


Embi Tec®

MiniCatalog 2019-2020



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Ordering Information

Orders may be placed by:

Email orders@embitec.com

Telephone 1 858 684-3190 or 1 800 255-1777

Fax 1 858 684-3195

Online embitec.com (US only)

All prices are in US dollars. We accept PO and credit card payments in US dollars for purchases and shipments to USA addresses. For purchases and shipments to outside of USA, please contact us by phone or email.

PrepOne™ Sapphire with Photo Hood

A BLUE LED ILLUMINATOR FOR SMART DEVICES



"We don't have to go down to the darkroom to take pictures. It makes things go so much faster in the lab."

Compact. Collapsible hood. Use your smartphone or tablet.

First-of-its-kind blue LED light box that allows you to visualize DNA bands without a protective mask, shield, or filter obstructing your access to the gel. Blue LEDs illuminate the gel from the side, exciting the fluorescent dye so you can see the bands with the naked eye without over-saturating the background of the gel.

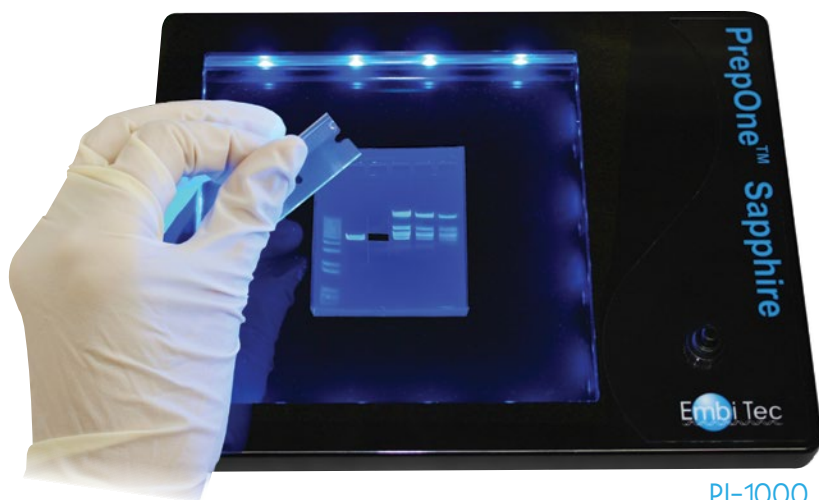
Set includes:

PrepOne Sapphire Blue LED Illuminator, Photo Hood for Smart Devices, Amber Filter, Cutting Mats (x2), (phone/tablet not included)

Cat.No.	Description	List Price
PI-1009	PrepOne Sapphire Blue LED Illuminator with Photo Hood for Smart Devices Includes: PI-1000, PI-1010, PI-1002 and PI-1003 (2/pk)	\$608.00
PI-1000	PrepOne Sapphire Unit	\$583.00
PI-1008	PrepOne Photo Hood for Smart Devices	\$ 83.75
PI-1002	PrepOne Amber Filter	\$ 38.75
PI-1003	PrepOne Cutting Mat (5/pk)	\$ 38.75

PrepOne™ Sapphire

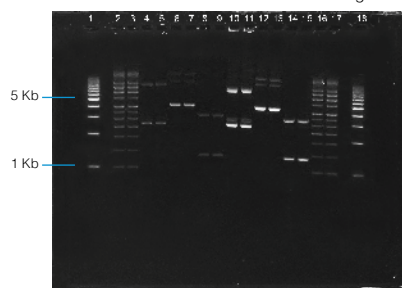
BLUE LED ILLUMINATOR



Transcend the transilluminator
FOR PREP!

- Eliminate UV and EtBr
- Higher quality DNA and better recovery
- Use non-hazardous dyes

GG5331 - 1% Agarose TAE w/ GelGreen Medium gel, 16+2 well



Run at 100V (8.33cm/V) for 90 min

After 30 seconds of UV sunbathing...



