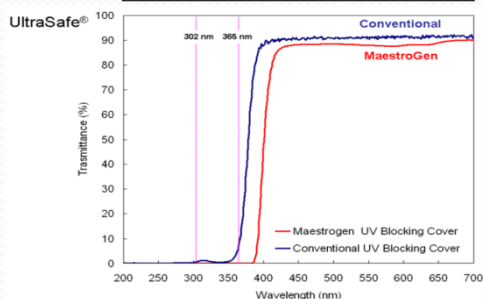
UltraBright UV Transilluminator

High contrast, Strong frame

- **Accuracy:**
 < 5% CV across the viewing area
- **Sensitivity:**
 High contrast with strong frame, up to 0.1 ng nucleic acid
- **Safety:**
 UltraSafe UV blocking cover block 99.99% UV transmittance
- **Ease:**
 Easy for observation and gel cutting
- **Flexibility:**
 Adjustable intensity



UV transmittance	MaestroGen	Conventional
UVA (365 nm)	< 0.1%	8%
UVB (302 nm)	0%	0.38%



High contrast and 99.99% UV transmittance

Ordering Information and Specification:

Products	UltraBright UV Transilluminator			
Cat No.	MLB-21	MB-21	MLB-16	MB-16
View size (mm)	210D x 260W	210D x 260W	160D x 200W	160D x 200W
Wavelength (nm)	302 & 365nm	302 nm	302 & 365nm	302 nm
Light source	UV tubes: 11 x 8W	UV tubes: 6 x 8W	UV tubes: 9 x 8W	UV tubes: 5 x 8W
Blocking cover	Aluminum alloy frame			
Power	100-240V, 50-60Hz			
Weight (Kg)	4.3kg			
Outer dimensions (mm)	280D x 340W x 80H			

Related product:

Products	MiniCute Imager
Cat No.	MC-02
Description	Imagers for DNA and protein gels photography which is also easy for gel cutting after photography



Our Information

Current Warehouse: 5109 Harvester Rd,
Unit 12B, Burlington, ON, Canada L7L 5Y9

Our New Warehouse in 2023: 760
Laurentian Drive, Unit 20, Burlington, ON
L7N 3W7

info@genebiosystems.com

order@genebiosystems.com

647 770-8019

Toll-free 1(833)-LabShop 1(833)-5227467

Join Us-Career Opportunities

*We are hiring-Two **Sales Reps**, in Ontario
and GTA Region -Please send your
application to admin@genebiosystems.com*

[GET DIRECTIONS](#)

BandPeeper LED Transilluminator

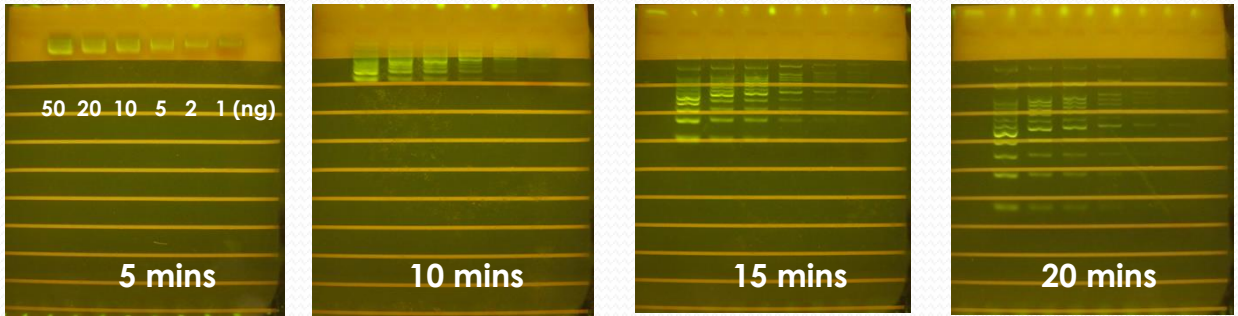
Real-time in gel

- **Innovation:**
The first platform for real-time electrophoresis in gel in the world
- **Convenient:**
Time and cost saving for new sample electrophoresis trial & error
- **Sensitivity:**
2 ng nucleic acid
- **Safe:**
No damage to you and your samples

