

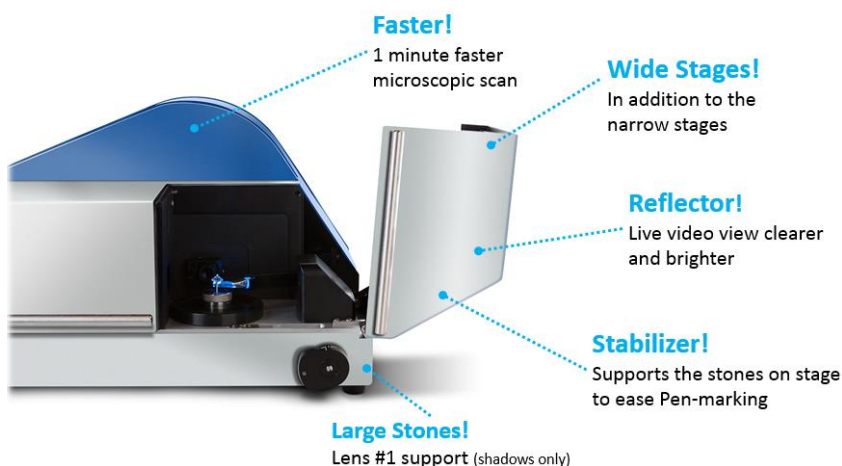
INSTRUCTOR™ 3.7 DIAMOND STUDIO

May 2016

1. DiaMension™ AXIOM Updates

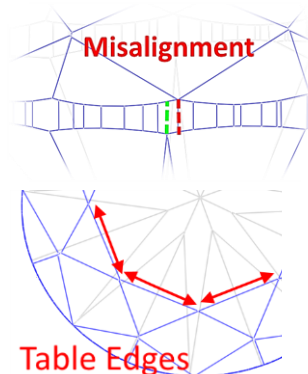
Following the successful 2014 debut, now introducing a new set of improvements and upgrades to AXIOM, the worlds' most accurate diamond measurement device. The updated features address market needs and demands, allowing for easier, smoother and faster system operation.

1. One minute faster microscopic scan!
2. Wide Stages support, in addition to the narrow stages
3. Lens #1 support (shadows only)
4. Lens #2 wider range (includes 1.0ct+)
5. Lens #3 lower-end fix (0.30ct. shallow stones)
6. Stabilizer – automatic support of the stone on stage to ease Pen-marking
7. Reflector mode that creates clear live video view
8. Girdle Features ready* (future capability)



2. New GIA 2015 Symmetry Update

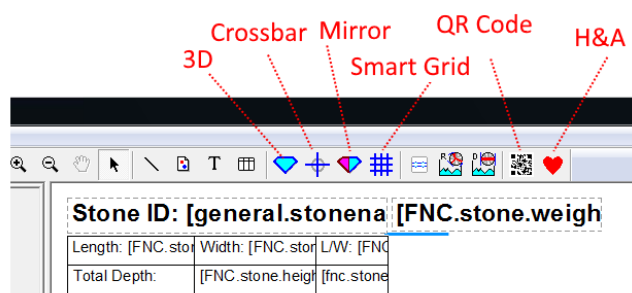
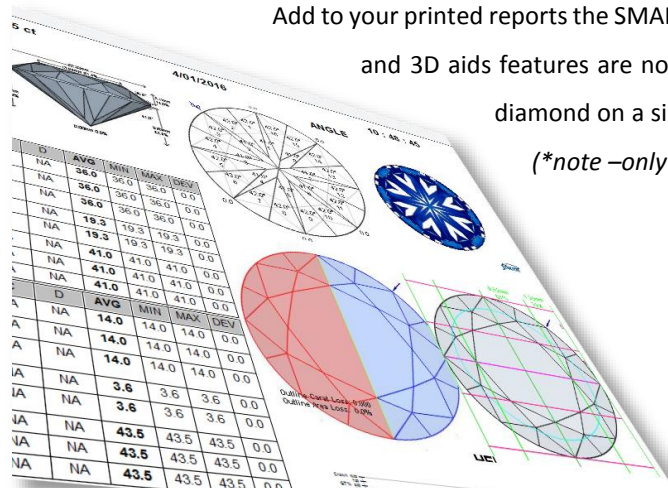
Instructor™ 3.7 includes the official GIA® Symmetry updates released in July 2015. The new update includes the **Table-Edge** Variation, which measures and grades the symmetry of the Round brilliant stone Table, and the **Misalignment**, which measures and grades the alignment of Crown facets' meeting points' position, compared to the corresponding Pavilion points. See image.