Run at 100V (8.33cm/V) for another 30 min

Lane 1 & 18: SmartMark 1 Kb ladder
Lane 2, 3, 16 & 17: Supercoiled DNA ladder
Lane 4 & 5: 25 ng Supercoiled Plasmid #1
Lane 6 & 7: 25 ng Supercoiled Plasmid #2
Lane 8 & 9: 25 ng Supercoiled Plasmid #3
Lane 10 & 11: 90 ng Supercoiled Plasmid #1
Lane 12 & 13: 75 ng Supercoiled Plasmid #2
Lane 14 & 15: 75 ng Supercoiled Plasmid #3

No UV = No photo-nicking

Because there is no UV, the PrepOne™ Sapphire yields better quality DNA that enables a significantly higher efficiency for downstream applications such as transformation or transfection.

That's all I need?

If you just need a gel picture, we've got you covered. No controls, zoom, or lighting adjustments to mess with – everything is pre-set. Simply point and shoot!



PI-2100

Connect to the WiFi network to send your pictures through email or to your computer directly from your camera!

Cat.No.	Description	List Price
PI-2100	PrepOne Sapphire and Image Catcher System with WiFi camera Includes: PrepOne Sapphire (PI-1000) and PrepOne Image Catcher with WiFi (PI-1010)	\$1,028.00
PI-1000	PrepOne Sapphire Blue LED Illuminator (100V-240V) Includes: PrepOne Sapphire unit, filter, cutting mats (2/pk), fluorescent ruler, printed tray	\$ 583.00
PI-1010	Image Catcher with WiFi camera Includes: photo hood, 12MP digital camera with WiFi + long pass filter, memory card	\$ 550.00
PI-1002	PrepOne Filter, 1/pk (Amber Filter)	\$ 38.75
PI-1003	PrepOne Cutting Mats, 5/pk	\$ 38.75
PI-1008	PrepOne Photo Hood for Smart Devices	\$ 83.75
VL-1102	Viewing Goggles, with Amber Filter (1/pk)	\$ 87.95
EC-1995	GelGreen Nucleic Acid Stain, 10,000X in water, 500 µl	\$ 106.00

GreenGel™ Cups

Drastically reduce your prep time with Embi Tec's pre-mixed, pre-stained gel cups

JUST MICROWAVE AND POUR!



Eliminate EtBr



Nonmutagenic, noncytotoxic, and fluorescent in blue light.

No spill-over



Simple process eliminates messy spills. 40 mL/cup.

Convenient package



No mixing tools needed. Simply peel back the lid, microwave, and cast your gel.

Easy storage



Stable at room temperature and compact for long-term, efficient storage.

Pre-stained with GelGreen™

Part of a new generation of fluorescent DNA stains designed to replace ethidium bromide (EtBr) and UV.



Tear
peel off
the lid



Heat
microwave
for 30 seconds



Pour
cast your
gel and go!

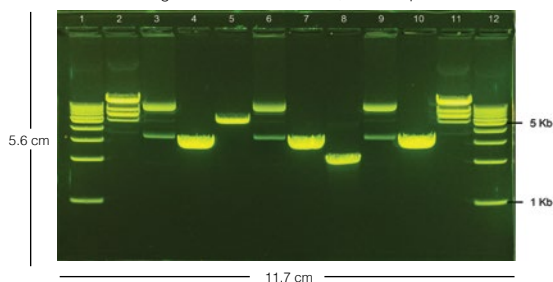
Cat.No.	Concentration	Buffer	Description	Qty. x Volume	List Price
EC-3500	0.8%	TAE	GreenGel Cup with GelGreen stain	12x40mL	\$ 39.00
EC-3501	1%	TAE	GreenGel Cup with GelGreen stain	12x40mL	\$ 39.00
EC-3502	2%	TAE	GreenGel Cup with GelGreen stain	12x40mL	\$ 39.00
EC-3503	3%	TAE	GreenGel Cup with GelGreen stain	12x40mL	\$ 50.00
EC-3504	4%	TAE	GreenGel Cup with GelGreen stain	12x40mL	\$ 50.00
EC-4500	0.8%	TBE	GreenGel Cup with GelGreen stain	12x40mL	\$ 39.00
EC-4501	1%	TBE	GreenGel Cup with GelGreen stain	12x40mL	\$ 39.00
EC-4502	2%	TBE	GreenGel Cup with GelGreen stain	12x40mL	\$ 39.00
EC-4503	3%	TBE	GreenGel Cup with GelGreen stain	12x40mL	\$ 50.00
EC-4504	4%	TBE	GreenGel Cup with GelGreen stain	12x40mL	\$ 50.00

PreCast GreenGel™

Want to escape the hazards of ethidium bromide?

