Diagnosis of inflammations of the paranasal sinuses by infrared radiation (EFRE funding)

Imaging techniques are important for the diagnosis of inflammations of paranasal sinuses and an appropriate therapy. Often complementary techniques are use for a reliable diagnosis simultaneously. Neither CT nor ultrasound can detect the progress of the inflammation. New light sources and methods of image processing will improve infrared diaphonoscopy is an additional technique for diagnosis.

Inflammations of paranasal sinuses

Ergonomic handling under day light is important goals beside the development of a software diagnosis assistant. The superposition of a standard image from healthy person with the live image of the patient enables the specialist to evaluate the inflammation (for example left/right symmetry). Furthermore, diagnosis assistant saves pictures enabling to compare the actual recording with former ones for a follow-up.

Our cooperating specialist is Mrs. PD Dr. M. Hopf (http://www.villa-dahlem.de/).