

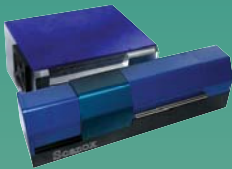
[www.ogisystems.com](http://www.ogisystems.com)



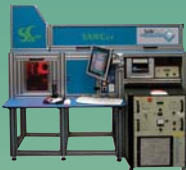
**FRIENDLY SYSTEMS  
BRILLIANT RESULTS**



**Scanox Planner**



**Scanox Marker**



**SAWCut®**



**OGI**

OGI<sup>®</sup> Systems Ltd. was established in 1990 with the vision of inventing advanced technological tools for the diamond industry. Today, the emphasis remains on invention and innovation, as well as continuous improvement of its technology to adjust to customer needs.

OGI Systems Ltd. has over 21 years of experience inventing smart solutions for every stage and facet of the diamond designing and manufacturing.

OGI Systems Ltd. specializes in developing and manufacturing smart instruments in a variety of fields, such as the optimal yield analyzer for rough stones; diamond laser marking system for rough stones; diamond laser inscription systems; rough diamond decision support system; gemological instruments; gemstone proportion analyzer systems; laser for sawing rough diamonds; machines and tools for cut grade evaluation; and all the technology that will assist you in increasing your diamond sales.

Our systems and solutions are patented and marketed internationally and go along with professional support teams proven to be a cut above the industry standards worldwide.

## 21 YEARS OF SUCCESS

FRIENDLY SYSTEMS - BRILLIANT RESULTS

OGI Systems Ltd.



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## SCANOX PROPORTION HD

### High Resolution Proportion System

High Resolution Digital Camera to achieve a perfect 3D model

Compatible with OGI's Polished Software such as FacetPro, Firetrace, Zales Celebration and Recator

Measures and grades diamonds in accordance with major labs

Superior 3D Viewer System allows you to view full measurement and symmetry of each facet



Innovative Multi Lenses provide consistency in diamond measurement

Designed for use in labs that require maximum accuracy

## SCANOX PLANNER HD

### High Resolution Planning System

Dual Laser Scanner for achieving the most true-to-life 3D model of the rough and for optimal mapping of holes and grooves

High Resolution Digital Camera for identification of inclusions

Compatible with OGI's Polished and Rough Software, such as FacetPro, Firetrace, Zales Celebration, Recator, OGI Rough, Best Value, Pique and Multicut

Best planning options for achieving the optimal yield from the stone, which will eventually result in maximization of profit



Superior 3D Viewer System allows you to view full measurement and symmetry of each facet

Innovative Multi Lenses provide consistency in diamond measurement

## SCANOX MARKER HD High Resolution Marker System

Advanced Micro Laser marking unit for visible and extremely accurate laser line

Marking options for all facets for sawing and polishing

Fast marking time

Best planning options for achieving the optimal yield from the stone, which will eventually result in maximization of profit

Compatible with OGI's Polished and Rough Software, such as FacetPro, Firetrace, Zales Celebration, Recator, OGI Rough, Best Value, Pique and Multicut



High Resolution Digital Camera for identification of the smallest visible inclusions

Innovative Multi Lenses provide consistency in diamond measurement

## GEMSCRIBE Powerful Diamond Girdle Laser Inscription

Inscribes logos, numbers, dedications or anything else on the stone's girdle

Inscribes on all shapes, including squares

Inscribes on embedded stones

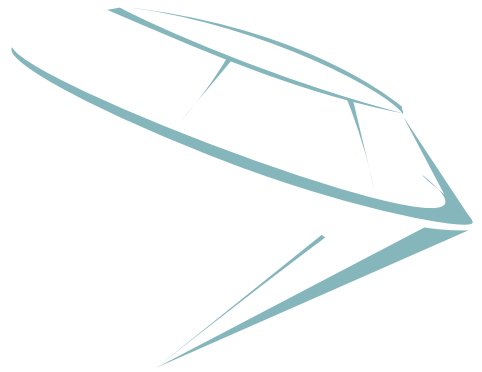
Bar-code reader allows automatic transfer of the diamond serial number into the GEMSCRIBE Software

Supports Windows fonts



FRIENDLY SYSTEMS - BRILLIANT RESULTS

# POLISHED INSTRUMENTS



# OGI

## SCANOX PROPORTION HD

### High Resolution Proportion System

The Scanox Proportion system offers the foremost HD solution based on a High Resolution Digital Camera which enables to achieve a perfect 3D model. The enhanced CCD sensor in the camera provides the sharpest and clearest diamond image possible, featuring important details such as proportions, symmetry and extra facets. In addition, Scanox includes innovative multi lenses that provide consistency in diamond measurement.