The safety and sensitivity of GelGreen
will set you free!

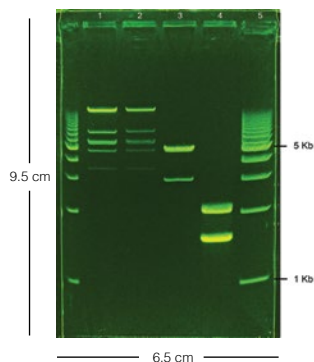
GG3600 1% Agarose TAE w/ GelGreen, Landscape Gel 12+1 well



Run at 100 V for 45 min.

- Lane# 1 & 12: SmartMark 1 Kb DNA ladder
- Lane# 2 & 11: Lambda/EcoRI Marker
- Lane# 3, 6 & 9: Plasmid DNA
- Lane# 4, 7 & 10: 3 Kb PCR Fragment
- Lane# 5: 5 Kb PCR Fragment
- Lane# 8: 2112 bp PCR Fragment

GG5100 1% Agarose TAE
w/GelGreen Portrait Gel 5+1 well



Run at 75 V for 75 min.

- Lane# 1 & 2: Lambda/EcoRI Marker
- Lane# 3: 3 Kb & 5 Kb PCR Fragment
- Lane# 4: 1545 bp & 2112 bp PCR Product
- Lane# 5: SmartMark 1 Kb Ladder

No half and half gel background

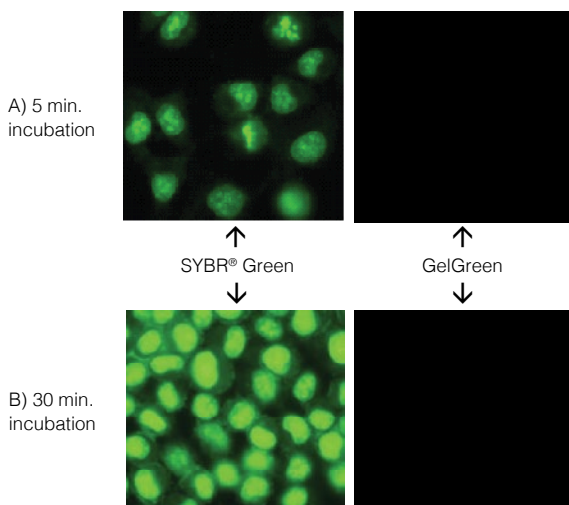
A typical EtBr gel has half of the gel brighter than the other half after electrophoresis. PreCast GreenGel has homogenous background through the run. No additional staining or destaining is needed for sharp, crisp bands.

Sensitive and safe

PreCast GreenGels are as sensitive as PreCast EtBr gels without the additional expense of hazardous waste disposal. Want it to be even safer? Use blue light illumination instead of UV light!

As safe as safe gets!

GelGreen™ dye does not penetrate latex gloves or cell membranes. Dyes are metabolized to form compounds that have negligible interaction with DNA.



HeLa cells were incubated at 37°C with 1X Sybr Green I and GelGreen respectively. Images were taken following incubation for 5 minutes (panel A) and 30 minutes (panel B), respectively. Sybr Green I entered the cells rapidly as evident from the bright green nuclear staining. GelGreen was unable to penetrate the cell membrane as shown by the lack of any fluorescent staining.

GelGreen™ Safety Summary

Latex Glove Penetration	Cell Staining		Ames Test	Hazardous Waste Screening (aquatic toxicity test)	Reactivity	Corrosivity
	Cell Membrane Permeability	Cytotoxicity				
Impenetrable	Impenetrable	Noncytotoxic	Nonmutagenic	Nontoxic to aquatic life	Unreactive	Noncorrosive

Data presented is intended to provide a brief summary of safety data on GelGreen obtained from several laboratories. If you wish to see the original test reports, please contact Biotium Technical Support.