MaestroGen offers BandPeeper real-time electrophoresis LED transilluminator for DNA gel fluorescent signal observation in water solution. Compatible with Mupid-size tank (Mupid exU series: Mupid exU, Mupid ACE, and Mupid ONE)

- Accurate electrophoresis duration control
- Strong blue LED used with common nucleic acid dyes
- Anti-fog design on amber filter; anti-water condensation
- No decay for DNA gel (UV flashlamp decays DNA gel)





The real-time observation of electrophoresis in gel

Ordering Information and Specification:

Products	BandPeeper LED Transilluminator
Cat No.	RT-172
Outer dimensions (mm)	166D x 170W x 51H
Window size (mm)	150D x 60W
Wavelength (nm)	470 nm
Light source	Blue LED light
Filter type	Amber filter
Power	24V - 1.25A
Weight (Kg)	0.9 kg
Filter surface	Anti-Fog treatment
PCBA surface	Anti-moisture treatment
Compatibility	Mupid tanks (Mupid exU series: exU, ACE, and ONE)

Related product:

Products	MaestroSafe Nucleic Acid loading dye	MaestroSafe Prestained dye
Cat No.	MR-031201	MR-031203
Description	Substitute for loading dye	Prestained with agarose

SlimWhite

ILLUMINATOR



A whole new design of SlimWhite white light panel, the light source which can be used independently, easy to view colorimetric gels, coomassie blue or silver stained media. No need to use UV for white light conversion. High brightness and low power consumption.

●Uniform:

Illumination is designed by light guide plate with diffuser

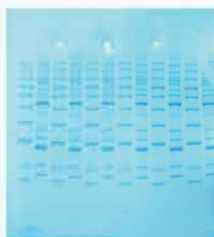
●Easy to observe:

Light source is under the gel, avoid bubble and reflection issue

●Cost Effective:

Long lifetime (~50,000 hrs), low power consumption

Trans-illumination



Good contrast

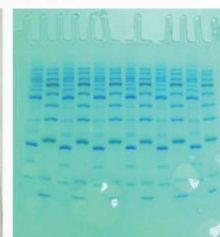
(O)

Epi-illumination



Light reflection issue

(X)



Bubble issue

(X)

Specification

Cat no.: SW-02

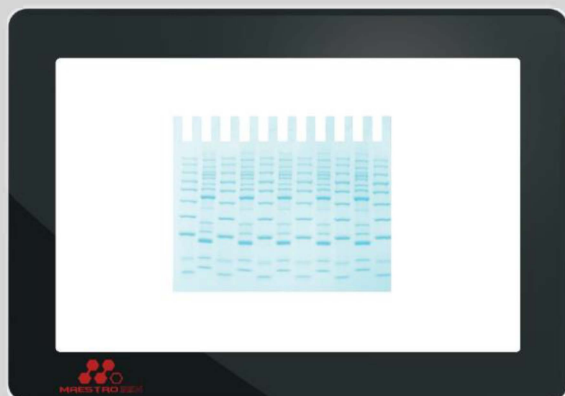
Dimensions (mm): 292 (D)* 217 (W)* 12.8 (H)

View Size (mm): 240 (D)* 160 (W)

Light Source: White light LEDs

Power: DC12V

Weight (Kg): 1.2



Imager

New Slider Imager
Mini-Imager
MiniCute Imager

MaestroGen designs the imagers for DNA and protein gels photography which is also easy for gel cutting after photography.



Mini-imager™

GEL DOCUMENTATION SYSTEM

Mini-imager™ is a small compact imager with digital camera embedded with dual lights of blue LED source (470nm) and UV bulb (302nm) illuminators.

