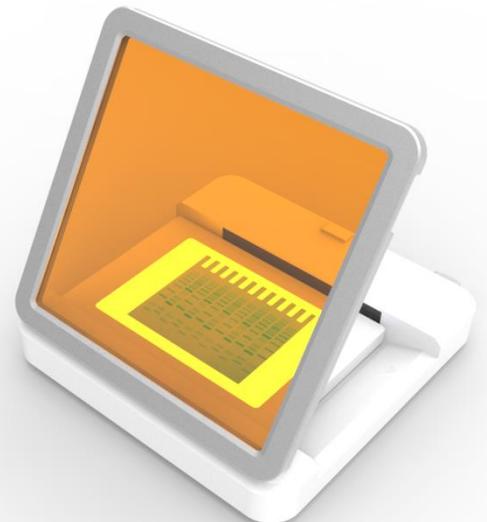


MAESTROGEN



2022 Product Catalog



Micro-Volume Spectrophotometer

MaestroNano

MaestroGen develops the MaestroNano spectrophotometer, which is user friendly, reproducible and repeatable. There are only three buttons as user interface. After dispensing sample on the surface of glass, users may use the buttons to select sample type and begin to measure. The measurement results can be obtained from touch panel and thermal printer.

MaestroNano spectrophotometer does not intend to change light path length during measurement to reduce frequency of calibration. The main function of MaestroNano is the concentration measurement from two micro liter nucleic acid or protein solution.

MaestroNano



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/ μ L) 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



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

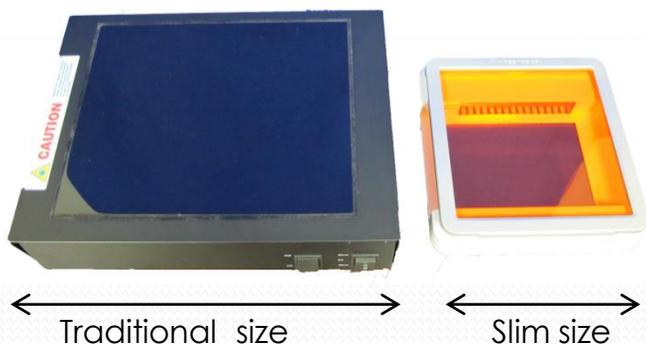
Smaller and strong

- **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

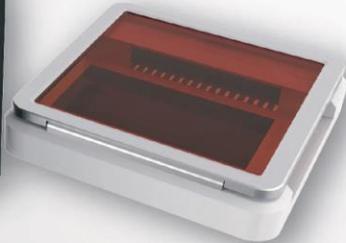
UltraSlim[®] Blue LED + White Light panel

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.



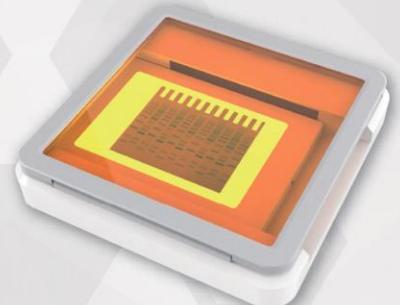
DNA/RNA gel
Blue light LED



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

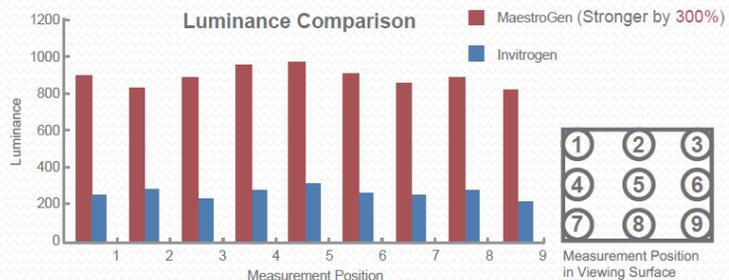


The UltraBright LED Transilluminator is designed for viewing stained gels on the laboratory bench, or within gel documentation systems.

