bioNova científica, s.l.

OMEGA LUM™ C

Quantitative Western Imaging

gel company

Simple User Interface

The touch screen provides a straightforward user interface for capturing images on the Omega Lum C.

1. Select an Application
2. Select an Exposure
3. Capture Your Image

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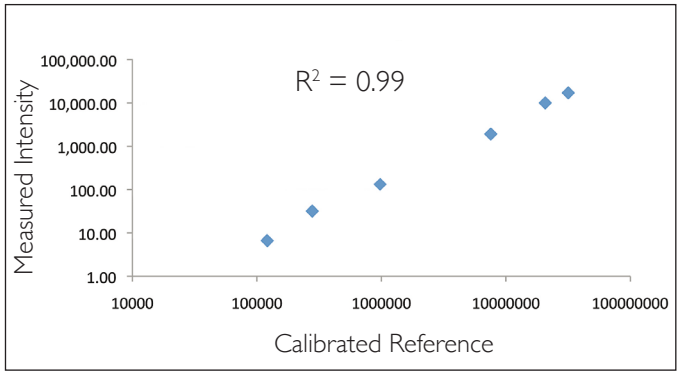
Quantitative Results

The Omega Lum C is optimized for superior detection of chemiluminescent Western blots. A wide dynamic range and fast imaging speeds mean that you will spend less time trying to get the perfect image.

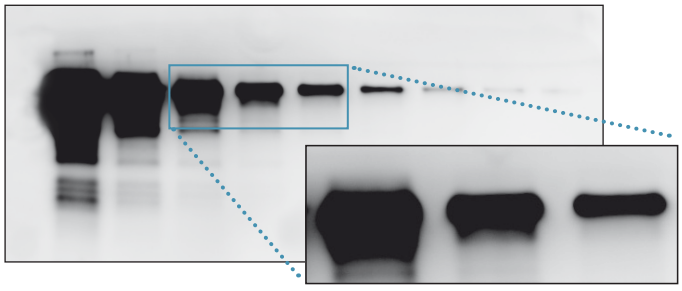
Dynamic Range



Evaluation of dynamic range. Detection of calibrated light source was imaged on the Omega Lum C. The results demonstrate a dynamic range of over three orders of magnitude.

Sample: Calibrated luminescent plate
Imaging Method: Chemi-HiRes
Dynamic Range: 3.4 orders of magnitude

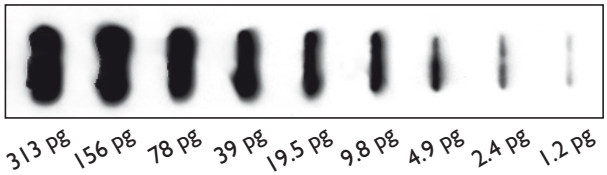
High Resolution



Over 8 megapixels of resolution provides you with sharp images for your publications or posters.

Sample: Purified transferrin
Membrane: PVDF
Primary antibody: Rabbit-anti-transferrin
Secondary antibody: Goat-anti-rabbit
Substrate: Advansta WesternBright™ Quantum
Imaging method: Chemi-Hi Res

Sensitive Detection



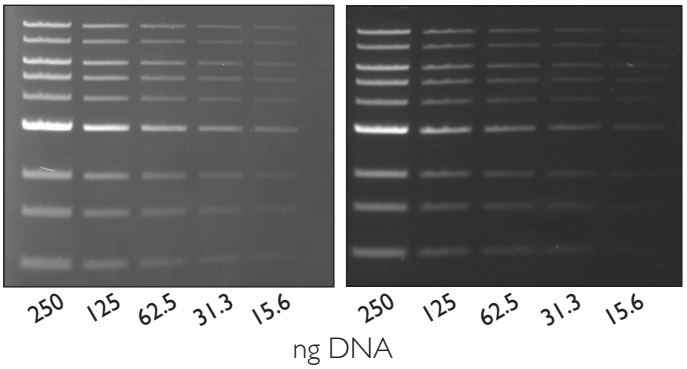
Industry-leading technology in the Omega Lum C provides the sensitivity, broad dynamic range and accuracy required for quantitative Western blotting.

Sample: Slot blot of secondary antibody
Membrane: Nitrocellulose
Antibody: Anti-rabbit-HRP
Imaging method: Chemi
Imaging time: 4 minutes

Application Flexibility

Multiple excitation sources allow you to visualize a wide range of gel stains, making the Omega Lum C a versatile imaging system.