3. New Fancy Printing Features

Add to your printed reports the SMART-GRID, the MIRROR, the CROSSBAR, H&A images or a QR code. All the tools and 3D aids features are now printable! Get all the polishing guidelines and directives to optimize the diamond on a single print. All items are customizable and editable in the new *Report-Editor*

(*note –only in Instructor™ Standard and above)



4. Borderline Warnings

Borderline Warnings show the stone's cut and symmetry grades, and indicate whenever these parameters are close to the grade border. Borderline Warnings is an essential tool to reveal the stone's risks as well as its potential, with colorful indications that show both **Upgrades** and **Downgrades** of the stone.

- Supports all Labs and shapes
- Editable and customizable
- Cut & Symmetry parameter
- Full backwards compatibility to Instructor™ 2.x
- New Export capabilities to files/information-system (i.e. Accessors)

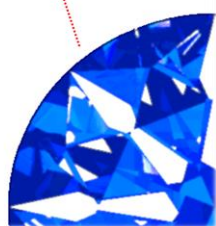
Upgrade

Downgrade

	Avg	Rounded	Sym Grade
Diameter mm	8.02		Excellent
Total Depth %	63.2		
Table Size %	55 ↑	0.7	Excellent
Crown Angle °	35.5 ↓	0.9	Excellent
Crown Height %	16.0	1.0 ↑	Excellent ↑
Girdle Thickness %	3.5 ↓	1.1 ↑	Excellent ↑
Pavilion Angle °	41.2 ↓	0.9 ↑	Excellent ↑
Pavilion Height %	43.5	2.6 ↓	Good ↓
Star Length %	55	3.5	Excellent

(↑ = direction of the border)

Transparent Background



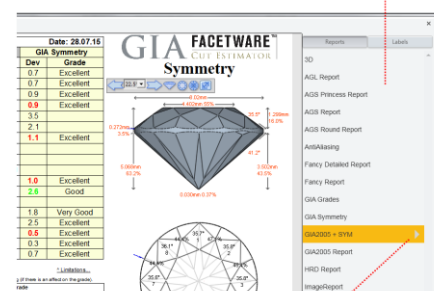
5. Hearts & Arrows v2.5 + Auto save

Instructor™ 3.7 includes the latest updates to the new *RayTracer* engine v 2.5, with improved H&A simulation. In addition, the H&A generation can now be automated and saved without clicks automatically after the scan is complete. Lastly, the previous black background is now set as transparent make is great looking and easy to integrate in any document.

6. New Print Preview

Faster, smarter and easier Print Preview makes the preview-before-print experience and navigation smoother and quicker. With improved user interface, several shortcuts (e.g. F7 key), mouse clicks (2xclick = print) and 'By shape' filter the new Print Preview saves time, clicks and mistakes while carrying out this common, everyday task.

List View to explore all Report / Labels



1- click Print

7. Improved 1st Facet Index (consistency)

New method to declare the 1st facet index of a Round diamond that helps manufacturer to relay on the indexing and creates more consistency during the polishing process.

8. Save as .ASC file

Instructor™ 3.7 includes the ability to save the 3D file in the renowned .ASC format, compatible with a variety of software, such as GEMCAD, and other jewelry CAD applications.

9. AGS PGS recut fix

Critical bug fix to the American Gem Society AGS® Performance grading (PGS)

10. IIDGR 2016 New Lab by De Beers

New Grading system of the IIDGR laboratory

11. Windows 8.1

Instructor™ 3.7 now supports Microsoft® Windows 8.1 O/S 64 bit. For more information, see the Technical Notes document.