Cat.No.	Description*	List Price
GG5100	1% Agarose TAE w/GelGreen, Portrait gel, 5+1 well 1.5 mm, 10/bx	\$ 101.95
GG3870	1% Agarose TAE w/GelGreen, Portrait gel, 10 well 1.0 mm, 10/bx	\$ 97.95
GG3600	1% Agarose TAE w/GelGreen, Landscape gel, 12+1 well 1.0 mm, 10/bx	\$ 101.95
GG3750	1% Agarose TAE w/GelGreen, Landscape gel, 24+1 well 1.0 mm, 10/bx	\$ 101.95
GG3690	1% Agarose TAE w/GelGreen, Medium gel, 5+2 well 1.5 mm, 5/bx	\$ 101.95

GelGreen™ is compatible with both Blue Light and UV.

Want other gel formats? Give us a call!!

ONE Series Pipettes



- Ultra-affordable
- Reproducibility and reliability you can trust
- Comfortable, contoured design



Fits in your hand, fits in your lab!

Plunger button

- Low pipetting force
- Color-coded by volume range

Volume adjuster

- Smooth, tactile clicks
- Easy-turn dial

High resting hook

- Short thumb reach
- Comfortable for small and large hands

Ejector button

- Low operating force

Volume display

- 4 digit display
- Color-coded by volume range

Balanced weight

- Minimizes fatigue
- Optimal weight distribution

Universal tip holder

- Accepts most leading brand pipette tips

Be good to your hands!

Cat. No.	Description	Accuracy	Repeatability	List Price	Sale Price
EA-1001	0.1–2 µl Adjustable Pipette	±12.0–1.5%	≤6.00–0.70%	\$150.00	\$ 99.00
EA-1002	2–20 µl Adjustable Pipette	±2.5–1.0%	≤1.50–0.30%	\$150.00	\$ 99.00
EA-1003	20–200 µl Adjustable Pipette	±1.8–0.6%	≤0.50–0.15%	\$150.00	\$ 99.00
EA-1004	10–100 µl Adjustable Pipette	±1.8–0.8%	≤0.50–0.15%	\$150.00	\$ 99.00
EA-1005	100–1000 µl Adjustable Pipette	±1.5–0.6%	≤0.30–0.15%	\$150.00	\$ 99.00
EA-1006	0.5–10 µl Adjustable Pipette	±2.5–1.0%	≤1.50–0.40%	\$150.00	\$ 99.00
EA-1010	Set of THREE ONE Series Pipettes: 2–20 µl, 2–200 µl, 100–1000 µl Adjustable Pipettes (1 each)				\$265.00
EA-1011	Pipette Stand for ONE Series Pipettes: holds 9 Pipettes				\$ 75.00
EA-1014	Set of FOUR ONE Series Pipettes: 0.1–2 µL, 2–20 µL, 20–200 µL, 100–1000 µL Adjustable Pipettes (1 each)				\$ 299.00
M3136	10 racks of micropipette tips (1–200 µl): with standardization tips, low binding, 96 tips/ 10 racks/pack				\$ 55.00

Multi-Speed Centrifuge

No need to change rotors for different tubes



- Intuitive displays and buttons
- Adjustable speed 1,000-10,000 RPM
- Single rotor fits 2x8x0.2ml, 6x0.5ml, and 6x1.5ml/2.0ml tubes



SPECIFICATIONS

Input voltage	100-240V AC, 50-60HZ
Operating voltage	24V DC
Drive	Brushless motor
Speed range	1000-10,000 RPM
Timer	15s-99min / Continuous operation
Timer & speed display	LCD digital
Maximum rcf	3200xg
Rotor capacity	2x8x0.2mL, 6x0.5mL, 6x1.5/2.0mL tubes
Perm. ambient temperature	+5°C to +40°C
Perm. relative humidity	80%
Protection type acc. to DIN EN 60529	IP 21
Overvoltage category	II
Dimension	200 x 160 x 130mm
Weight	0.9kg
Max.weight (with attachment)	0.5kg

Cat. No.	Description	List Price
EP-4100	Multi-Speed Centrifuge	\$375.00

RunOne™ System w/Timer



You've tried the rest,
now run the best!

