



TOUCH IMAGER

# The Next Generation of **Chemiluminescence** Imaging Technology

Lens-Free contact Western Blot  
imaging system with highest sensitivity and  
a 100× improvement in quantitative range.



reddot design award

Product brochure 2024

# Company Milestones

Founded in Zhangjiang, Shanghai, China, e-BLOT is a pioneer in lens-free contact chemiluminescence imaging technology. Renowned for innovation, e-BLOT has achieved multiple milestones and received prestigious awards.

## 2018

- Achieved technological breakthroughs and gained industry recognition.
- Received the Red Dot Design Award for the TOUCH IMAGER.

## 2017

- e-BLOT was founded.

## 2020

- Launched the TOUCH IMAGER for sale.
- Won the Magnolia Best Technological Innovation Award.

## 2022

- Expanded our customer base to 600+ across the USA, Russia, Switzerland, Sweden, Japan, South Korea, Singapore and China.





## 2023

Launched innovative Western Blot total solution.

## 2024

- Strategic framework cooperation with CST-Europe.

# The World's First Lens-Free Contact Western Blot Imaging System

-  **Ultra Sensitivity:** Delivers 100× greater sensitivity than traditional cooled CCD systems.
-  **Broader Quantitative Range:** Provides a 100× broader range than cooled CCDs.
-  **Rapid Imaging:** Completes 95% of imaging within one second.
-  **Compact and Portable:** A convenient turnkey solution for ease of use and portability.

Sensorchip area 158 cm<sup>2</sup>, 130 times more than cooled CCD

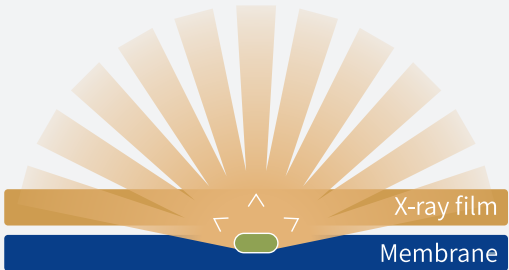
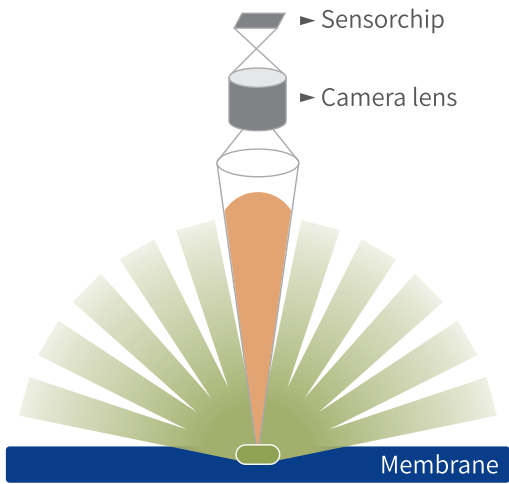
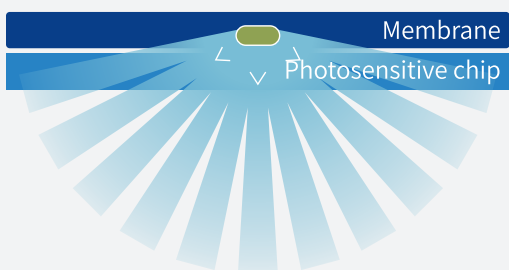


Imaging Methods	Sensorchip Area	Pixel Size	Loss of Signal
Cooled CCD	≈1.2 cm <sup>2</sup>	≈5 μm×5 μm	≈90%
TOUCH IMAGER	158 cm <sup>2</sup>	100 μm×100 μm	0

**Notes:**

The smaller the chip, the smaller the pixel.  
The angle and distance of the lens cause cooled CCD to lose about 90% of the signal.

# TOUCH IMAGER vs. Traditional Imaging Methods

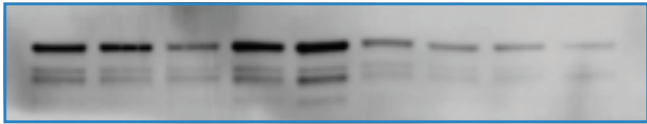
Imaging Methods	Advantages	Disadvantages
 <p>X-ray Film Imaging</p>	<ul style="list-style-type: none"> <li>● High sensitivity</li> <li>● High image quality</li> </ul>	<ul style="list-style-type: none"> <li>● Narrow quantitative range</li> <li>● Difficult to predict exposure time</li> <li>● Not suitable for digitization</li> <li>● Darkroom and additional consumables required</li> <li>● Complicated operations</li> </ul>
 <p>Cooled CCD Imaging</p>	<ul style="list-style-type: none"> <li>● Improved quantitative range</li> <li>● Digitized records</li> <li>● No darkroom required</li> </ul>	<ul style="list-style-type: none"> <li>● Limited sensitivity</li> <li>● Limited actual quantitative range</li> <li>● Long operation time</li> <li>● Large Instrument size, less portable</li> </ul>
 <p>TOUCH IMAGER Imaging</p>	<ul style="list-style-type: none"> <li>● Instant imaging with high sensitivity</li> <li>● High dynamic and actual quantitative range</li> <li>● Lens free, cooling free</li> </ul>	