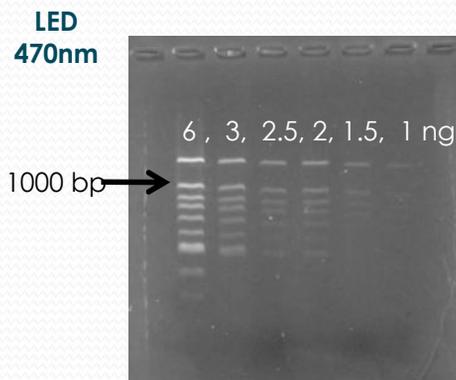
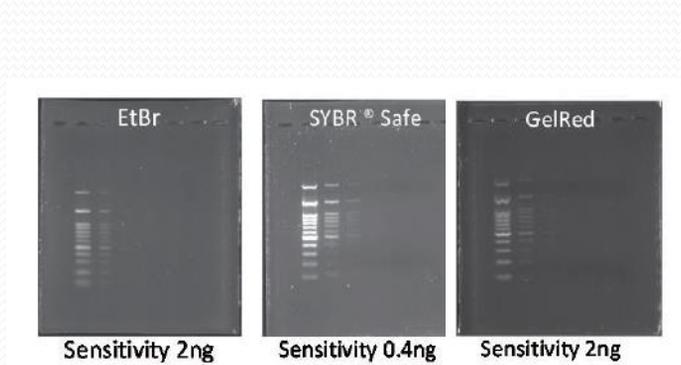
Light from the LED source inside the instrument producing light with a narrow emission peak centered at approximately 470 nm, effective for the excitation of nucleic acid and protein stains such as EtBr, SYBR® Safe, SYBR Gold, SYBR® Green I & II, SYPRO® Ruby, SYPRO® Orange, Coomassie Fluor™ Orange stains,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

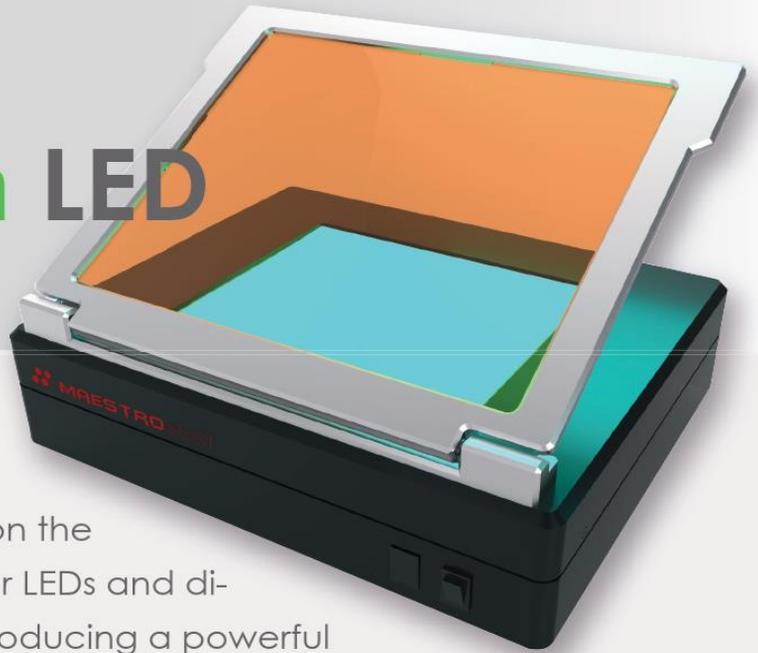
Products	UltraBright LED Transilluminator	
Cat No.	LB-16	LB-17
Outer dimensions (mm)	280D x 340W x 80H	280D x 340W x 80H
View size (mm)	160D x 200W	160D x 200W
Wavelength (nm)	470 nm	470 (Blue), 530 (Green), 630 (Red); no 630(Red) filter
Light source	Blue LED light	Blue Green Red LED light
Uniformity	< 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

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



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

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

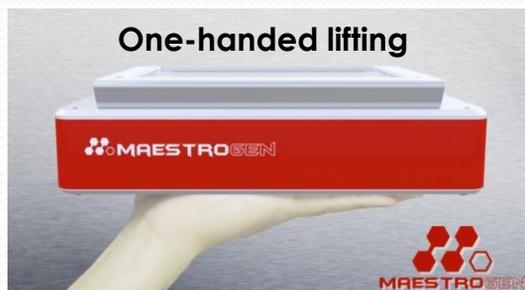


This UV Transilluminator is equipped with a new-design UV blocking cover which is easily detachable for access to the work surface.