With built-in power supply and timer, the RunOne Electrophoresis System delivers consistent, high quality results in a compact and convenient package.



Say "Good-bye"
to overrun gels

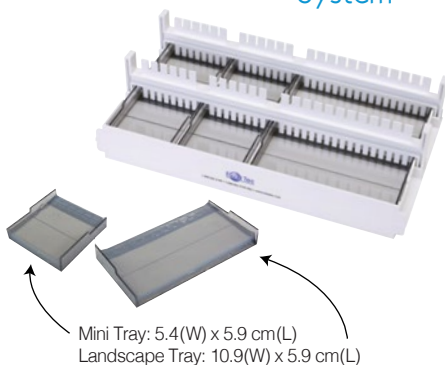
Time control on the power supply:

1. Counts down from the set time
2. Beeps at the end of the timed run and cuts power to the tank – never overrun a gel!
3. Counts up like a fancy kitchen timer so you know how long since the run has been completed.

RunOne Casting
System

Cast gels fast and put
leakage in the past

The molded casting stand eliminates leakage. No need to apply or remove tape – buffer and agarose stays in the tray and not on your bench.



Mini Tray: 5.4(W) x 5.9 cm(L)
Landscape Tray: 10.9(W) x 5.9 cm(L)

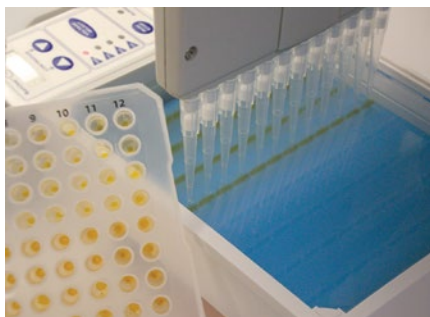


Need more wells?

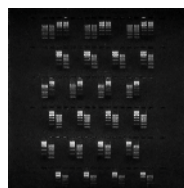
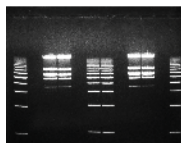
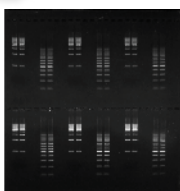
Running high-throughput gels? The MultiCaster™ System gives you the power and throughput you would never guess this cute little RunOne had.

Doing a quick check of your PCR? Run a 1% agarose 96-well gel in less than 20 minutes and start seeing bands in as little as 7 minutes!

The best part? The wells are multi-channel pipette compatible!

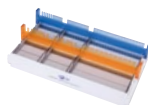


See pg.17
for details!

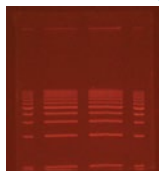


Cat.No.	Description	List Price
EP-2100	RunOne Electrophoresis System w/ Timer, 110V	\$584.00
EP-2115	RunOne Electrophoresis Unit w/ Timer, 110V	\$461.00
EP-2132	RunOne Electrophoresis System w/ Timer + Blue MultiCaster, 110V	\$862.00
EP-2134	RunOne Electrophoresis System w/ Timer + Aqua MultiCaster, 110V	\$862.00
EP-2136	RunOne Electrophoresis System w/ Timer + Orange MultiCaster, 110V	\$751.00
EP-2138	RunOne Electrophoresis System w/ Timer + Yellow MultiCaster, 110V	\$751.00
EP-1001	RunOne Casting System	\$150.00

Casting System Accessories

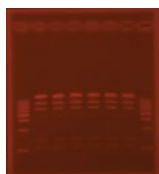


EP-1008 Prep Amber Comb



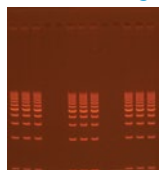
No. of Wells	Load Volume
25	12 μ l
12	11 μ l
10+2	33 μ l(10) & 27 μ l(2)
2+2 prep	58 μ l & 17 μ l
1+2 prep	134 μ l(1) & 17 μ l(2)