# Capture the Unseen Proteins

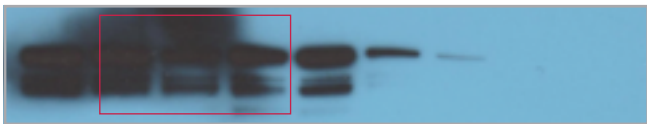
## TOUCH IMAGER VS. X-ray film

### Protein sample testing

TOUCH IMAGER 1 second exposure



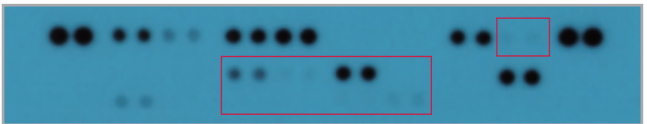
Optical film 60 seconds exposure



TOUCH IMAGER 9 seconds exposure



Optical film 900 seconds exposure

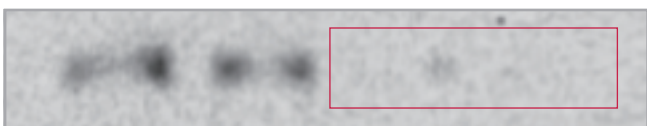


## TOUCH IMAGER VS. Cooled CCD

TOUCH IMAGER 2 seconds exposure



Other brand 120 seconds exposure



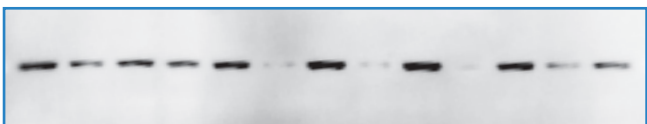
TOUCH IMAGER 2 seconds exposure



Other brand 60 seconds exposure



TOUCH IMAGER 1 second exposure



Other brand 100 seconds exposure



TOUCH IMAGER 1 second exposure

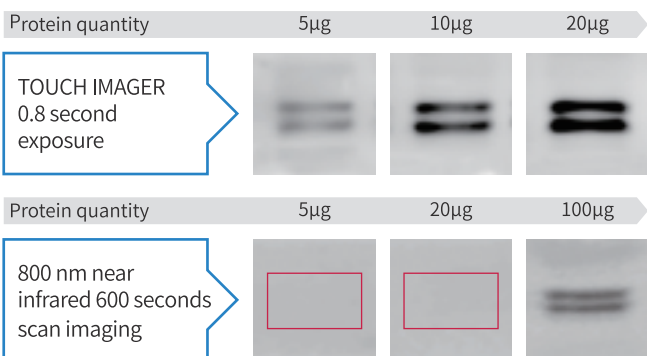


Other brand 60 seconds exposure



## TOUCH IMAGER VS. Fluorescence

### p-ERK protein detection



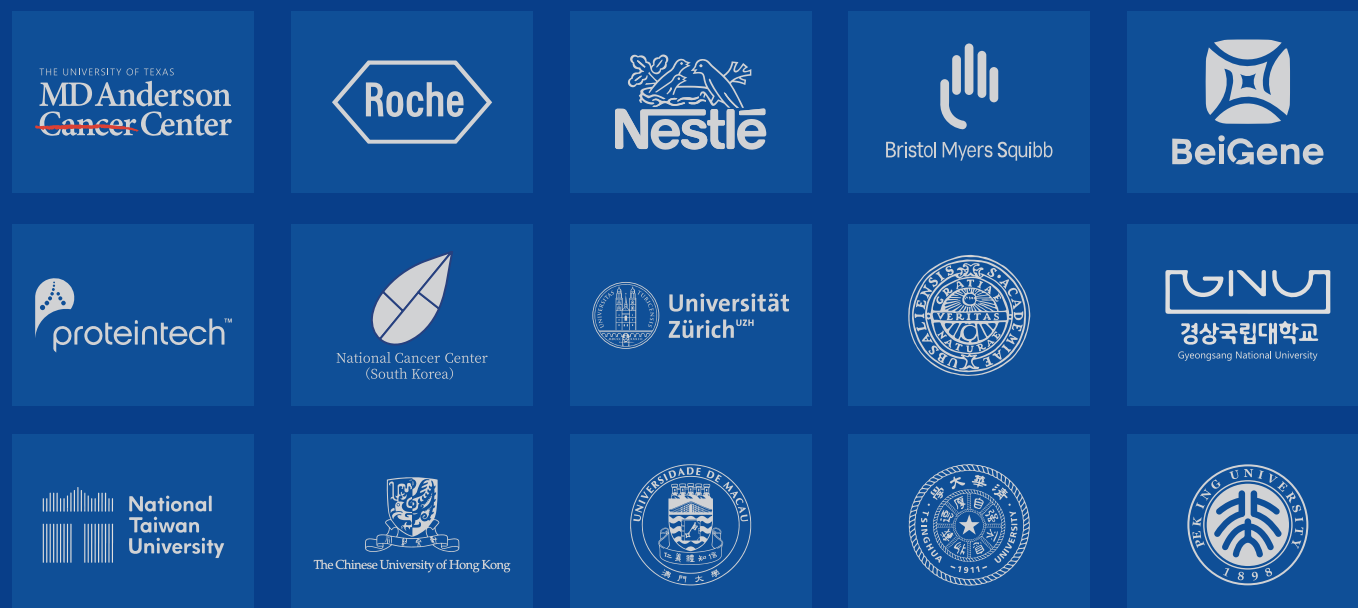
### Notes:

The images on this page are from real experiments conducted by users and are used with their permission.

