Technical Specifications

Parameters	Description
Imaging Area Size	108mm*134mm (145 cm^2)
Photosensitive chip Area	140mm*120mm (168 cm^2)
Device Power	Powered by a DC12V adapter
Imaging Time	0.1 - 600 seconds. Common samples can be imaged within 1 second
Device Interface	USB3.0
Transfer Speed	Greater than 1000 Mbps
Sensitivity	At the pg level
Dimensions（W*D*H)	216*270*66 mm
Weight	3.25kg
Host Compatibility	Windows 10 and above, 64bit

Software Configuration	Description
Expose Mode	Automatic/Manual/Serial
Sensitivity Adjustment	Low Sensitivity/Standard/Long Exposure Mode in three levells
Imaging Mode	Color Marker Imaging
Imaging Algorithm	Self-developed image correction algorithm
Image Processing	Image cropping, rotation, inversion, contrast adjustmentt, etc.
Data Processing	High-precision intelligent band grayscale analysis
Image Output	Export in multiple resolutions: 300dpi, 600dpi, 1200dpi
Data Management	Multi-level account system automatically generates an irmage database
Other Features	3D image viewing, overexposure warning, etc.

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RWD

qTouch Pro
Western Blot Imager

One-Second Imaging • One-Click Analysis • One-Time Success

The RWD qTouch Pro Western Blot Imaging System is equipped with a large photosensitive chip featuring an effective imaging area of 168 cm^2 for lossless acquisition of chemiluminescence signals from Western Blot, Southern Blot and Northern Blot samples, and it supports color imaging of protein markers. The instrument boasts a wide dynamic range that enables simultaneous detection of bands with drastically different signal intensities, and imaging of routine samples can be completed within 1 second. The matched professional analysis software supports automatic and manual exposure modes and features grayscale analysis for WB bands, allowing simultaneous analysis and data export of up to 40 images. A built-in multi-user management system permits customized file storage paths to ensure secure data storage and convenient management. The compact unit occupies minimal space and facilitates transportation and placement in laboratories.

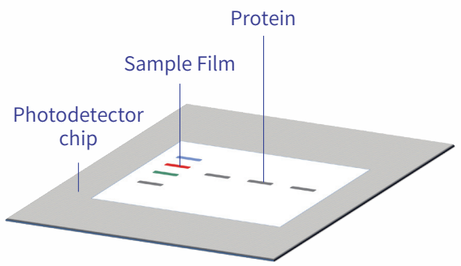
Application Scenario

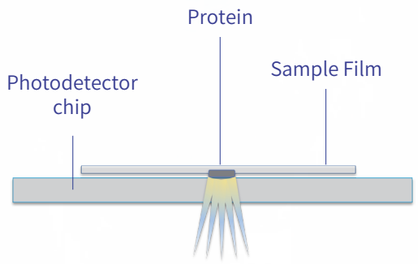
- Imaging and analysis of experimental samples including Western Blot, Southern Blot, Northern Blot and prestained SDS-PAGE protein gels.
- Detection of weak signals such as phosphorylated proteins and low-abundance proteins
- Meets high-throughput experimental requirements and accelerates research progress

Product Characteristics

One-Second Imaging

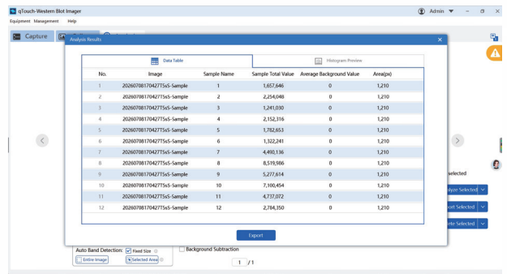
- Adopts CMOS ultra-high-sensitivity photosensitive chip with zero-distance direct contact imaging with sample membranes High-quality imaging of most samples within 1 second.
- Multiple exposure modes supported; data transmission speed over 1000 Mbps for instant image output
- No pre-cooling required, ready for immediate use upon power-on.

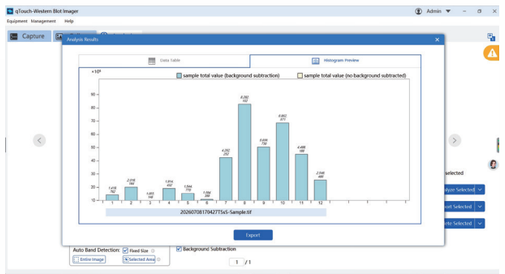




One-Click Analysis

- The device software is equipped with built-in image processing and analysis functions, enabling one-click band identification and background subtraction for rapid grayscale quantification of bands.
- The user-friendly software supports flexible image editing including cropping, rotation, inversion and contrast adjustment.
- Multi-dimensional visualization of grayscale analysis results is available, with one-click generation of bar charts, 3D maps and more.
- A multi-level account management system stores data separately by user accounts to guarantee data security.





One-Time Success

- Stable operation with lid-closing detection function to guarantee consistent imaging quality
- Three adjustable sensitivity gears to accommodate diverse samples
- Reduces light signal loss by over 99% to capture extremely faint protein signals
- Sensitivity and quantitative range enhanced by two orders of magnitude, paired with an extensive dynamic range for precise differentiation between strong and weak band signals