





Ultrafast and medium resolution 3D facial scanner for aesthetic and maxillofacial applications

DESCRIPTION OF THE TECHNOLOGY

Characteristics

The facial surface scanner is an affordable tool to capture 3D face geometry based on:

- Passive stereo photogrammetry (use photos taken with low cost devices).
- The use of homologous models to correct errors of scanning and to complete hidden zones. ADVANTAGES / BENEFITS:
- Obtaining the facial surface in high resolution.
- Capture in two milliseconds and processed in less than 30 seconds.
- Reduced margin of error in measurements, less than 1 mm.
- More realistic reconstruction of 3D surfaces, regardless of lighting.
- Easy to use, it does not require expert personnel for the calibration that is performed in

4 min.

- Effectiveness and evolution of treatments. It provides the patient with a better understanding, security and satisfaction about the service provided.

- Allows a complete customization of facial products from the geometry obtained from the face.

MARKET APPLICATION SECTORS

- Medicine: Oral and Maxillofacial Surgery, Plastic, aesthetic and restorative surgery. Medical-surgical dermatology (including also cosmetic dermatology).

- Manufacturers of products in contact with the face and susceptible to personalization: masks, glasses frames, etc.

- Other markets where facial recognition is important.
- Leisure and network market; To generate 3D avatars.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

- Capture time: 2ms.
- Processing Time: 30s.
- Independent of external lights.
- Low cost for high resolutions.

CURRENT STATE OF DEVELOPMENT

Functional prototype, suitable for use and testing with users. TRL 8.

INTELLECTUAL PROPERTY RIGHTS

100% IBV property.

COLABORATION SOUGHT

Companies interested in the following systems of cooperation:







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- Agreement about license to implementation and to use of technology.
-) Agreement about Research & Development for implementing and qualifying the product and the manufacturing method depending on the application.

RELATED IMAGES





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