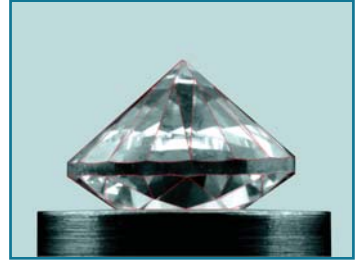


The Scanox Proportion system is the ultimate solution to measuring and grading of brilliant polished diamonds and has been designed to be used in labs that require maximum accuracy during the scanning process of the diamond.

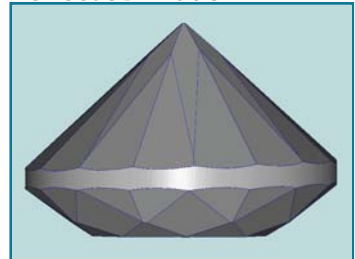
#### Product Highlights:

- Advanced High Resolution Digital Camera provides accurate scanning of the diamond and a perfect 3D model
- Innovative Multi Lenses provide consistency in diamond measurement
- Internal Led Lighting for enhanced view of the stone
- Superior 3D Viewer System – allows you to view full measurement and symmetry of each facet
- Measures and grades diamonds in accordance with major labs such as: GIA, IGI, AGS, GCAL, HRD Antwerp, EGL, AGL, CGL and more
- Fast measuring time
- USB connection

HR Diamond Measurement



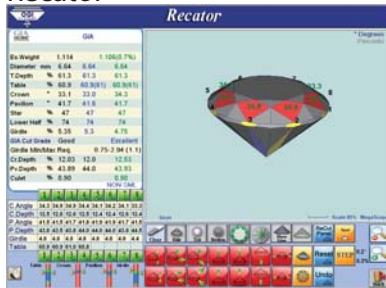
Perfect 3D Model



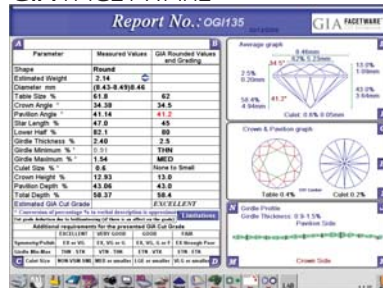
## Technical Information:

MODEL	Scanox Proportion HD
DIGITAL CAMERA RESOLUTION	Yes
MULTI - LENSES	3 Channels
MEASURING SIZE	A choice of lenses suitable for different diamond sizes
WEIGHT	7 kg
INTERFACE	USB 2.0
DIMENSIONS	W: 104 mm x L: 420 mm x H: 130 mm
ACCURACY	Linear 0.01 mm, angular 0.02
VOLTAGE	Universal 100V-240V for global electrical compatibility

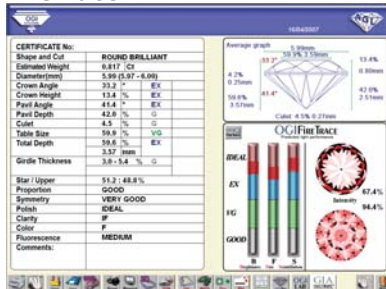
### Recator



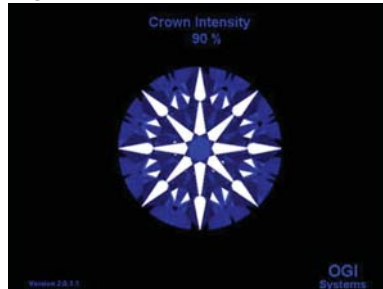
### GIA FACETWARE™



### FireTrace®



### H&A



## Compatible Software:

Facet Pro, GIA Facetware, Recator, FireTrace®, H&A, Zales Celebration

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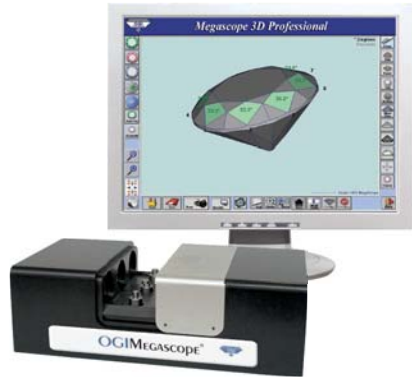
OGI Systems Ltd.





