HP Carbon Public Documentation

Welcome to HP Carbon Documentation!

Search Documentation

(try typing your question or the name of anything you see in the HP Carbon user interface, e.g. "smart recut", "appraiser", "solutions report")

Also you may

- Overview the Frequently Asked Questions (FAQ)
- Get familiar with what's new in Release Notes

Documentation version: Public (current) | switch to Internal (beta functions, members only)



octonus

The system introduces the process of Reflect scanning. In addition to Shadow (silhouette) scanning, it illuminates each facet in turn and observes the reflection from it, thus greatly improving the precision of scanning and the accuracy of the resulting 3D model. This 3D model is more suitable than ever for accurate grade estimation, polishing quality appraisal, recut planning, and photorealistic visualization.

HP Carbon offers a wide selection of various appraisal systems, including GIA-approved Facetware and user-defined MvAppraiser for multiple shapes. We also introduce SmartRecut algorithm for intellectual asymmetric recut which can be configured for desired diamond proportions using MyAppraiser, and provides a range of plans of varying optical symmetry and mass.

HP Carbon provides sophisticated reports functionality.

is intended for cutting factories, laboratories and dealers.

Main features

- Shadow Scan allows getting an accurate 3D-model of a brilliant using a silhouette approach. Basing on this model, a number of brilliant parameters are measured including height, diameter, facets angle of inclination and azimuth. The HP Carbon 3D-model also includes such elements as additional facets. The 3D-model allows accurate visualization and realistic images to be produced that can show small distortions of symmetry and to use the output with various systems of the appraisal.
- you've built a shadow model, the algorithm scans each facet and records the reflection from it, in order to achieve greater accuracy.
- parameters according to various appraisers. . NEW
- and new parameters for AnvCut.
- NEW Integration with Cutwise allows using HP Carbon together with the OctoNus online service cutwise.com which offers an extended set of tools for visual presenting and comparison of brilliants and their models. In Cutwise account, you can store and present your products which includes both real stones and virtual visualizations for suggested solutions. Upload from HP Carbon to Cutwise in one click, share with ones of your choice or worldwide 24/7.
- NEW Importing DMX Files created in in DM-Xray.
- produced: turn the model to any orientation, toggle different kinds of captions on/off, etc.
- GIA Facetware is the GIA-approved procedure that appraises stones in full accordance with GIA criteria.
- MyAppraiser is the interface for managing custom appraiser, where you may specify whatever limits meet your needs the best.

NEW

- HP Carbon exclusive, not presented in HP Oxygen

Visit a product page on the OctoNus official site.

Did not find what you need? Ask for the information by writing T the comment to any page!

HP Carbon (Helium Polish Carbon) is a bundled hardware+software solution for diamond scanning, a successor to HP Oxygen with plenty of new features. It

• Reflect Scan is the new mode of scanning made available with the new hardware: Helium Crown Reflect and Helium Pavilion Reflect scanners. After • Smart Recut is the improved algorithm of finding asymmetric recut solutions, taking into account possible inclusions in the stone and optimizing

Next generation In-house cut workflow utilizing the composite appraisers, improved usage of SweetLine, improved usage of Smart Recut

• I3D (Interactive 3D) Report is the new kind of report. It includes pictures which you can adjust in many ways at any moment after the report has been

• Comparative Report is the method to thoroughly compare two stones. It is especially useful when considering recut solutions.

DZ Color Estimate is the method for color grading of a series of related recut solutions, based on the expert grading for one of them.