

**EP 23276 ACOHIR**

**ACCURATE COLOUR HIGH RESOLUTION RECORDING AND REPRODUCTION  
OF 3D OBJECTS FOR ELECTRONIC PUBLISHING AND THE CONSUMER MARKET**

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**Project Report and Status**

**Abstract**

The purpose of the project is to construct a modular system for acquiring and presenting 2D images from 3D objects at accurate colour and resolution dependent on the capturing device. The system is designed for acquisition, processing and display of colour corrected images of 3D objects. It comprises of three basic modules: the acquisition module, the editing module and the viewing module.

The ACOHIR system is a modular system allowing capturing, correction, editing, storage and display of colour calibrated images from 3D objects. The system modularity will allow the user to upgrade each module, depending on technology advances. Although each commercial system will require a specific configuration, it is expected that alternative hardware selection will be available for each module.

Working under windows NT, the system will offer an integrated approach to capturing, processing and storing of digital images of 3D objects with full control over lighting and colour. Benefits for the user will be to have control over the whole chain from capturing to display. The system will be also able to provide records of multiple views of 3D objects that will be valid in future systems without the need of further digitisation.

Initially identified target markets are museums, industries, catalogue builders (electronic and paper), education as well as auction houses, insurance companies and photographic studios.

ACOHIR is funded by the European Community under the number EP 23276.