## MEGAScope OGI Proportion Analyzer

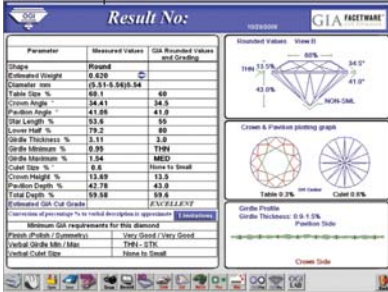
The MEGAScope system is the ultimate solution to measuring, grading and re-cutting of diamonds, from the rough stage up to the fully polished stone. This machine is being used by many of our customers, ranging from gemological laboratories to diamond dealers, wholesalers and manufacturers.



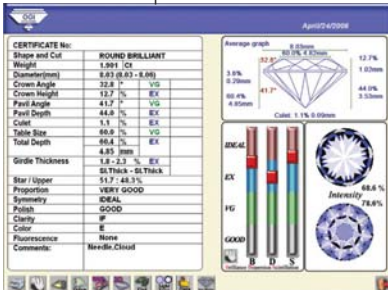
The MEGAScope system uses OGI Facet Pro software to measure round and many fantasy diamonds according to standards of different laboratories, such as GIA, HRD and IGI.

It then produces a variety of reports comprising the following most accurate information about the diamond: weight, diameter, depth, crown angle and height, pavilion angle and height, culet and more. These reports can be printed on labels, letters or plastic cards.

### Basic Report



### Firetrace Report



### Product Highlights:

- Advanced 3D viewer system allows you to view the measurement and symmetry of each facet
- Automatic or manual re-cut function for superior cut
- Real Video facet marking
- Measuring time - less than 18 seconds
- Accuracy:  
Linear: +15 microns,  
Angular: +0.15 degrees

### Compatible Software:

OGI Facet Pro, GIA Facetware, Recator, FireTrace®, Zales Celebration

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## Machine Models and Technical Information:

### 1-Channel Unit

Measures stones up to 13 mm  
(optional: up to 6.5 ct in round stones)

**Dimensions:**

W:65 mm x L:300 mm x H:100 mm

**Weight:** 1.75 kg

1-Channel



### 2-Channel Unit

Measures stones up to 17 mm  
(optional: up to 15 ct in round stones)  
No need for lens replacement.

**Dimensions:**

W:112 mm x L:305 mm x H:95 mm

**Weight:** 4 kg

2-Channel



### 3-Channel Unit

Measures stones up to 24 mm  
(optional: up to 40 ct in round stones)  
No need for lens replacement.

**Dimensions:**

W:116 mm x L:305 mm x H:95 mm

**Weight:** 16.5 kg

3-Channel



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FRIENDLY SYSTEMS - BRILLIANT RESULTS

OGI Systems Ltd.

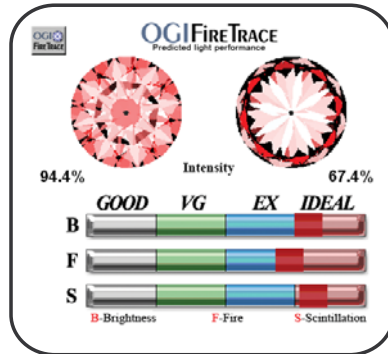
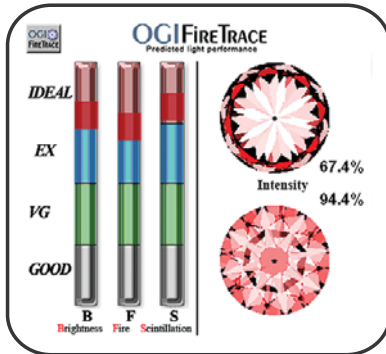
# MEGAFire

## Light Trace Analyzer

When a customer walks into a jewelry shop to buy a diamond, the decision of which diamond to purchase relies heavily on how much the diamond's fire and sparkle bring it to life. This can be assessed and controlled in the production stage of the diamond.

