

Software

Setting

- Free zoom adjustment
- Auto focus/manual fine focus
- Multiple options of image resolution/frame rate
- Continuous/Interval/Fixed frame number collection modes
- Multiple trigger in/out modes for the communication with external device

Record

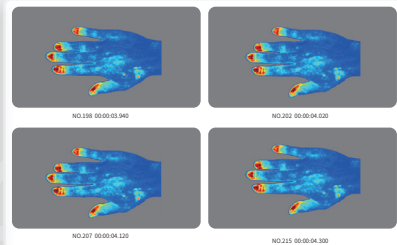
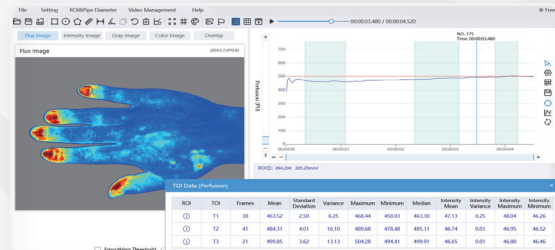
- Convenient data collection with easy operation
- Multiple kinds of ROIs for Draw/Copy/Delete/Edit
- Intuitive display of the real-time perfusion image/ graph
- Free scaling of X- and Y-axis in perfusion graph
- Event marker

Analysis

- Flux/Gray/Intensity/Color/Overlay image display
- Multicolor coding for flux images
- Background removal with adjustable threshold
- Image magnification by free selection
- Montage display and image comparisons
- Max/Min/Mean/SD statistic analysis of ROIs/TOIs
- 1~200 magnitudes for image smooth processing

Export

- Export single/all Flux and Gray images
- Export video with different play rate
- Export perfusion graph as .txt/.csv/.jpg format for convenient data analysis by other software



Simultaneous display of perfusion image/graph, and statistic analysis of ROI/TOI

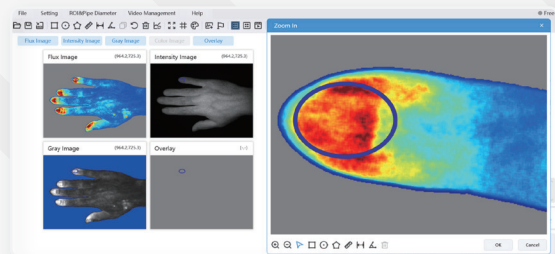


Image comparison from different time points

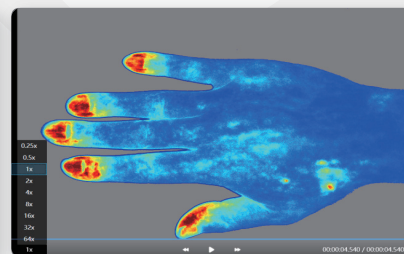


Image magnification by free selection

Video preview/export with selected play rate (0.25×-64×, all 9 kinds)

Customers



Publications



RWD Life Science Co.,Ltd

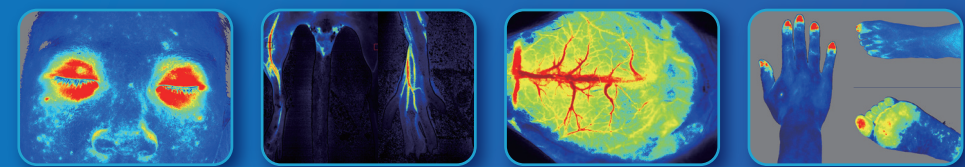
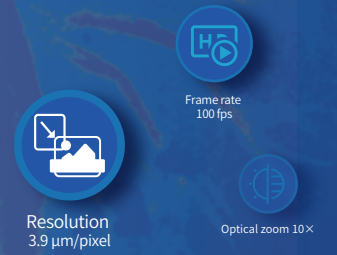
Add: 9/F, 19/F, 20/F, Building 7A, 9/F Building D, Shenzhen International Innovation Valley, XiLi Street, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China. E-mail: rwd@rwdstco.com

RWD Life Science Inc.

Add: 10410 Corporate Drive, Sugar Land, TX 77478, USA
Tel: (858)900-5879 Support: service@rwdls.com
Web: www.rwdstco.com