EP-1004 RunOne White Comb

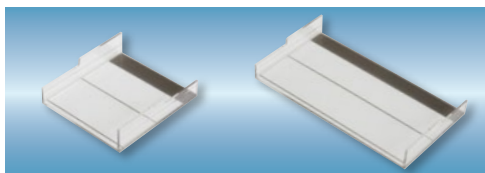
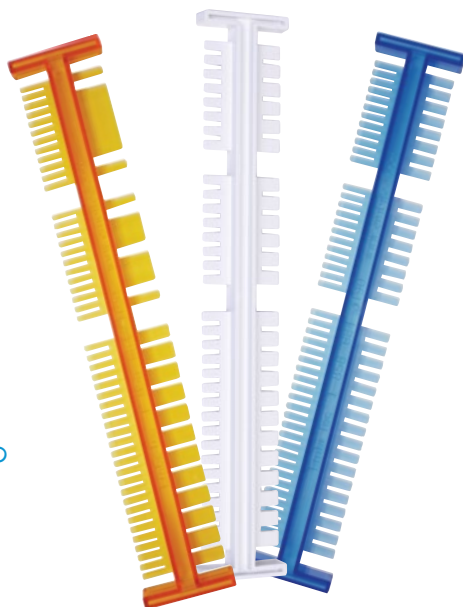


No. of Wells	Load Volume
12	35 μ l
17	12 μ l
6	35 μ l
8	12 μ l

EP-1014 High-Throughput Blue Comb



No. of Wells	Load Volume
25*	18 μ l
12*	18 μ l
17	18 μ l
8	18 μ l



- 4x Mini Tray - 5.4 (W) x 5.9 (L) cm
- 2x Landscape Tray - 10.9 (W) x 5.9 (L) cm

Your choice of trays:

EP-1005 RunOne Casting System Trays
Printed Polycarbonate (comes standard
with EP-1001 RunOne Casting System)

~or~

EP-1009 RunOne Casting System Trays
UV Transparent (accessories to EP-1001
RunOne Casting System)

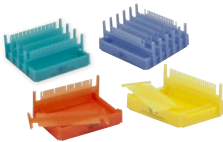
Cat. No.	Description	List Price
EP-1004	White Combs for RunOne Casting System, 2/pk	\$ 54.50
EP-1005	Printed Polycarbonate Trays for RunOne Casting System, (4 mini, 2 land)	\$ 76.00
EP-1008	Prep Amber Combs for RunOne Casting System, 2/pk	\$ 76.00
EP-1009	Printed UVT Trays for RunOne Casting System, (4 mini, 2 land)	\$ 83.00
EP-1014	High-Throughput Blue Combs for RunOne Casting System, 2/pk	\$ 76.00
EP-1015	High-Throughput Blue/ Prep Amber Combs for RunOne Casting System, 1 of each	\$ 76.00

*1.5 mm thick wells

All other combs are standard 1.0 mm thick

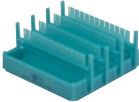
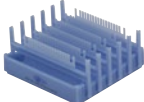
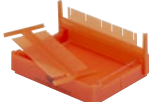

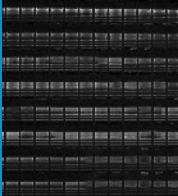
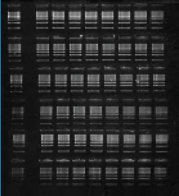
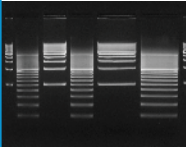
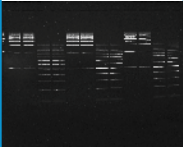
MultiCaster™ Gel Casting Systems

Run longer gels
with more samples!



Turn your RunOne™ into a high-throughput machine! Who knew that little system can run a 96-well gel!

Expand the capabilities of your RunOne Electrophoresis System with the flexible MultiCaster. Cast high throughput analytical gels with 96 wells per gel, or large volume prep gels with 250 mL per well.

