

FluxEXPLORER™

Microvascular imaging

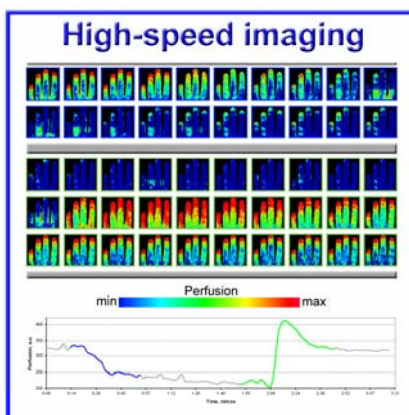


www.fluxexplorer.com

FluxEXPLORER© system is developed on the basis of the latest progress in CMOS image sensor technology that enabled combining Laser Speckle and Laser Doppler imaging approaches. Combining the two imaging techniques has allowed us to literally revolutionize the imaging system performance. Underlying technology allows visualizing the superficial blood flow in biological tissue at depth of up to 1 mm. FluxEXPLORER© system generates high-resolution flow images in real-time in non-invasive and non-contact manner.

ADVANCED MICROVASCULAR DIAGNOSIS THROUGH IMAGING

FluxEXPLORER© is a new medical diagnostic system for real-time imaging of blood microcirculation in biological tissues.

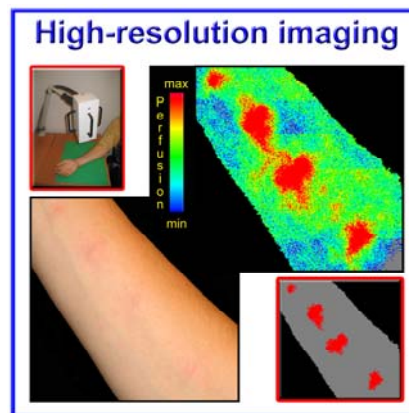


Peripheral vascular disorders

Goal: Monitoring microvascular response in tissue caused by an applied physiological provocation.

Why: Haemodynamic reactions to acute coronary occlusion of diabetic patients can be an indicator of early stage peripheral neuropathy.

Benefit: Measuring Doppler signal from thousands of points simultaneously allows generating microcirculation images in real time.



Dermatology

Goal: Characterization of irritated and inflamed skin.

Why: User-independent assessment of the blood flow variations caused by allergens.

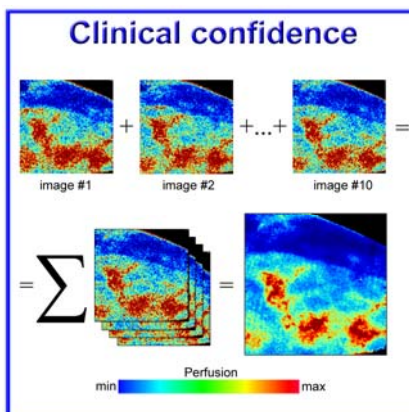
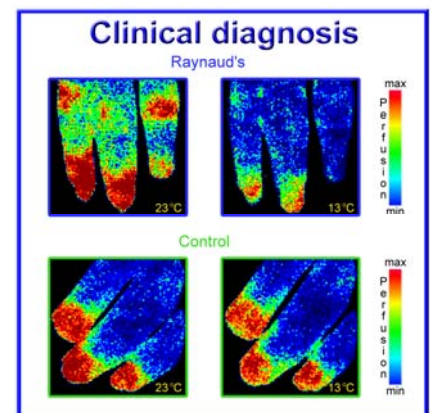
Benefit: High-resolution flow maps allow quantitative characterization of skin microcirculation.

Rheumatology

Goal: Detecting the vasospasm of Raynaud's phenomenon following a cold water provocation.

Why: Allows monitoring the therapeutic efficacy of different pharmaceutical substances.

Benefit: Easy tool for accurate and patient friendly clinical diagnosis.



Plastic and reconstructive surgery

Goal: Recording perfusion image of the flap/graft in pre- intra- and post-operative phases provides valuable information about the microvascular condition.

Why: Perfusion monitoring gives information regarding possible malfunction in the blood supply to the flap/graft.

Benefit: Statistical Image Enhancement technology provides high measurement accuracy resulting in high-resolution flow-images reach of fine details.

FluxEXPLORER Team aims at development and marketing of the new medical imaging technology. We offer our product and expertise to R&D laboratories active in microvascular diagnosis and investigation.