MEGAFire measures the diamond and determines how much "life" it has in it. This is done by the use of Ray-Tracing Technology, based upon data containing a great amount of combinations. The factors on the diamond facet that are taken into account are: total depth, table size, crown angle, crown height, pavilion angle, pavilion depth, lower-half, star length and culet.

This tool can be used to sort stones according to the level of their Light-Reflecting properties in a scientific way, without having to rely on previous knowledge of the stone.



## MEGAFire – Evaluating Diamonds According to OGI FIRE GRADE Standards



The report regarding the light performance of the diamond produced by the FIRETrace® software is based on three factors:

**Brightness:** Describes the refractions and reflections of white light coming from the diamond in "face-up" position. Brightness is created primarily when light enters through the table, reaches the pavilion facets and is then reflected back out through the table, where the light is most visible to the eye.

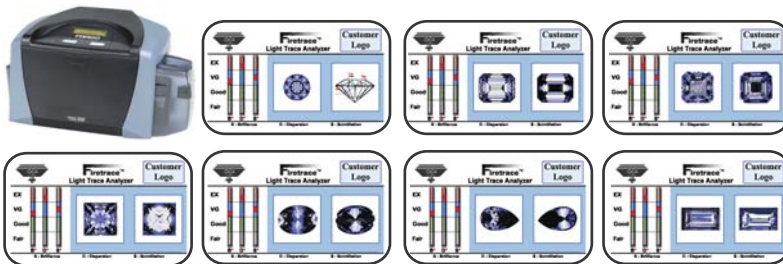
**Fire:** Describes the fiery rainbow color-flashes emanating from the diamond. This is white light broken up into the colors of the spectrum.

**Scintillation:** Describes the refraction and reflection of the light that flashes on and off as the diamond, the observer or lighting move.

### Product Highlights:

- The diamond's light reflection is evaluated according to OGF FIRE GRADE standards.
- Customized Certificates or Reports can be printed out on different letter sizes.
- Measurement results from the instrument can be printed out on an elegant magnetic card and presented to the customer after the purchase of the diamond.

### Card Printer and OGI Result Cards:



### Technical Information:

**Dimensions:** W:65 mm × L:300 mm × H:100 mm

**Weight:** 1.75 kg

### Compatible Software:

FireTrace® software, Facet Pro software, GIA Facetware

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# DIAMSCOPE<sup>®</sup> – NANO

## Advanced Computerized Gauge

Diamscope<sup>®</sup> Nano, the leading computerized gauge for small-stone sorting is the ultimate method for achieving invisible settings during the embedment of the stones.

No more elaborate manual sorting of diamonds, which is not only time-consuming, but may also lead to inaccurate embedding. In our fast-paced modern world, diamond dealers and manufacturers are constantly looking for the simplest solutions corresponding to their needs. When it comes to small-stone quick sorting, Diamscope<sup>®</sup> Nano is the ultimate answer.

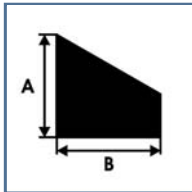
### Product Highlights:

- Scanning time - only 1 second
- Measures sizes ranging from 0.01 to 30 points
- Assists in quick sorting
- Good for invisible settings, fine jewelry and Swiss watches
- Measures all shapes and especially useful for princess, baguette and square shapes
- Displays corner angles, length, width and diamond edge
- User-friendly interface
- USB Plug n' Play

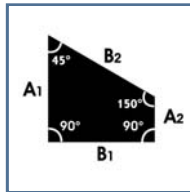


### Why is Diamscope<sup>®</sup> Brilliant?

Diamscope<sup>®</sup> can measure all facets and angles...