Away from complicating operation, recording electrophoresis result is just as simple as to take a selfie. Besides that, you can easy to transfer data and print it directly via WiFi function of digital camera.

COMPACT

SMALL

DUAL LIGHT

EASE

NEW CAMERA
UPGRADE!!

Specification

Cat no.:	MI-01
Dimensions (mm):	250 (D)* 203 (W)* 364 (H)
View Size (mm):	80 (D)* 150 (W)
Wavelength (nm):	302nm,470 nm
Light Source:	UV,LED
Compatible gel size(mm):	50*60 , 105*60,125*60
Camera:	Canon M-series type
Effectivepixel:	24.2 Megapixels
LCDSize:	3" TFT Color
Lens:	15mm ~45mm lens, F1.8 (W) – F11.0 (T)
Mode:	(P),(A),(S),(M)
ISO:	Auto,100,200~51200 (recommend under ISO800 for operation)
Shutter Speed(s):	1/4000~30second
Video Output:	NTSC/PAL selectable (HDMI)
Interface:	USB(v.2.0),Wi-Fi
Storage Media:	SD,SDHCmemorycard
Storage Format:	JPEG(ExifVer2.3),RAW
Dimensions(mm):	108* 66.6* 35
Power:	DC12V / 2A adapter
Weight (Kg):	4.8

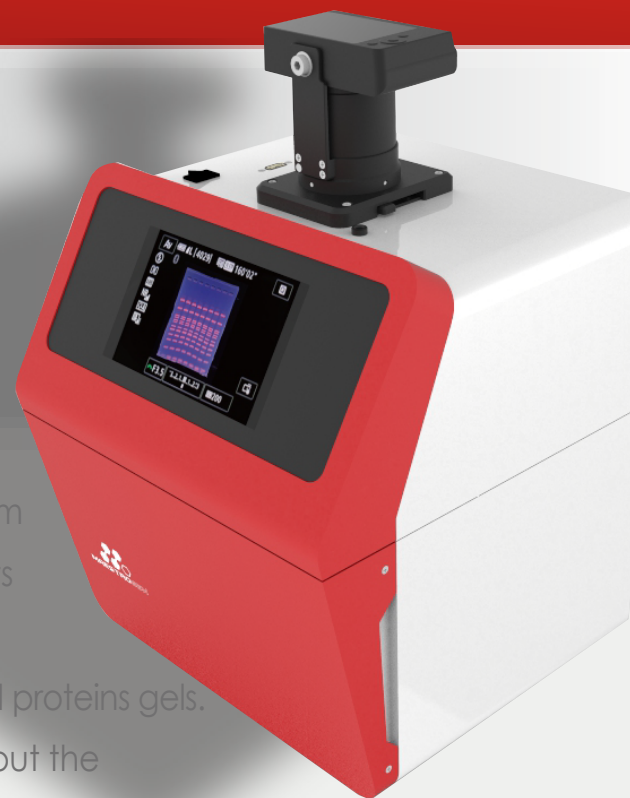


Canon EOS M200



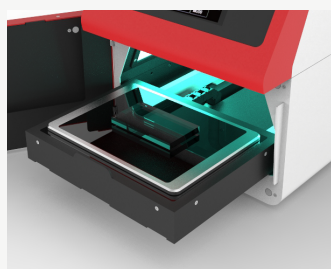
Mini-Imager™

GEL DOCUMENTATION SYSTEM

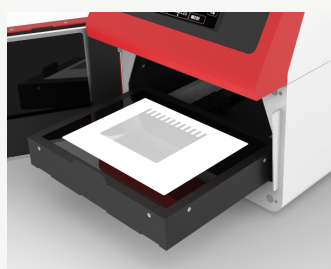


Mini-imager™ is a small compact gel documentation system it uses a digital camera and also embedded with dual lights of blue/green light source(505nm) and white light panel. It's a very easy and efficient way to use for the DNA/RNA and proteins gels. Separate surface plates design that don't need to worry about the contamination issues

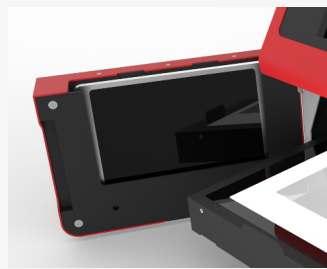
Not only could operate the camera directly with large LCD monitor but also the camera could be controlled by software of computer.



