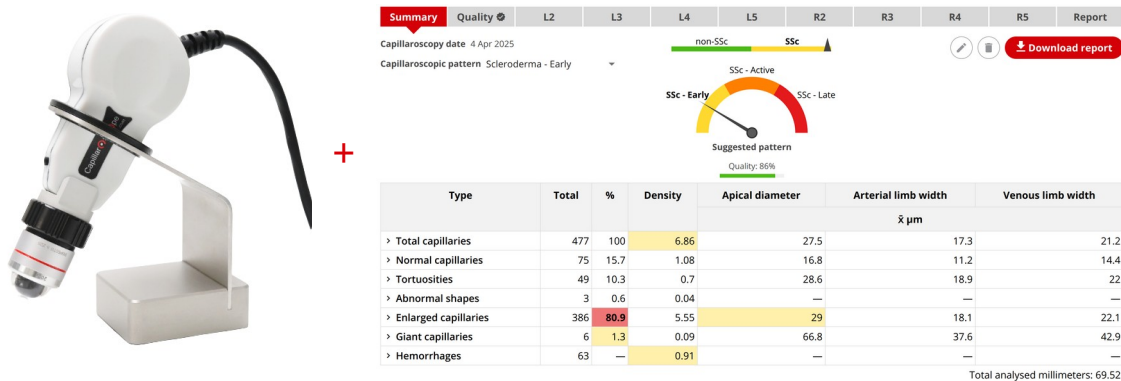


PRODUCT BROCHURE / RESEARCH EDITION

Capillary.io Research System

A complete capillaroscope and Desktop software package

Professional Inspectis optics and Capillary.io Desktop Research, selected and checked together by our medical and technical team. Capture, analyze and report locally.



Inspectis Digital Capillaroscope with 200× optics and the complete Desktop Research software.

Native capture	Dedicated optics	Included software
60 fps at 2000 × 1500	200× capillaroscopy	Complete local Desktop Research

Selected to work together

State-of-the-art capillaroscopy optics, acquisition accessories and all Desktop features form one compatible package. We check hardware, calibration, capture and analysis together.

Our team combines regular capillaroscopy practice, medical expertise and extensive testing of capillaroscopes.

Ready for your preferred setup

Use your compatible computer or choose an optional laptop with the software and drivers installed and checked before delivery.

Use the supplied Desktop version without limits or a Cloud account. Optional Cloud access can be included for online collaboration.

Desktop is the included software. Cloud is optional.

Inspectis Digital Capillaroscope

A smooth live view and dedicated nailfold optics help you position the instrument and inspect fine capillary structures.

Specification	Included configuration
Current unit	G2, released in 2026
Native resolution	2000 × 1500 pixels · 3.0 MP
Frame rate	60 fps at native resolution
Optics and illumination	200× capillaroscopy lens with integrated illumination
Calibrated pixel size	0.8675 µm/pixel at 200× in 2000 × 1500 images
Computer connection	USB 3.0
Capture accessories	Holder, foot switch, connection accessories and starter immersion oil

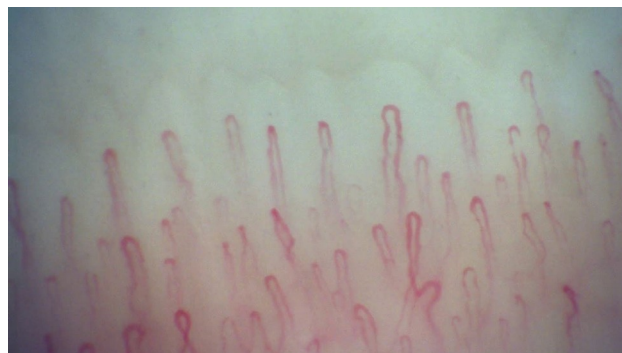
Designed for detailed imaging

The 60 fps live view helps you follow movement and adjust positioning. Dedicated optics reveal fine nailfold detail for capture and subsequent quantitative review.

Checked as a complete setup

Our medical and technical team selects and tests the combination of capillaroscope, calibration and software. You receive the essential components for the agreed configuration.