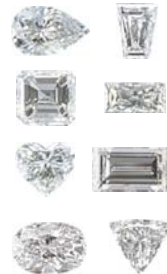


A normal gauge can only give you A, B measurements



But with DiamScope<sup>®</sup> you can get all the measurements: A1 A2, B1 B2 & Angles

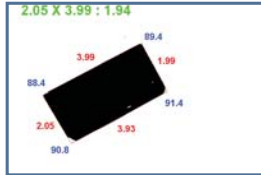
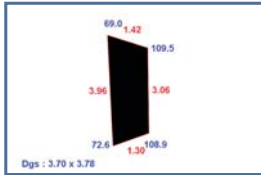
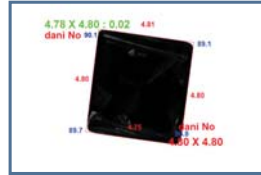
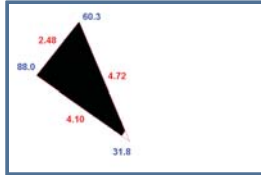
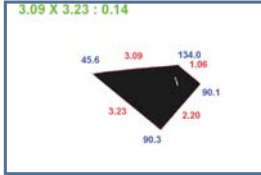
Diamscope<sup>®</sup> can measure all shapes:



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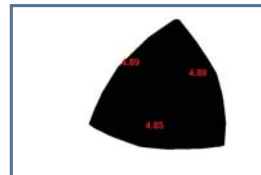
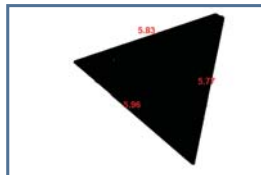
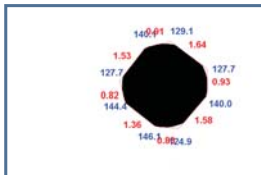
In only 2 seconds you can get:

## Corner Angles:

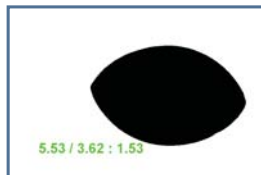
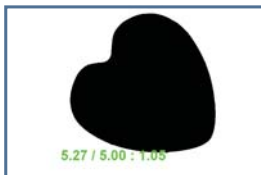


The angles show whether the princess is square or not

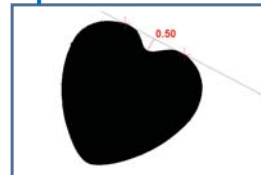
## Diamond Edge:



## Length and Width:



## Another Fancy Option:



The groove depth can be measured

## Technical Information:

Dimensions: W:65 mm x L:300 mm x H:100 mm

Weight: 1.75 kg

# GEMSCRIBE

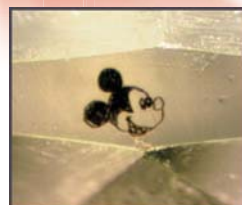
## Powerful Girdle Laser Inscription System

**GEMSCRIBE** is a powerful automatic diamond inscription system which allows you to inscribe on the stone's girdle for any conceivable purpose, from branded inscriptions to personal dedications. Gemscribe is especially useful for jewelry dealers that wish to upgrade their certificates of authenticity; a snapshot of the inscription is taken and the bitmap image can be added to the certificate.

**GEMSCRIBE** is extremely beneficial and practical due to its unlimited performance. For example, it can inscribe on stones of different sizes, ranging from 5 points to 1000 carats. Another feature is its exclusive ability to inscribe on some embedded stones. Furthermore, the font, number and shape size can extend from 20 to 250 microns. And on top of all, the system supports numerous Windows fonts, including Chinese.

**GEMSCRIBE** is a convenient and user-friendly system. The program has been designed and planned as Plug n' Play, thus no special training is required of the client before operating the device. In addition, there is a special friendly option enabling the uploading of any logo or graphic file that has been designed in any other graphic program.

### Inscription Samples:



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## Product Highlights:

- Inscribes logos, numbers, dedications or anything else on the stone's girdle
- Inscribes on all shapes, including squares
- Inscribes on other gemstones, such as rubies and emeralds
- Inscribes on embedded stones
- No limit to the stone-size
- Easy to make changes or additions following the inscription
- Supports Windows fonts
- Demonstrates extremely high speed (2 seconds per letter)
- Bar-code reader allows automatic transfer of the diamond serial number into the GEMScribe Software

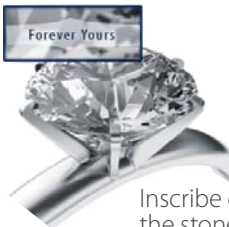
## GEMScribe Diamond Inscription Applications:



Brand your company logo



Protect your diamond by inscribing a unique serial number



Inscribe even when the stone is already set on a ring



Inscribe your customer's personal message

## Technical Information:

**Dimensions:** W:370 mm x L:510 mm x H:200 mm

**Weight:** 15 kg

**Voltage:** 12 volt 110-220 Auto Switching

## Related Product:

Girdle Viewer

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## GIRDLEVIEWER

### Compact Microscope for Photographing Stone Engravings

In the jewelry industry, there is constant need for inspection tools that enable quality control, classification and working on diamonds and gemstones. Moreover, any respectable jeweler would enjoy having a user-friendly tool that can easily assist in building up a reputation of credibility.