Description	Aqua MultiCaster	Blue MultiCaster	Orange MultiCaster	Yellow MultiCaster
Cat.No.	EP-1018	EP-1019	EP-1017	EP-1031
Picture				
US List Price	\$328.00	\$328.00	\$217.00	\$217.00
Reversible Combs	12+1 well or 24+1 well	8+1 well or 16+2 well	2+1 well or 5+2 well	12+1 well or 24+1 well
Comb Slots	8 slots	12 slots	2 slots	2 slots
Sample Vol.	12+1 : 30 µl 24+1 : 11 µl	8+1 : 30 µl 16+2 : 11 µl	2+1 : 2(250 µl) 5+2 : 3x75 µl, 2x112 µl	12+1 : 30 µl 24+1 : 11 µl
Gel Size (L x W)	11.9 x 11.5 cm	11.9 x 11.5 cm	8.9 x 11.5 cm	8.9 x 11.5 cm
Gel Solution Vol.	87 ml (6 mm thick)	87 ml (6 mm thick)	65 ml (6 mm thick)	65 ml (6 mm thick)
Gel Picture				
Multi-Channel Compatible	Yes -12 channel	Yes - 8 channel	No	Yes -12 channel
System Components	Aqua Casting Stand, UVT Tray, 4 reversible combs (12+1/24+1), A red plate	Blue Casting Stand, UVT Tray, 6 reversible combs (8+1/16+2), A red plate	Orange Casting Stand, UVT Tray, 2 reversible combs (2+1/5+2), A red plate	Yellow Casting Stand, UVT Tray, 2 reversible combs (12+1/24+1) A red plate

ViewOne™ LabLite

Enlighten your samples!



For better visualization of:

- 96-well ELISA
- Gel-based PCR
- Lymph node dissection
- Colony picking and bacterial plates
- Hemagglutination assays (HA or HI)
- Coomassie Blue Stained gels
- Zymogram gels
- Cell colonies
- Cell culture plates
- 384-well plates

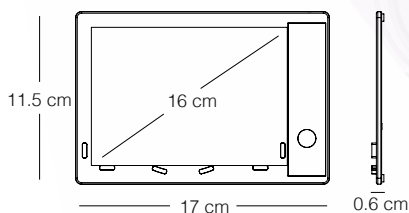
New universal tilt stand with 3 adjustable angles, 10°, 30°, or 45°

Work comfortably

This ultra-compact and water-resistant light box brings the light to your specimen allowing you to work comfortably on the bench.

Lightweight and portable

It's only slightly bigger than your smartphone – bring it with you on your next conference or field trip!



Weight : 160 g

Brighten your view

Provides a great additional backlight to enhance your imaging system or stereo microscope.



Image courtesy of our customers

See more

Whether you are doing ELISA or Hemagglutination Assays, the ViewOne™ LabLite brilliantly illuminates your samples.

96-well template

Easily identify specific wells by putting the 96-well alphanumeric template under your plate.



Cat.No.	Description	List Price
VL-1200	ViewOne LabLite Set Includes: ViewOne LabLite unit, viewing stand, 96-well template transparency	\$222.50
VL-1000	ViewOne LabLite	\$165.00
VL-1007	Universal Tilt Stand	\$ 87.95

LightOne™ Illuminator qRED



Ever suspect that ambient light may be compromising the sensitivity of your fluorescent dyes?

The LightOne qRED is a reliable light source and pipetting aid that helps you keep track of your progress as you pipette through a plate.

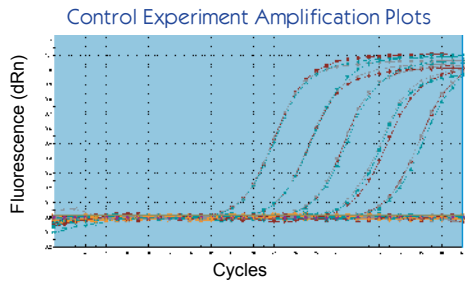
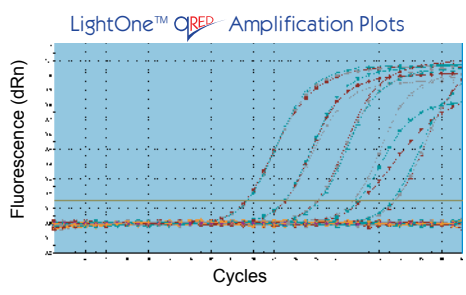
Designed for real-time PCR

For optimal results, you should head to an environment where your plate is not directly exposed to white light.