See the capillary detail



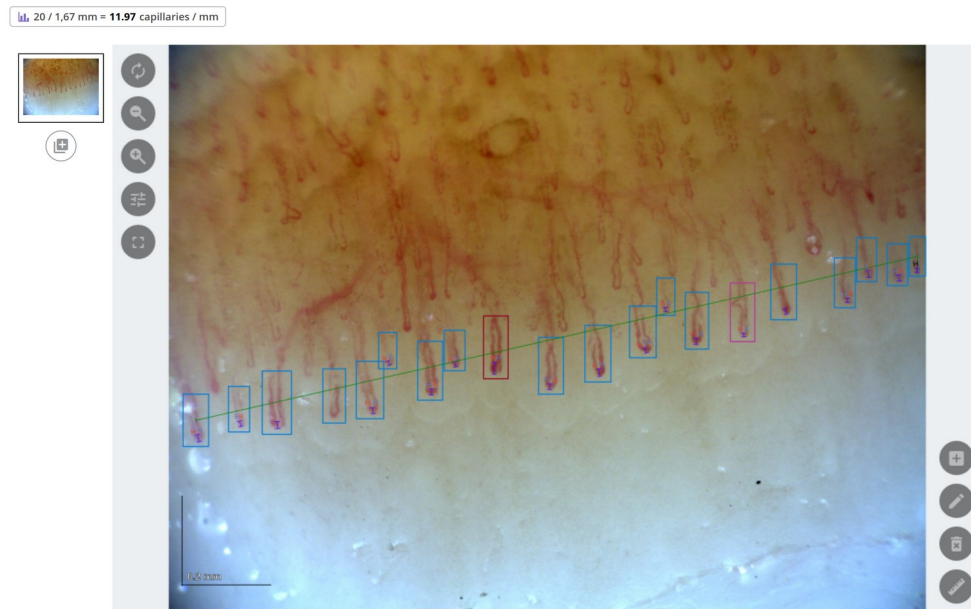
Example acquired with Inspectis. Preparation and acquisition technique also affect image quality.

The calibrated pixel size links image dimensions to physical measurements at the supplied magnification.

03 / INCLUDED SOFTWARE FEATURES

Complete local image analysis

All Desktop Research features are included. Review quantitative findings against the source images and keep the complete study on your computer.



Automated findings remain connected to the images for expert review.

Included feature	What you can do
Quantitative measurements	Review counts, density, apical diameters and limb widths
Morphology and patterns	Explore capillary shapes, giant capillaries, hemorrhages and CAPI-DETECT pattern analysis
Image quality assessment	Check blur, reflections, brightness and calibration; choose images for statistics
Expert review tools	Refine annotations, use display filters and retain comments and change history

Keep control of the review

Inspect automated detections, correct annotations and examine low-contrast areas. Your observations stay connected to the original image.

Keep studies organized

Preserve finger, sector and calibration information. Combine images into study summaries, reports and searchable local projects.

04 / SEARCH EXPORT AND REPORTING

Turn studies into usable data

Find the studies you need, export their measurements and prepare clear reports with the original images close at hand.

Search & export combines study filters, quantitative findings and custom report fields.

Build a focused dataset

Combine projects, demographics, dates, patterns and capillary findings. Search custom report fields with text, ranges, yes or no values and selected options.

Export option	Your choice
File format	XLSX or CSV
Row structure	Per study or per image
Custom fields	Include report data
Image selection	Include or exclude images omitted from statistics

Prepare measurements for statistical analysis without manually copying values from individual reports.

Create structured reports

Combine study information, findings and selected images. Customize templates and produce editable Word documents or printable PDFs.