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



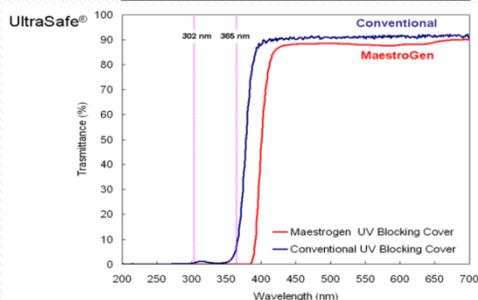
UltraBright UV Transilluminator

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

BandPeeper LED Transilluminator

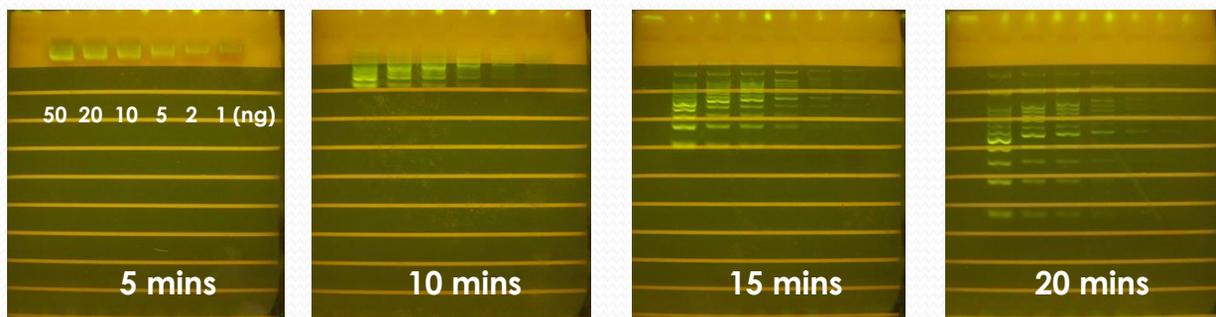
Real-time in gel

- **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

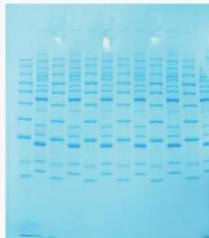
● **Easy to observe:**

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



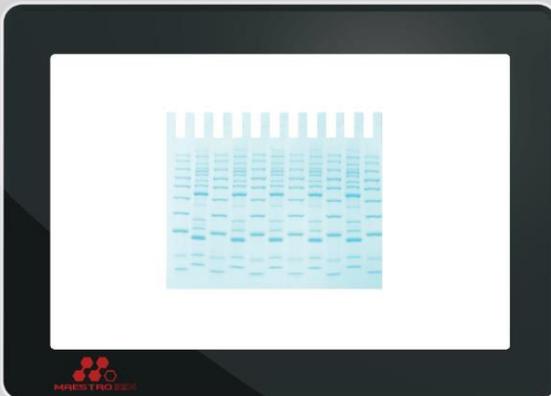
Light reflection issue

(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

I^mager

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™

Simple, Smart, Smaller

- **Dual wavelength light source:**
 - (1) UV light (302nm): Better sensitivity
 - (2) Blue LED (470nm): Better downstream data
- **Compact:**
Smaller dimension, save your working area
- **Convenient:**
Wi-Fi data transfer, easy to download your data and print via Wi-Fi

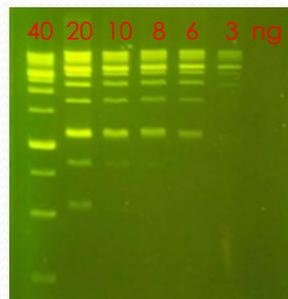


Mini-Imager™ UV/LED is a small digital camera imager embedded with both blue light (470nm) and UV (302nm) transilluminators.

