

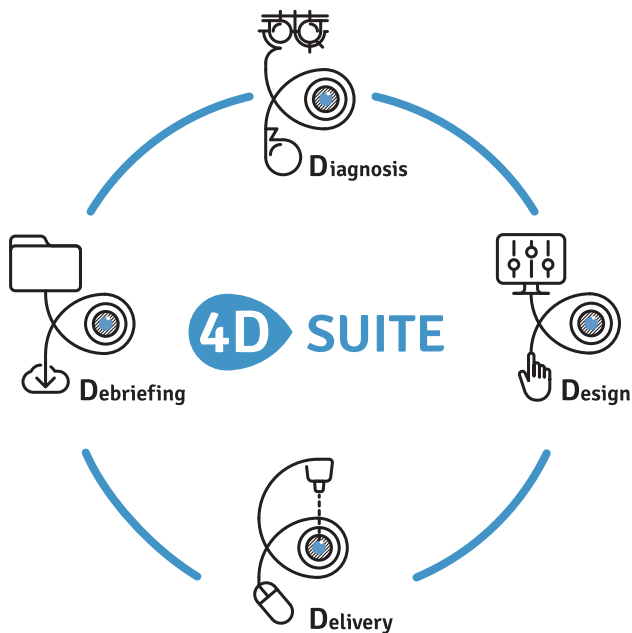


Precisio

True registered epithelial maps

Technical Specification

- Weight: 135 kg
- Power requirements:
110 ÷ 240Vac, 50-60Hz, 0.9A
- Dimensions:
590mm x 485mm x 1565mm (LxWxH)



iVIS
LIVE YOUR VISION

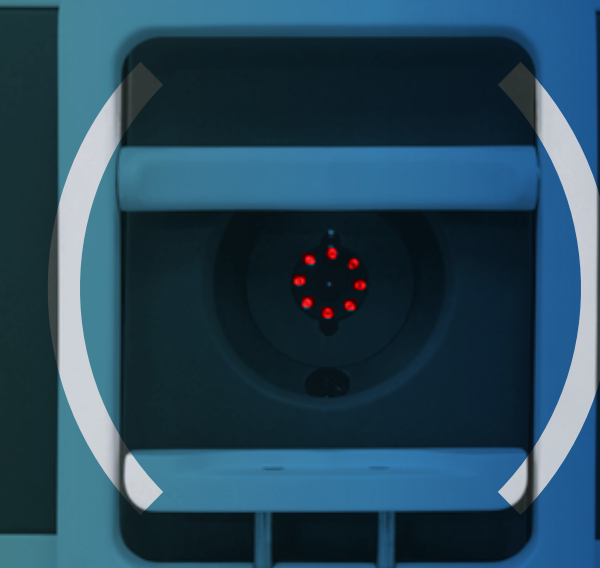
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HFE001 Rev3

iVIS
LIVE YOUR VISION



Precisio

The unique tomographer
for custom vision surgery

CE 0123

4D SUITE



Diagnosis.

Key Features

Fully automated acquisition, touch screen driven;
Voice guided patient auto-positioning;
3D eye-tracker synchronized with data system detection;
Blue scanning laser micro-slit;
Epithelial spatially registered maps;
Ergonomic design;
Intuitive software interface;
Big data web based statistical analysis for custom vision surgery.



Clinical Application

Custom corneal refractive and therapeutic surgery;
Morphological and refractive analysis of the anterior segment of the eye;
Diagnostic analysis and clinical follow up of corneal pathologies;
Surgical outcomes and surgical follow up for corneal refractive and therapeutic procedures.

Technology

Synchronous stereo high resolution CMOS tandem cameras granting:

- Acquisition of over 120.000 data point per each detected surface;
- High speed fully automated acquisition of 60 images in one second;
- 3D synchronous tracking of all six spatial degrees of freedom;
- Certified repeatability of the acquired maps;
- Ocular features mapping for 3D intra-operative registration;

Ultrathin blue laser slit for high resolution images;
Optical stop-passing filters to remove parasite lights;
Automated voice guided system of patient positioning and acquisition;
3D motorized chin rest;
Touch screen monitor and intuitive user interface;
Realtime exams backup.

Exam Outputs

Elevation maps:
anterior, stromal and posterior;

Thickness map:
epithelium, stromal and total;

Anterior chamber depth and iris maps;

Ray tracing refractive map:
anterior, stromal, posterior and total;

Axial refractive map:
anterior, stromal, posterior and total;

Tangential refractive map:
anterior, stromal, posterior and total;

Mean power refractive maps:
anterior, stromal, posterior and total;

Refractive aconic fitting:
anterior, stromal, posterior and total;

Corneal morphological repeatability analysis:
anterior, posterior and total;

Corneal refractive repeatability analysis:
anterior, posterior and total;

6 degrees of freedom eye tracker display;
Horizontal and vertical angle K;
Fixation score;
Measuring tool;
Medical record;
Custom maps display;
Relevant data point display;
Diagnostic analysis and clinical follow-up;
Surgical outcomes and surgical follow-up.