ERI 2019-05-11 - Saturday, May 11, 2019 4:28 PM

Personal information
 Birth date: December 6, 1989 Sex: Man Race: Caucasian
 Patient consent: Yes

Medical antecedents
 Presenting problem: Raynaud Syndrome: No
 Digital ulcers: Never

Clinical diagnosis:

Capillaroscopy report
 Visibility: Good
 Capillary flux: Normal
 Vascular pattern: Visible

Used system: Dino Lite

Capillary density		Total	%	Quant. / mm	Apex width (x)	Arterial limb width (y)	Venous limb width (z)
Total capillaries	72	100.0	8.2	17.0µm	11.9µm	14.3µm	
Normal capillaries	52	72.2	5.9	15.0µm	10.5µm	13.3µm	
Tortuosity	0	0.0	0.0	---	---	---	
Ramifications	1	1.4	0.1	---	---	---	
Enlarged capillaries	19	26.4	2.2	22.0µm	16.1µm	17.4µm	
Megacapillaries	0	0.0	0.0	---	---	---	
Hemorrhages	4	5.6	0.5	---	---	---	

Total analysed millimeters: 8.79

Pattern: Normal

A report connects quantitative findings with the images behind them.

Research behind the software

Peer-reviewed studies evaluate the analysis methods behind Capillary.io, from capillary findings to quantitative pattern assessment.

Study	Data evaluated	Reported finding
CAPI-DETECT 2025 [1]	1,780 capillaroscopies; 1,490 with observer consensus	91.2% accuracy for SSc versus non-SSc patterns in the validation set combining partial and full consensus
CAPI-Score 2024 [2]	851 capillaroscopies; 21,957 images	88% accuracy for the quantitative SSc versus non-SSc rule
External validation 2023 [3]	1,164 nailfold images; five trained experts	75.8% agreement with predictions at ≥ 3 -expert consensus; 87.1% at ≥ 4 -expert consensus

Quantitative pattern analysis

CAPI-DETECT assesses patterns using quantitative image features. Its 2025 study considered 24 variables; performance varied by classification task and consensus subset.

CAPI-Score uses density and proportions of abnormal and giant capillaries, tortuosities and hemorrhages.

Developed by capillaroscopy specialists



Dr Borja Gracia Tello

MD, PhD · Co-founder
Internist and Professor of Medicine at the University of Zaragoza. Brings regular capillaroscopy practice and microvascular research expertise.

Both founders are co-authors of the studies above.

[1] Lledó-Ibáñez et al. *Rheumatology* 2025;64:3667–3675

[2] Gracia Tello et al. *Rheumatology* 2024;63:3315–3321

[3] Gracia Tello et al. *Clinical and Experimental Rheumatology* 2023;41:1605–1611

Evidence in context

Results apply to the algorithms, datasets and conditions in each study. They do not establish performance for every use or certify the current product.

Expert review of source images and automated findings remains essential.



Eduardo Ramos Ibáñez

Co-founder and CTO
Software engineer specialized in machine learning and deep learning. Leads software development and AI alongside medical experts.

[Explore all publications](#) [Meet the team](#)

A system ready for your team

Choose an optional laptop with Desktop Research, capture software and drivers installed. We configure and check it with your capillaroscope before delivery.



Optional laptop setup. This manufacturer photograph shows Inspectis capture software.

Package component	What you receive
Included hardware	Inspectis Digital Capillaroscope, 200× optics, holder, foot switch, connections and starter oil
Included software	All Desktop Research features with unlimited local use of the supplied version
Computer	Your confirmed-compatible computer or an optional pre-installed laptop
Optional Cloud	Online access, shared projects and collaboration; terms defined in your quote

Everything for the agreed setup

Once the computer option is confirmed, no extra equipment is needed for that configuration. Desktop requires no Cloud account, image upload or per-analysis Cloud credits.

Your quote itemizes equipment, license terms, installation, updates, support, delivery and applicable taxes.

Request a tailored quote

Tell us about your institution, capillaroscope or computer, and any Cloud, training or support needs.

info@capillary.io

Plan your Research System

CAPILLARY IO SL · capillary.io

Current availability

The supplied software is for Research Use Only, not clinical diagnosis or patient management. Clinical editions of Cloud and Desktop are in development under the EU MDR, subject to completion of the required conformity assessment. Availability and upgrade terms will be specified in the written offer.