

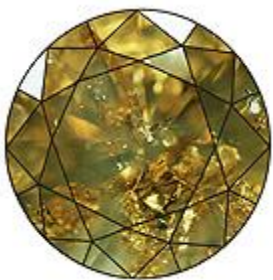
ALL PHOTOREALISTIC IMAGES HERE ARE MODELLING BY 3D BOOK

- ▶ 3D Book is intended to be used by the diamond graders and appraisers, gemological laboratories and institutes, diamonds and diamond jewellery manufactures and for the diamond and jewellery trade as well.

3D Book consists of three sections halting by hypertext:

1. Identification, grading, appraisal of loose and mounted diamonds manual.
2. Photo-Library of different stones and their characteristics.
3. Interactive training for various diamond simulators

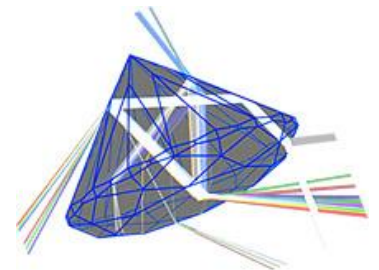
COMBINATION OF THESE SECTIONS REPRESENTS 3D-GOOK AS A UNIQUE TRAINING AND REFERENCE BOOK



- ▶ To carry out training of diamond grader and appraisers according to the Russian and international grading systems;
- ▶ To use the photo library of diamond internal and external features (to identify different kinds of characteristics) and photo library of stones graded according to the different systems of clarity grading;

work at the defects of different kinds with the emphasis on their location and reflections in a brilliant, to identify their actual coordinates by imaginary imprints;

- ▶ To stimulate light path into different diamond cut



- ▶ To simulate a photorealistic and stereo image of a diamond for various cuts, parameters and types of lighting;
- ▶ To make a diamond weight precise calculation according to the fixed parameters
- ▶ To simulate a diamond color based on absorption spectra.