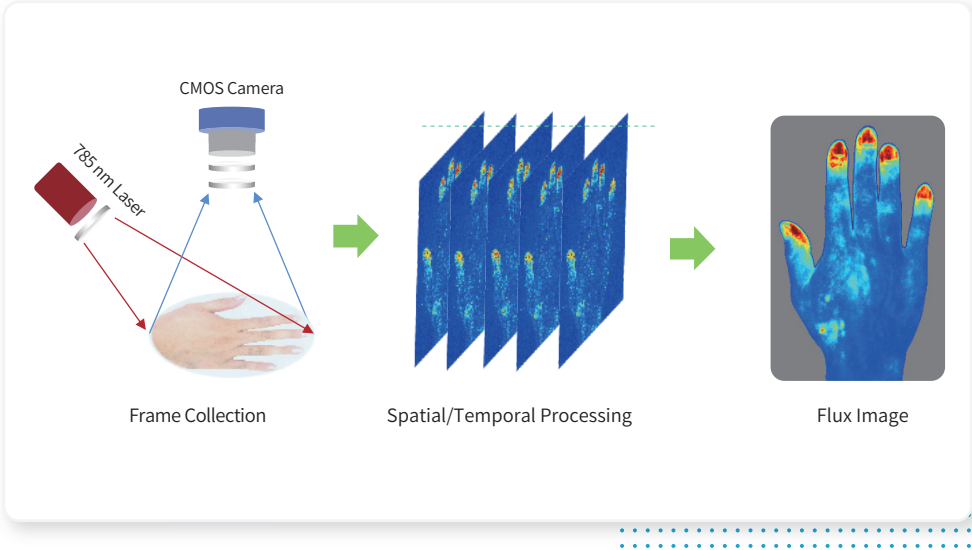
RWD

Laser Speckle Imaging System



Laser Speckle Imaging System

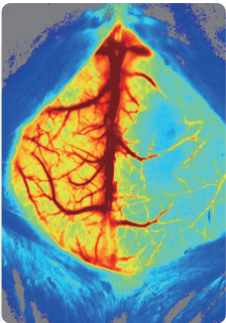
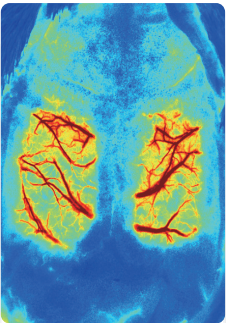
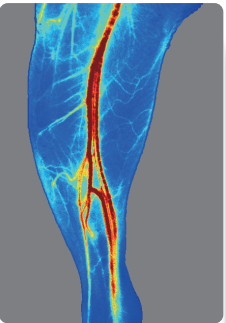
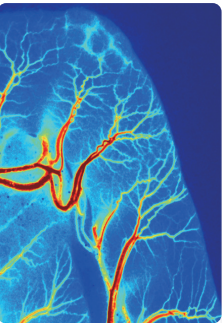
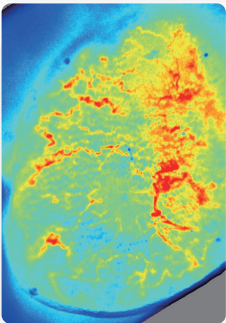
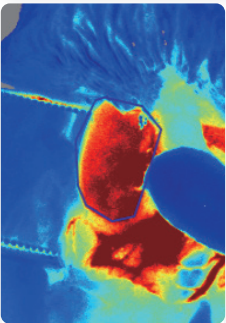
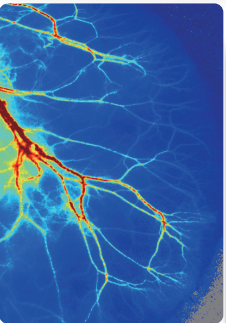
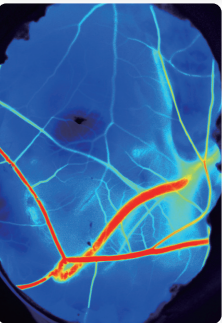
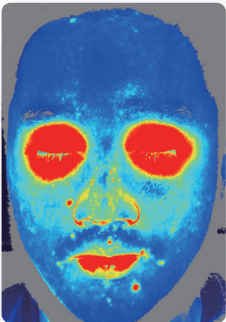
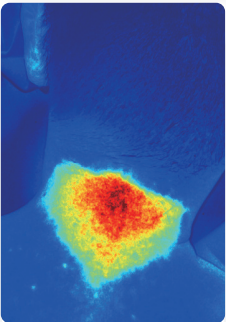
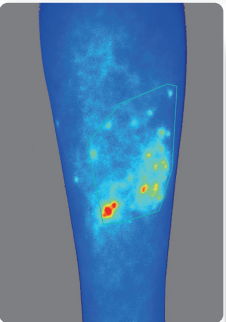
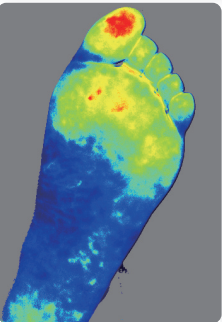
Laser speckle imaging system is an even better tool for microcirculation research based on laser speckle contrast imaging technology (LSCI). With the advanced optical design and improved image processing algorithm, it shows greater performance in imaging field size, image quality, full-field frame rate and optical resolution, and provides a powerful and efficient means for tissue microcirculation measurement.



Product Features

- Ⓡ Non-contact, non-contrast agent depending measurement
- Ⓡ Best optical resolution of 3.9 μm/pixel, providing more detailed tissue structures
- Ⓡ Max frame rate (full field) up to 100 fps, acquiring real-time changes in larger areas
- Ⓡ Image size ranges from 0.57×0.75 to 22.5×30 cm² in all-in-one imager, covering multiple research applications
- Ⓡ Fast auto and fine manual focus, improving focus efficiency and accuracy on various tissues
- Ⓡ Optimal lens assembly, filtering the ambient and reflecting light
- Ⓡ Class 1 of measurement and indicating lasers, safe to use without eye protection
- Ⓡ System calibration with Calibration Box
- Ⓡ Trigger In/Out BNC connections for communication with external devices
- Ⓡ Unlimited installation of analysis software in PC

Applications

 MCAO Model	 CBF Monitoring	 Hind limb Ischemia	 Septic Shock
 Tumor Angiogenesis	 Kidney blood Flow Monitoring	 Thrombus	 Chicken Chorioallantoic Membrane Assay
 Skin allergies	 Laser Therapy	 Eczema	 Diabetic Foot

Technical Parameters

Product Model	LSCI ZW	LSCI HR (upgradable)
Image Size	0.57×0.75-22.5×30cm²	0.57×0.75-3.8×5.0 cm²
Working Distance	10-40 cm, continuous	10-25 cm, continuous
Max Frame Rate	100 fps (full field)	50 fps (full field)
Zoom	10×	3×
Resolution	Max Camera Resolution : 2064x1544 pixels Best Resolution : 3.9 um/pixel	
Image	Flux/Gray/Intensity/Color/Overlay	
Measurement Laser	785 nm, Class1	
Indicating Laser	650 nm×2, Class 1	
Focus	Auto/Manual (fine focus)	
Trigger	2 XBNC	
System Calibration	Calibration Box	
Software	Acquisition Software and Analysis Software	