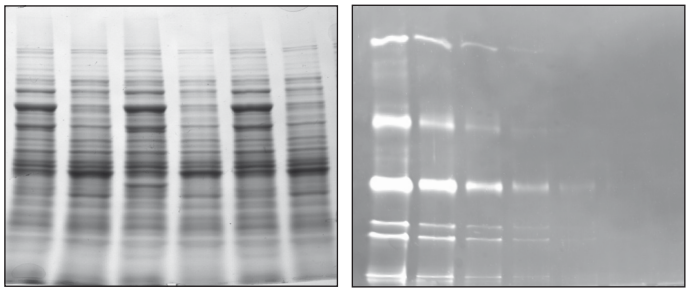
a. Ethidium Bromide b. SYBR® Safe



Ethidium bromide is a standard in the lab, but SYBR® Safe stain is specifically formulated to be a less hazardous alternative that can be imaged with blue-light instead of UV excitation.

Sample: Quick-Load® 1 kb DNA Ladder (NEB)
Gel: 1% agarose in TAE
Stain: a) Ethidium bromide, b) SYBR Safe
Imaging Application: a) EtBr, b) SYBR Safe

a. Coomassie Blue b. Fluorescent stain



Protein gels stained with a) Coomassie Blue and b) a fluorescent protein stain. The Omega Lum C captures high resolution images for documentation or publications.

Sample: a) Whole cell lysate, b) protein purification
Stain: a) Coomassie Blue, b) AdvanStain Scarlet™
Imaging Application: a) Coomassie blue, b) Custom

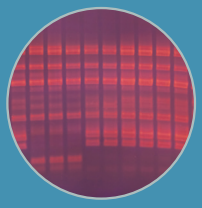
Image Gallery

When you are done imaging you can crop, contrast, and view the image intensity of your image right at the instrument. Save your results to a USB or to your network, and you are done!

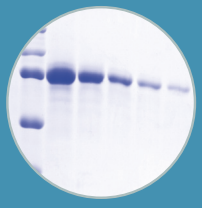
Get Started

APPLICATIONS

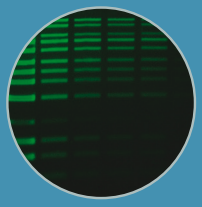
UV IMAGING
Quick imaging of samples excited by UV



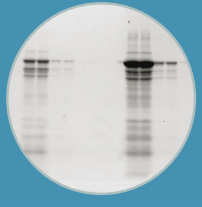
VISIBLE
Sharp images of Coomassie gels or other visible dyes

