# Azure Biosystems<sup>™</sup> c280

Powerful chemiluminescent imaging with a touch



### Smart Imaging Technology

### **No Focusing**

Regardless of the size of your gel, all images are in focus without adjusting the focus manually.

### No Positioning

Perfect images no matter where you place the sample in the imager.

### **Automatic Imaging**

Select the application, and the instrument will choose the light sources and filters for you.

# **Application Flexibility**



#### Chemiluminescence



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



White Light Imaging Coomassie Blue, Silver Stain

UV Imaging Ethidium Bromide

#### Picogram Detection of Proteins with Chemiluminescent Westerns

The Azure cSeries provides accurate and fast chemiluminescent detection, as well as the sensitivity, dynamic range, and linearity needed for quantitative blot analysis. Get the best picture every time, and stop wasting money on a darkroom.

#### "Safe" Dye Detection

An alternative to ethidium bromide, less-harmful 'Safe' dyes can be imaged with the EPI Blue LEDs standard in the system.

#### **Protein Analysis**

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



With a dual wavelength 302nm and 365nm UV transilluminator, images of ethidium bromidestained DNA gels or Stain-free gels can be captured. An interlock switch prevents the accidental exposure of UV.

# AzureSpot Analysis

With the c280, AzureSpot software provides tools for the analysis of gels and blots, AzureSpot makes complex analysis a simple process. Designed to be either fully automated or manually configured, AzureSpot provides flexibility and accuracy for your data analysis.

AzureSpot includes: Automatic PDF report generator, Lane creation, Background subtraction, Band detection, Molecular size/pl calibration, Quantity calibration toolbox, Module for easy shape selection/deselection, Wide range of data fields to display in measurements, Annotation tools for comments and highlighting of image.



### Tools for...

- Automatic Lane and Band Detection
- Molecular Weight Analysis
- ✓ Quantity Calibration
- ✓ Annotation
- ✓ Multiplex Analysis

### Remarkable Design



#### Visible Dye Imaging -

White light imaging source for colorimetric stains such as Coomassie blue or similar.

#### Dual-Wavelength UV

UV illumination with peaks at 302 and 365 nm. Compatible with a wide range of dyes including ethidium bromide, SYBR<sup>®</sup> green, SYBR gold, SYPRO<sup>®</sup> orange, fluorescein, RadiantRed<sup>®</sup>, Texas Red<sup>®</sup>, SYPRO Red.

### High Resolution Camera

Capture the finest details of your sample with 6 MP high resolution imaging.

#### Integrated Computer

Touch screen computer streamlines the image capture workflow.

#### Workflow Imaging

Software is driven by application protocols, which are recalled by a touch of a button.

#### **Multiple Filter Positions**

EtBr filter included.

#### Lens

Computer controlled, hands-free lens optics.

#### Light Tight Darkroom

Darkroom with automated software controls.

#### **EPI** White Lights

Provide overhead illumination for white light imaging.

# EPI Blue LED at 470 nm for Blue-Excited DNA Dyes

All systems come standard with excitation for dyes like SYBR® Safe, enabling the user to use dyes that are less harmful to the DNA sample, and to the environment.

### Connect to an external computer

Use a USB connector to connect the system to an external computer.

#### 2 USB Ports

Connect to a drive or network, or attach a thermal printer.

#### Safety Lock

Safety interlock to prevent accidental UV exposure.





## Simple Imaging Workflow

- 1. Select Light Source
- 2. Set Exposure Time or Autoexpose
- 3. Capture

#### **Band Excision Mode**

Easily excise your DNA bands from an agarose gel with our Band Excision mode. Designed to allow the user to cut bands out of their gel with the system door open, it also turns off the UV light after 5 minutes, ensuring the light is not accidentally left on.

#### **Specifications**

Catalog Number	AC2801
Automation Capabilities	
Workflow Imaging	Yes. Select application and imaging parameters are automatically adjusted.
Autofocus	Yes
Auto Exposure	Yes
Flat Fielding	Yes
Applications	
Blotting	Chemiluminescence, Chemifluorescence, X-ray films
Protein Gel Electrophoresis	Silver stain, Coomassie blue, etc.
Nucleic Acid Electrophoresis	EtBr, etc.
Fluorescence Detection	Cy2, GFP, FITC, etc.
Chemi Acquisition Modes	Cumulative for real time development, multiple for sequential acquisition

#### **Hardware Specifications** Camera 6.1 MP 16-bit CCD camera Cooling -50°C Marker Imaging Yes Filter Wheel Orange filter included (e.g. EtBr) **EPI** White Light Yes EPI Blue Light Yes Field of View 20 x 15 cm Computer 11.5" touch screen computer Dynamic Range >4 orders of magnitude Data Output 16 bit .tif or .jpg Footprint 15 x 12 in (38 x 30 cm) 1 license included Analysis Software



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