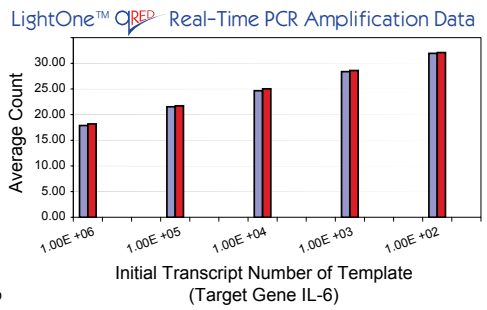
The red LEDs used in the qRED do not excite or bleach out the fluorescent dyes used in real-time PCR. Ensure the best results with the maximum sensitivity, consistency, and reproducibility.

Dim or turn off the light.

With the qRED, you'll still be pipetting with delight!



- Expt 1: PCR set up under 60W yellow light illumination and with the aid of LightOne qRED
- Control: PCR set up under 60W yellow light illumination



* Data from the laboratory of Dr. Lena Gerwick, Scripps Institution of Oceanography, UC San Diego

LightOne™ Illuminator FS for ELISA

ELISA kits are expensive - make sure you have error-proofed your plate.

Like a GPS for your 96-well plate – this pipette aid features 96 LEDs to guide you so you know exactly where you are and where you are pipetting next.



Cat.No.	Description	List Price
LI-1300	LightOne Illuminator qRED (red LEDs) Includes: LightOne Illuminator qRED unit, wired foot pedal, viewing stand, adapter frame	\$445.00
LI-1200	LightOne Illuminator FS, 100–240V (White LEDs) Includes: LightOne FS unit, wired foot pedal, viewing stand, adapter frame	\$555.00

LightOne™ Illuminator Pro



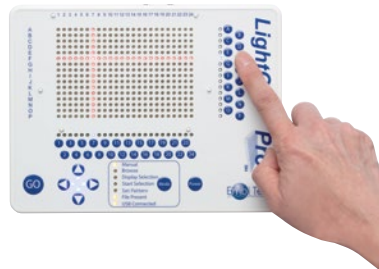
Pipette the right one
with the LightOne!



Picking the right sample shouldn't be a gamble.
Make sure you have error-proofed each and
every one of those 384-wells.

Pinpoint accuracy

Two sets of buttons along the sides of the plate allow you to punch in the exact coordinates and easily identify any well.



Maximum flexibility

Whether you are setting up a 96-well plate or a 384-well plate, using a single channel pipette or a multi-channel pipette, the LightOne Pro will accommodate your needs.



Easy file customization

Have a few simple templates you want to set up without having to consult your computer? Easily program your template with Set Pattern mode directly from your unit.



Program your templates with the press of a button - just punch in your coordinates and press GO to confirm! You'll be ready to pipette before you can say, "I hate the 384-well plate!"

Programmed,
loaded, and
ready to go
in minutes!

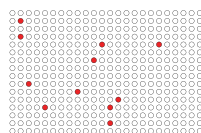
For more complicated templates or multiple plates, use the .csv converter included in USB drive.

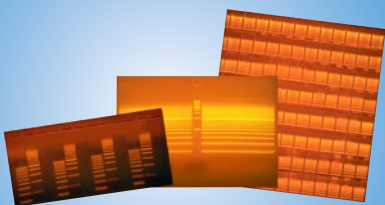
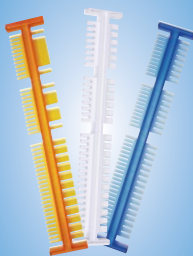
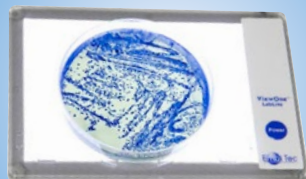
Plate	Well
1-4	B2
1-4	D2
1-4	F12
1-4	E19
1-4	G11
1-4	J3
1-4	K9
1-4	L14
1-4	M13
1-4	N5
1-4	O13



→
Convert

Plate 1-4





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