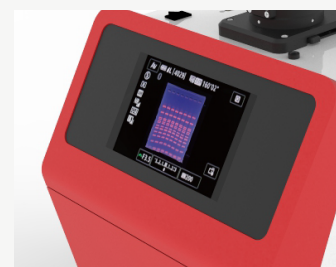
Metal-plate for DNA gels



White light panel for Protein gel



Metal-plate storage space



Embedded 7" LCD monitor

Specification

Cat no.:	MI-02
Dimensions (mm):	300 (D)* 310 (W)* 450 (H)
View Size (mm):	160 (D)* 200 (W)
Light Source:	Blue/Green, White
Filter:	Amber, Clear
Camera:	Canon M-series type
Effective pixel:	24.2 Megapixels
LCD Monitor:	7" TFT Color
Lens:	15mm ~ 45mm lens, F1.8 (W) – F11.0 (T)
Mode:	(P), (A), (S), (M)
ISO:	Auto, 100, 200 ~ 51200 (recommend under ISO800 for operation)

Shutter Speed(s):	1/4000 ~ 30second
Video Output:	NTSC/PAL selectable (HDMI)
Interface:	USB(v.2.0), Wi-Fi
Storage Media:	SD, SDHC memory card
Storage Format:	JPEG(ExifVer.2.3), RAW
Power:	DC12V / 2.5A adapter
Weight (Kg):	5.0



MiniCute Imager

GEL DOCUMENTATION SYSTEM

MiniCute imager, compact size, compatible with MaestroGen's UV and blue LED transilluminators.

- 100% fit to all MaestroGen's LED or UV illuminators
- Branded digital camera, 100% dark room for photography

MiniCute imager is an easy gel image system, recommend to use with UltraSlim® LED Illuminator, UltraBright LED Transilluminator and UltraBright UV Transilluminator



COMPACT

SMALL

LIGHT

EASE

Specification

Cat no.: MC-02
 Dimensions (mm): 275 (W)* 238 (D)* 250 (H)
 Filter: Amber filter and UV-cut filter
 Weight (Kg): 1.1

Camera: Canon M-series type
 Effectivepixel: 24.2 Megapixels
 LCDSize: 3" TFT Color
 Lens: 15mm ~45mm lens, F1.8 (W) – F11.0 (T)
 Mode: (P),(A),(S),(M)
 ISO: Auto,100,200~51200
 (recommend under ISO800 for operation)

Shutter Speed(s): 1/4000~30second
 Video Output: NTSC/PAL selectable (HDMI)
 Interface: USB(v.2.0),Wi-Fi
 Storage Media: SD,SDHCmemorycard
 Storage Format: JPEG(ExifVer2.3),RAW
 Dimensions(mm): 108* 66.6* 35



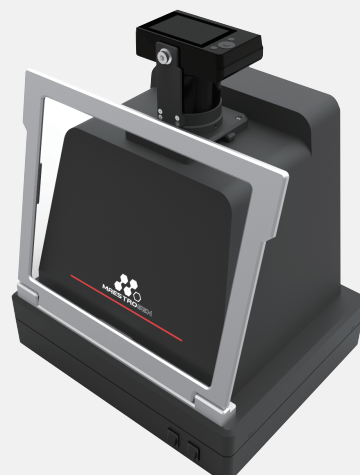
Canon EOS M200



UltraBright LED Transilluminator (LB-16, LB-18)



UltraSlim® Blue LED illuminator (SLB-01W)



UltraBright UV Transilluminator (MLB-21, MLB-16, MB-21, MB-16)