#### Product Highlights:

- Freestanding unit with monitor
- Clear and neat display of engravings
- Image can be displayed simultaneously to both the salesperson and the customer
- Elegant and compact device
- Can be placed on the jewelry counter
- Clear display of the diamond, even when it is set in a jewel



XWJ-100

#### Inscription Samples:



#### Technical Information:

**Dimensions:** W: 175 mm × L: 215 mm × H: 110 mm

**DPI:** 640 × 480

**Weight:** 14 kg

**Screen Display:** 8"

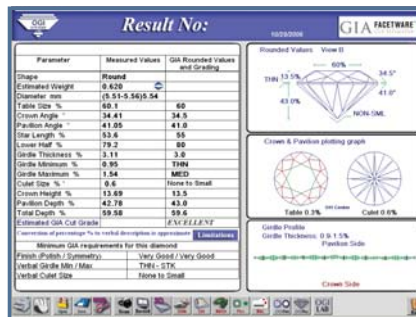
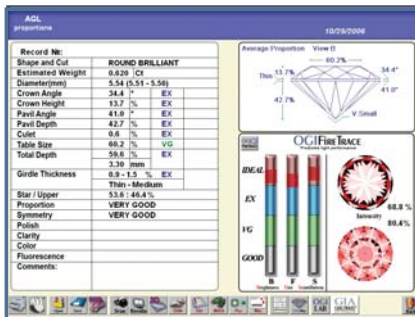
**Related Product:** GEMSCRIBE

## GIA | FACET SCAN Cut Grade Proportion Analyzer



### Product Highlights:

- Portable for appraisals
- USB Plug N' Play
- Widest stone range: 4.5 mm to 11.30 mm
- High resolution camera
- Led lighting - enhanced view of the stone



### Technical Information:

**Dimensions:** W:65 mm x L:300 mm x H:100 mm

**Weight:** 1.75 kg

**Voltage:** 12 volt 110-220 AutoSwitching

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FRIENDLY SYSTEMS - BRILLIANT RESULTS  
OGI Systems Ltd.

FRIENDLY SYSTEMS - BRILLIANT RESULTS

**ROUGH**  
INSTRUMENTS



**OGI**

## SCANOX MARKER HD

### High Resolution Marking System



With the Scanox Marker advanced optical lenses and HR Digital Camera, you can achieve the highest degree of viewing and mapping of the pique, and hence the optimal and most accurate marking line.

Scanox Marker HD, coupled with the Best Value Feature from the OGI Rough software, is an integral unit offering the perfect solution package for accomplishing all the steps, starting from the measurement of the rough diamond, proceeding through most accurate mapping of the smallest visible inclusions, and culminating in planning and marking of the stone. This package provides you with the best systems for achieving the optimal yield from the stone, which will eventually result in maximization of profit.

#### Product Highlights:

- High Resolution Digital Camera for most accurate mapping of the smallest visible inclusions
- Micro Laser Unit for marking of visible and extremely accurate laser line
- Precise Laser Scanner for optimal mapping of holes & grooves
- Fast marking time
- Automatic control of the speed and line size (thin or thick laser marking)
- Marks lines for sawing
- Marks lines for table, upper and lower girdle, crown and pavilion facet and all the tops
- Marks culets for defect removal
- Innovative Multi Lenses for consistency in diamond measurement
- Internal Led Lighting for enhanced view of the stone
- USB connection

## Technical Information:

MODEL	Scanox Marker HD
MICRO LASER MARKING UNIT	Yes
DIGITAL CAMERA	Yes
LASER SCANNER	Yes
MULTI-LENSES	3
MEASURING SIZE	A choice of lenses suitable for different diamond sizes
WEIGHT	14 kg
INTERFACE	USB 2.0
DIMENSIONS	W: 400 mm x L: 420 mm x H: 200 mm
ACCURACY	Linear 0.01 mm, angular 0.02
VOLTAGE	Universal 100V-240V for global electrical compatibility