Away from complicating operation, recording electrophoresis result is just as simple as to take a selfie. Besides that, you can transfer data and print it directly via Wi-Fi.



UV light image
Suggest for DNA fragment
size identification



Blue light image
Suggest for DNA cloning, gel
extraction, and sequencing

UV and Blue light gel imager with switchable filters

Ordering Information and Specification:

Products	Mini-imager™
Cat No.	MI-01
1)Dimensions:	WxDxH 250x203x364mm
2)Light Source:	UV-B (302nm) and LED (470nm)
3)Viewing Size:	WxD 150x80mm
4)Power:	DC12V-2A adapter
5)Compatible gel size:	50x60mm,105x60mm,125x60mm
6)Camera:	Canon EOS M-series type
	(1) Effective pixel: 24.7 Mega pixels
	(2) LCD Size: 3" TFT Color
	(3) Lens: 5x lens, F1.8 (Wide) – F8.0 (Telephoto)
	(4) Mode: Program (P), Aperture Priority (A), Shutter Priority (S), Manual (M)
	(5) ISO: Auto/80/100/125/160/200~25600 (recommend under ISO 800 for operation)
	(6) Shutter Speed: 30~1/4000 second
	(7) Video Output: NTSC / PAL selectable
	(8) Interface: USB (v.2.0), Wi-Fi compatible
	(9) Storage Media: SD/SDHC memory card
	(10) Storage Format: JPEG (Exif Ver 2.30) /RAW
	(11) Weight: 320g
	(12) Dimensions: 108.2x67.1x35.1mm
7)Weight:	8 KG

MiniCute Imager

Small, Light, and Easy

- **Switchable filters:**
Switchable UV and blue light filters
- **Compact:**
Smaller dimension, save your working area
- **Convenient:**
Wi-Fi compatible, easy to download and print the image
- **Easy-to-use:**
No complex interface, just operate the digital camera
- **Open system:**
High compatibility to other brand transilluminators

MiniCute Imager is an easy gel image system. Compatible with MaestroGen UltraSlim® LED, UltraBright LED and UltraBright UV Transilluminators.

Embedded with Canon digital camera, 100% dark room for photography.



Ordering Information and Specification:

Product	MiniCute Imager
Cat No.	MC-02
Outer dimensions	WxDxH 275x238x250mm
Filter	Amber filter (for blue light) and UV-cut filter
Weight	2 kg
Digital camera	Canon EOS M-series Type (1) Effective pixel: 24.7 Mega pixels (2) LCD Size: 3" TFT Color (3) Lens: 5x lens, F1.8 (Wide) – F8.0(Telephoto) (4) Mode: Program (P), Aperture Priority (A), Shutter Priority (S), Manual (M) (5) ISO: Auto/80/100/125/160/200~25600 (6) Shutter Speed: 30~1/4000 second (7) Video Output: NTSC / PAL selectable (8) Interface: USB (v.2.0), Wi-Fi compatible (9) Storage Media: SD/SDHC memory card (10) Storage Format: JPEG (Exif Ver 2.30)/RAW (11) Weight: 320g (12) Dimensions: 108.2x67.1x35.1mm

Related product:

Product	UltraSlim® LED Illuminator	UltraBright LED Transilluminator	UltraBright UV Transilluminator
Cat No.	SLB-01W /SLB-03W	LB-16	MLB-21/MB-21 MLB-16/MB-16
Description	viewing stained gels on the laboratory bench, or within gel documentation system		

Reagent

MaestroSafe
DNA Ladder
Protein Ladder

Non-carcinogenic nucleic acid prestained dye for visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels.

MaestroGen supplies a wide range of products for accurate size and mass estimations (Quantitation) of nucleic acid/protein fragments.