However, due to client confidentiality, specific experimental details cannot be disclosed.

## Global Adoption and Published Research

With its outstanding performance in the field of Western Blot imaging, Touch Imager has become the choice of over 600 research institutions worldwide, helping researchers publish over 300 high scoring articles.



## Global Sales Network and After-sales Service Centers

Regions	Countries	Cities
Europe	Switzerland	Basel
	Germany	Karlsruhe / Hannover
	Sweden	Lund
	Belgium, the Netherlands, Luxembourg	Leiden
	Russia	Saint Petersburg
North America	USA	San Diego
Asia	Japan	Tokyo
	South Korea	Seoul
	Singapore	Singapore City
	China	Shanghai

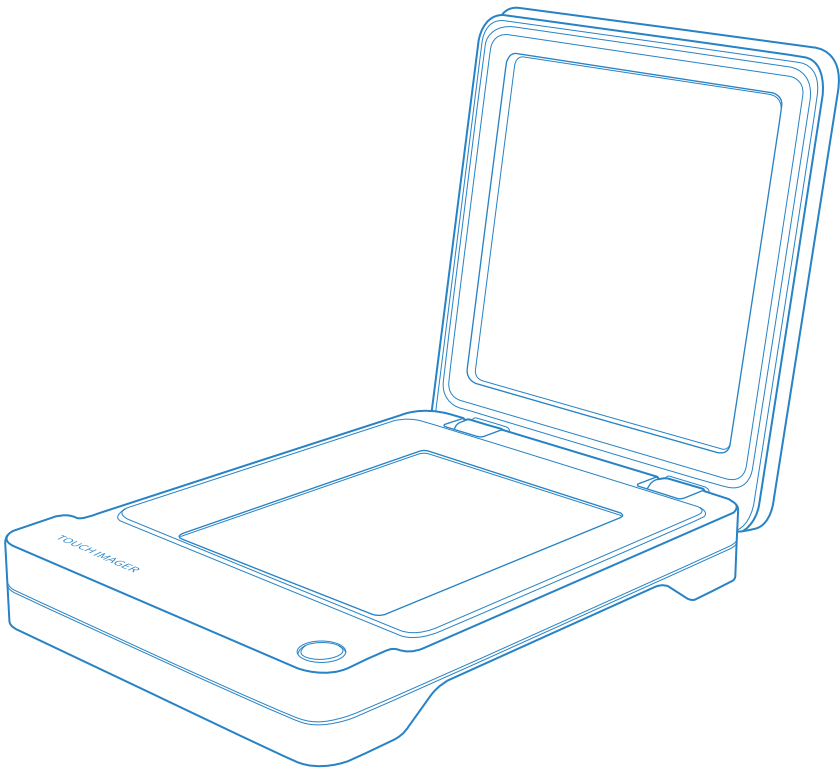
## Global Recognition and Certification:



In addition, e-BLOT has patents in 50+ countries and regions, including the USA, Canada, Europe, Japan, South Korea, China, India, Russia and Australia.



# Product Specifications

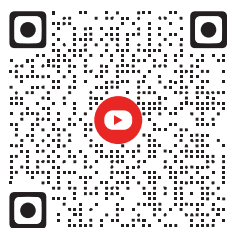


Capture Mode	Auto / Manual
Full Well Capacity	1, 250, 000 electrons
Data Transfer Speed	10, 000 Mbps
Light Sources Control	Chemiluminescence and Epi-white
Waiting Time	Turnkey system
Exposure Time	0.1 second to 600 seconds <sup>★</sup>
Photo Sensorchip Dimension	117 mm×137 mm (≈158 cm²)
User Management	Multi-user management
Net Weight	4.35 kg
Dimensions (L × W × H)	270 mm × 206 mm × 54 mm
Power Supply	100 ~ 250 V
Operating Temperature	4 ~ 30°C
Operating Humidity	10 ~ 85% relative humidity (non condensing)
Water-Resistant	IP55 equivalent

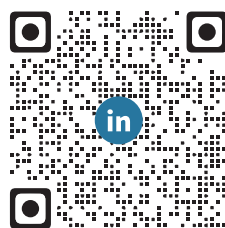
★ Over 95% of imaging is completed within 1 second.



e-BLOT Life Science (Shanghai) Co., Ltd.



Youtube



LinkedIn

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