Rough 3D Model



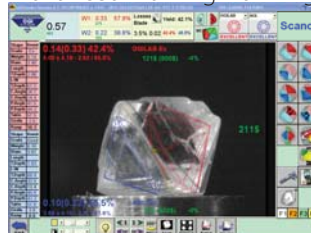
Sawing Window



Multiple Stone Planning



Advanced Marking Planning



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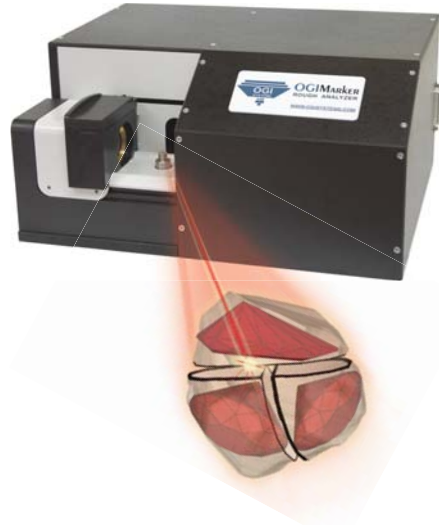
## Compatible Software:

OGIRough Software, Pique Software, Best Value Software, Facet Pro Software, GIA Facetware, Recator Software, FireTrace® Software

# OGIMARKER<sup>®</sup>

## Multi-Lens Laser Marking System

In 1999, OGI Systems Ltd. launched its computerized automatic marking system. Since the pen marking had sometimes been erased during work, OGI Systems developed a method of marking with the indelible laser. This system assists the diamond cutter in achieving an instant and accurate cutting line and facilitates the finding of the optimal yield of the rough stone.



Advanced Automatic Marking

### Why is OGIMARKER<sup>®</sup> accurate?

The machine scans and produces a 3D image of the rough diamond. After analyzing the rough stone and the optimal diamond shape to be produced, the software illustrates the place it should be marked, with virtual yellow lines on the monitor.

The computer then sends instructions to the laser source, which in turn marks the cutting lines on the rough stone, exactly as they are displayed on screen. Computerized control at all stages of the marking process ensures maximum accuracy.

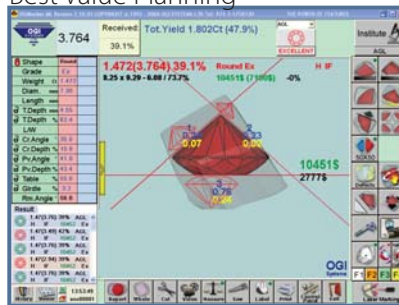
## Product Highlights:

- Multi-lens model
- Built-in rough laser mapping units
- Extremely accurate laser line
- Laser speed control
- Automatic control of the laser marking (Thin Line, Dark Line)
- Visible laser line
- Marks lines for sawing
- Marks line for table
- Marks line for upper and lower girdle (stone after bruting)
- Marks line for crown and pavilion facet
- Marks all the tops (highly economical)
- Marks culet
- Marks line for defect removal
- Marks shape model (exceptionally helpful for fancy shapes)

Inclusion Analyzer



Best Value Planning



## Technical Information:

**Dimensions:** W: 345 mm × L: 370 mm × H: 175 mm

**Weight:** 17 kg

## Compatible Software:

OGIRough Package Software  
(Pique, Best Value)  
OGI FacetPro Package Software  
(GIA Facetware, FireTrace®, Recator)

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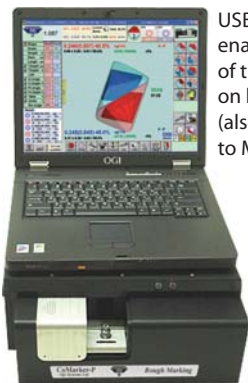
FRIENDLY SYSTEMS - BRILLIANT RESULTS  
OGI Systems Ltd.

## COMARKER Single-Lens Laser Marking System

In 1999, OGI Systems made a revolution in the rough world with the creation of the first Automatic Rough Marking machine. A few years later, OGI Systems took a step forward and came up with a new invention: the Automatic USB Single-Lens Marking Machine. This invention has made the marking process as simple as USB Plug N' Play.