MaestroSafe™

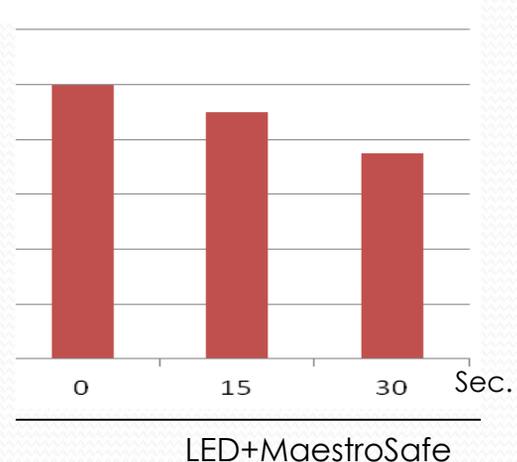
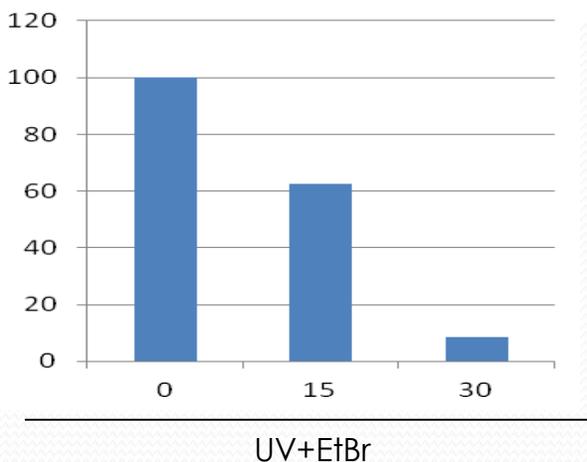
Safe for You, Good for your sample

MaestroSafe™ products represent a new and safe class of nucleic acid dyes for visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels. The dyes are developed to replace toxic Ethidium Bromide (EtBr, a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose gels.

MaestroSafe™ products are non-carcinogenic by the Ames-test. The results are negative in both the mouse marrow chromophilous erythrocyte micronucleus and mouse spermary spermatocyte chromosomal aberration tests.



Cloning efficiency of MaestroSafe™ and LED, compared with EtBr and UV



Ordering Information and Specification:

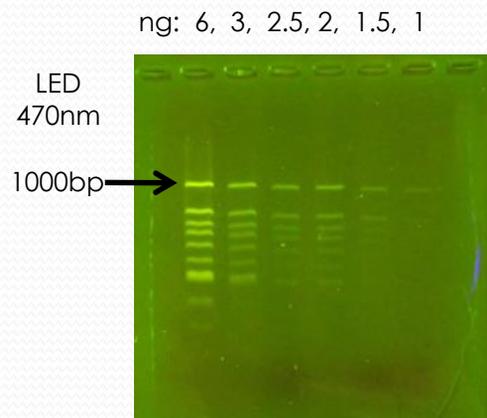
Products	MaestroSafe™ Nucleic Acid Prestained Dye	MaestroSafe™ Nucleic Acid Loading Dye
Cat No.	MR-031203	MR-031201
Size	1ml	1ml
Description	Prestained with agarose	Substitute for loading dye

Related product:

Products	UltraSlim® LED Transilluminator	UltraBright LED Transilluminator
Cat No.	SLB-01/SLB-01W	LB-16
Function	Viewing stained gels on the laboratory bench, or within gel documentation systems	

According to the cloning efficiency test, DNA stained with EtBr and exposed by UV light will reduce the efficiency of cloning. The group of MaestroSafe™ and LED light shows the better cloning efficiency.

It demonstrates that MaestroSafe™ and LED will enhance cloning efficiency.

