

Affordable and Sensitive Chemiluminescent Imaging with the Azure 280



level
Discovering
new boundaries

進階生物科技股份有限公司

服務專線：0800-251302

 **azure**
biosystems

Reliable, reproducible imaging for Western blots and more

Azure Biosystems provides a unified Western Blot workflow, from the high-performance imaging system and analysis software to the reagents and consumables. Our imaging systems give you the flexibility you need for your research, while delivering solutions for quantitative Western blot imaging.



Each Azure 280 Imaging System provides:

- **Flexibility**—High sensitivity and performance for chemiluminescent imaging
- **Quantitative accuracy**—Designed for quantitation, our reagents, imaging system, and software work seamlessly together to help you follow best practices for Western blot publication
- **Intelligent workflow**—Our user interface allows total customization over imaging protocols, while ensuring repeatability from sample to sample. Our systems feature Auto-Focus, Auto-Light Control and Auto-Image Capture. Easily configure with external PC, if required.
- **Data integrity**—Azure Biosystems meets the standards for publication in all major journals, and additionally offers software to enable 21 CFR Part 11 Compliance

Chemiluminescent imaging

Just as sensitive as film, but easier and quantitative, our Azure Imaging Systems will revolutionize your chemiluminescent workflows and eliminate your darkroom.

QUANTITATIVE CHEMILUMINESCENT IMAGING

With Azure Imaging systems, the software notifies you when bands are saturated and are not suitable for quantitation.



Figure 1. Saturation detection prevents errors in quantitation. The same blot was imaged on both x-ray film and the Azure Imaging System. The Azure system detects when CCD saturation occurs and calculates an auto-exposure time to avoid saturated bands.

HIGH RESOLUTION IMAGING

A 6.1MP camera provides high resolution imaging perfect for publications. Change the sample to optics distance using adjustable height shelf for enhanced detection. Zoom into the area of interest with ROI imaging to reduce background.

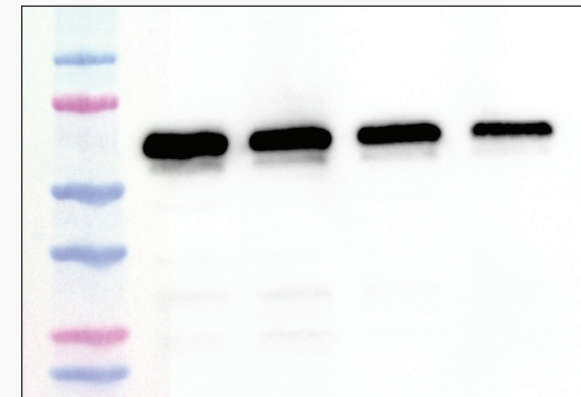
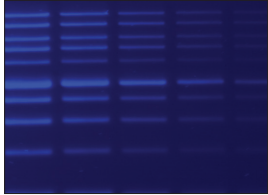
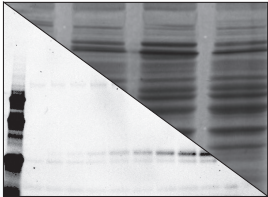


Figure 2. Chemiluminescent Western blot with MW Marker. 2-fold serial dilutions of HeLa lysate were separated by SDS-PAGE and transferred to a nitrocellulose membrane. The blot was blocked with Azure Chemi Blot Blocking Buffer prior to incubation with rabbit anti-hnRNP K primary antibodies. Signal was detected with Radiance ECL substrate.

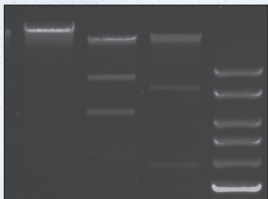
Versatile gel imaging



Blue Light Imaging
SYBR® Safe, SYBR® Gold,
SYBR® Green



White Light Imaging
Coomassie Blue,
Silver Stain



UV Imaging
Ethidium Bromide

“SAFE” DYE DETECTION

A less toxic alternative to ethidium bromide, less-harmful “Safe” dyes can be imaged with the EPI Blue LEDs standard in all the systems.

PROTEIN ANALYSIS

Protein gels stained with Coomassie blue or silver stain can easily be imaged using the white light tray.

DNA DETECTION WITH ETHIDIUM BROMIDE

With a dual-wavelength 302 nm and 365 nm UV transilluminator, images of ethidium bromide-stained DNA gels can be captured in a fraction of a second. A safety switch prevents accidental exposure to the light sources when the door is open. For band excision, the imager can be operated with the door open and the UV transilluminator can be pulled out. The switch can be overridden with a custom key.



Specifications

Camera

280
6.1 MP
16-bit, 65,536
grayscale

Peltier Cooling

-50°C
regulated cooling

7 Position Filter Wheel



UV 302 nm & 365 nm



Color Imaging/Visible Imaging



Chemiluminescence



Epi Blue Light Imaging



Field of View

20 x 15 cm

Footprint (W x H x D)

41 x 56 x 33 cm



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