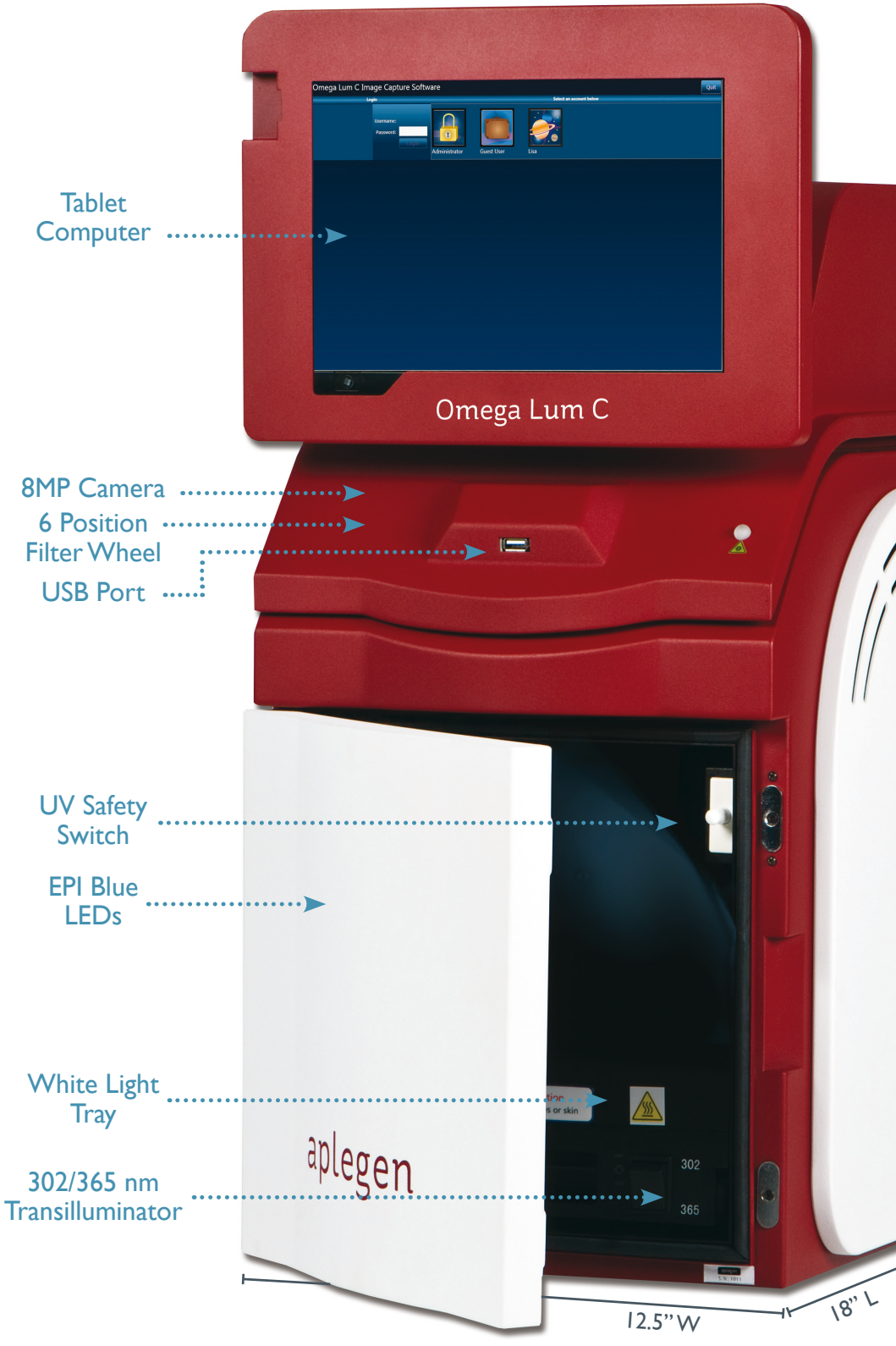


BLUE LIGHT IMAGING
View some fluorescent stains with less damage to DNA



CHEMILUMINESCENCE
Sensitive detection, fast imaging





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Ordering Information

PRODUCT NAME	DESCRIPTION	PART NUMBER
Omega Lum C Imaging System	8.4 MP, 16 bit, scientific grade CCD camera, Peltier cooling, -50°C controlled, F0.95 lens, 6 position motorized filter wheel, 302 & 365 nm transilluminator, EPI blue and EPI white lights, white light conversion screen, chemi tray, Orange filter, tablet computer, capture software and 3 licenses of analysis software	81-12110-00
Printer, P-95DW	USB Connected Thermal Printer	23-12021-00
Thermal Paper	High density paper, 4 rolls	26-12022-00
Clear Gel Tray (Small)	Small UV transmitting tray for gel handling. Dimensions: 19 X 17 cm	34-12018-00
Clear Gel Tray (Large)	Large UV transmitting tray for gel handling. Dimensions: 19 X 21.5 cm	34-12215-00

Distribuido por:
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Aplegen´s goal is quite simple: We are committed to developing the highest quality imaging systems in the world, and our vision is purely shaped by our customer´s needs and feedback. Aplegen is commited to working with you so you can get superior images with the best, most personalized service possible.

Specifications

Camera	• 8.4 MP for high resolution images • 16 bit scientific grade CCD camera for quantitative imaging • Peltier cooling, -50°C controlled for chemiluminescence imaging • USB connection for fast downloads • Fast refresh rate for live imaging • High quality images ideal for downstream analysis
Lens	F 0.95 Lens
Field of View	15 x 20 cm
Cabinet	• 302 & 365 nm pull out UV transilluminator • EPI white LEDs • EPI blue LEDs
Filter Wheel	6 Positions, motorized
Filters	Orange Filter (590 nm)
Applications	Chemiluminescent Western blots, fluorescent and visible gels, and SYBR® Safe dye imaging
Certifications	CE, cTUVus
Product Footprint	12.5" x 18" x 27.5" (31.75 x 45.72 x 69.85 cm)

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