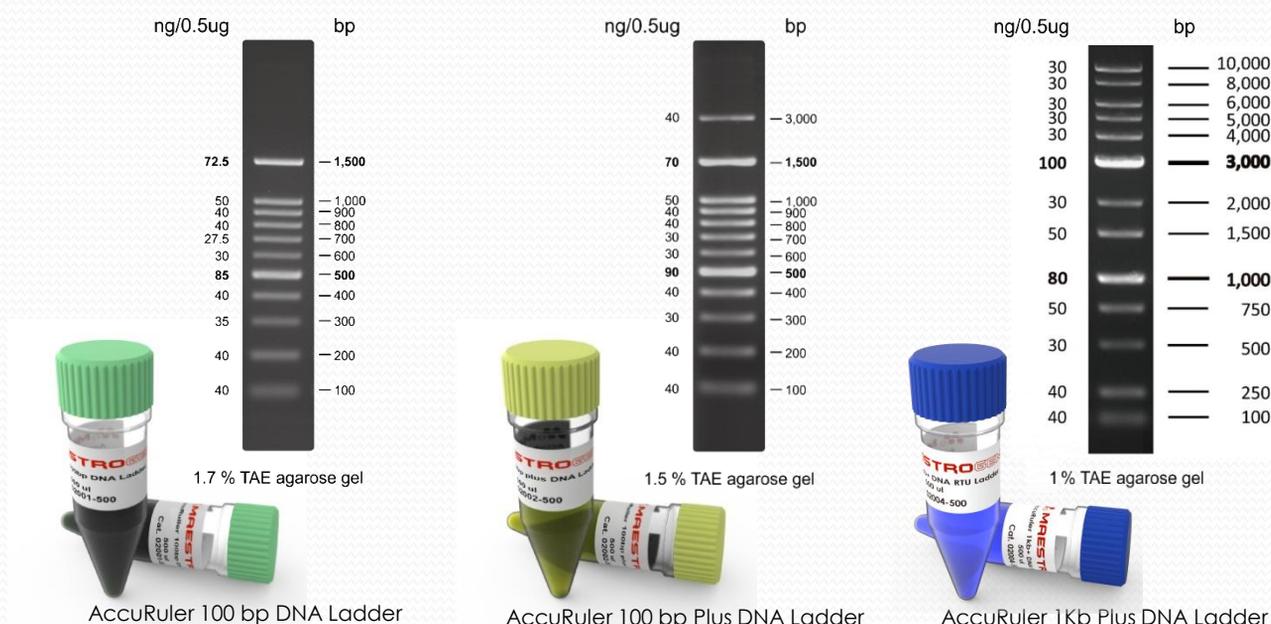


The best sensitivity (1 ng) when MaestroSafe™ is used combined with MaestroGen LED Transilluminator.

DNA Ladder

Accurate size and mass estimations

DNA Ladders comprising of fragments of specific base pair length are available for estimation of molecular weights from 100bp to 10Kb. For easy determination of band size, several DNA Ladders include bands that are two to three times more intense.



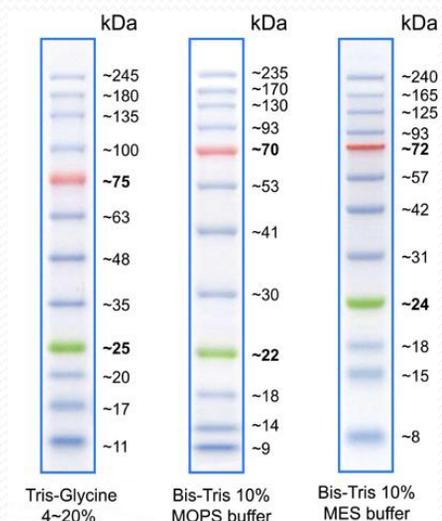
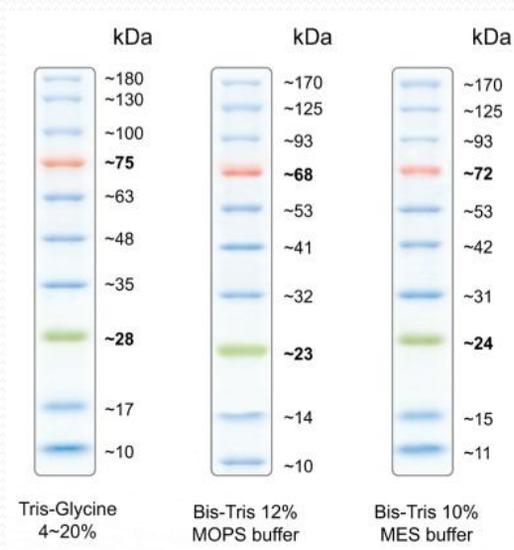
Ordering Information and Specification:

Products	AccuRuler 100 bp DNA Ladder	AccuRuler 100 bp Plus DNA Ladder	AccuRuler 1Kb Plus DNA Ladder
Cat No.	02001-500	02002-500	02004-500
Size	50µg / 500µl	50µg / 500µl	50µg / 500µl
Range	100 bp to 1500 bp. The 500 bp and 1,500 bp bands have increased intensity	100 bp to 3,000 bp. The 500 bp and 1,500 bp bands have increased intensity	100 bp to 10 kb. The 1 kb and 3kb bands have increased intensity
Mass/band	0.5 µg/ 5 µl	0.5 µg/ 5 µl	0.5 µg/ 5 µl

Protein Ladder

Sharp and stable

Protein Ladders comprising of fragments of specific base pair length are available for estimation of molecular weights from 10kDa to 180kDa.



AccuRuler RGB Prestained Protein Ladder



AccuRuler RGB Plus Prestained Protein Ladder

Ordering Information and Specification:

Products	AccuRuler RGB Prestained Protein Ladder	AccuRuler RGB Plus Prestained Protein Ladder
Cat No.	02101-250	02102-250
Size	250µl, reference bands – red at ~75 kDa and green at ~25 kDa.	250µl, reference bands – red at ~75 kDa and green at ~25 kDa.
Range	10 to 180 kDa	8 to 245 kDa
Mass/band	0.5 µg/ 5 µl	0.5 µg/ 5 µl

UV sterilizer

Intelligent UVC sterilizer



Simple, easy and convenient

Product is connected to a wireless network for operation via a mobile phone or tablet devices.



Compact and lightweight design

Compact and lightweight design, easy to setup and flexible for any space.

99.9%

Effective disinfection

Use UVC germicidal lamps, no chemicals, it can effectively kill 99.9% germs, also no need to clean up after use.



Schedule and timer

Easy to use a mobile phone or tablet to set up timer or schedule for disinfection.



UVS-36



UVS-144



UVS-72



UVS-18



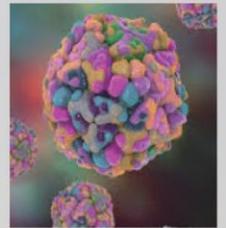
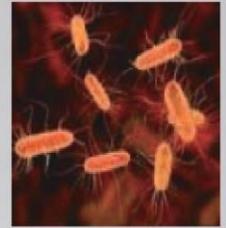


Ultraviolet Dosage

Germicidal lamps provide effective protection against microorganisms.

* Nominal Ultraviolet dosage(uW/cm² *sec) necessary to inactivate better than 99% of specific microorganism.

Organsim	Type	Dose*
Escherichia coli	Bacteria	6,600
Staphylococcus aureus	Bacteria	6,600
Corynebacterium diphtheriae	Bacteria	6,500
Mycobacterium tuberculosis	Bacteria	10,000
Micrococcus candidus	Bacteria	12,300
Serratia Marcescens	Bacteria	6,160
Pseudomonas aeruginosa	Bacteria	3,900
Staphylococcus epidermidis	Bacteria	5,800
Enterovirus	Virus	6,500
Influenza	Virus	6,600
Adeno Virus	Virus	4,500
Coxsackie	Virus	6,300



Specification

Model:	UVS-144	UVS-72	UVS-36	UVS-18
Lamp type:	UVC [2G11]			
wavelength(nm):	253.7			
Power(watt):	144	72	36	18
Intensity(uW/cm ²):	1,360	620	450	400
Input:	AC 100- 240V 50/60Hz			
Wi-Fi:	IEEE 802.11 b/g/n 2.4GHz			
Support OS:	Android 4.1, iOS 9.0 or higher version			
OS language:	English, French, Italian, German, Bulgarian, Czech, Danish, Greek, Polish, Portuguese, Russian, Slovak, Spanish, Traditional Chinese, Turkish			
Dimension: (WxHxD)mm	260*170*475	260*85*475		260*85*285
Weight(kg):	2.9	1.8	1.5	1.3
Package Dimension(mm):	495*235*165		470*209*138	
Weight(kg):	3.3	2.4	2.2	2.0

*: measured vlaue distance is 30cm