### Product Highlights:

- Single-lens model
- Internal micro laser
- High resolution camera
- New LED light for optimal viewing of the rough stone
- LED signal for the laser marking
- New algorithms that increase the marking and planning speed
- USB Plug N' Play
- Supported by OGI Rough software



USB connection enables operation of the system on laptops. (also adaptable to Macintosh laptops)

### Technical Information:

#### Dimensions:

W:330mm x L:375mm x H:150mm

Weight: 14.5 kg

#### Compatible Software:

OGI Rough Package Software  
(Pique, Best Value)

OGI FacetPro Package Software  
(GIA Facetware, FireTrace®, Recator)

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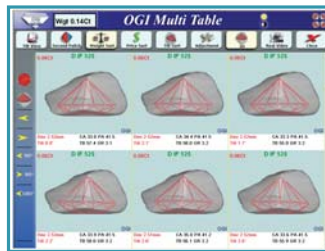


## MICROMARKER up to 0.55 points Compact Laser Marking System



### Product Highlights:

- Single-lens model
- Measures from 0.01 to 0.55 points
- Revolutionary compact design
- USB Plug N' Play
- Marking time of 50 stones: less than 1 hour
- Extremely fast marking on any line or shape
- Automatic control of the laser marking (Thin Line, Dark Line)
- Extremely accurate laser line
- High resolution camera
- Built-in laser mapping units



### Technical Information:

**Dimensions:** W:330 mm x L:375 mm x H:150 mm

**Weight:** 15 kg

### Compatible Software:

OGIRough Package Software (Pique, Best Value)

OGI FacetPro Package software (GIA Facetware, FireTrace®, Recator)

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FRIENDLY SYSTEMS - BRILLIANT RESULTS

OGI Systems Ltd.

## SCANOX PLANNER HD

### High Resolution Planning System



The Scanox Planner System is the leading solution to Measuring, Planning and Grading of diamonds from the rough stone up to the brilliant polished diamond.

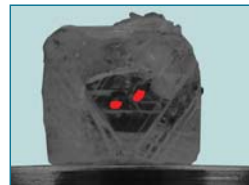
Scanox Planner is equipped with the most advanced dual laser scanning and mapping system for most accurate detection of holes, grooves and other concave areas, for achieving the most true-to-life 3D model of the rough. The Scanox system is based on a High Resolution Digital Camera that provides the sharpest and clearest diamond image and enables detection of the real size and exact location of any inclusion. Scanox provides dealers,retailers and manufacturers with an integration of the most innovative OGI Rough & OGI FacetPro software and a High Resolution hardware system.

### Product Highlights:

- Dual laser scanner for achieving the most true-to-life 3D model of the rough and for optimal mapping of holes & grooves
- High Resolution Digital Camera for most accurate mapping of the smallest visible inclusions
- Innovative Multi Lenses for consistency in diamond measurement
- Internal Led Lighting for enhanced view of the stone
- Superior 3D Viewer System for viewing of full measurement and symmetry of each facet
- Millions of cutting options calculated by powerful algorithms, suggesting different possibilities for the polishing of the stone, which can contribute to increased yields
- USB connection



Inclusion Reflection



Actual Inclusion Location



Actual Inclusion Location for Planning

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## Technical Information:

MODEL	Scanox Planner HD
DIGITAL CAMERA	Yes
MULTI - LENSES	3
LASER SCANNER	Yes
MEASURING SIZE	A choice of lenses suitable for different diamond sizes
WEIGHT	7 kg
INTERFACE	USB 2.0
DIMENSIONS	W: 104 mm x L: 420 mm x H: 130 mm
ACCURACY	Linear 0.01 mm, angular 0.02
VOLTAGE	Universal 100V-240V for global electrical compatibility

Multicut Planning



Multiple Planning



## Compatible Software:

- OGIRough Package Software  
(Pique, Best Value)
- OGI FacetPro Package Software  
(GIA Facetware, FireTrace®, Recator)

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FRIENDLY SYSTEMS - BRILLIANT RESULTS

OGI Systems Ltd.

## OGITENDER® Portable Rough Analyzer

OGITender® is the most popular analyzer for business trips and tenders. If you want to offer a winning bid for rough stones at auction, take the OGITender® with you. With the OGITender® technology, you will be far more confident that you have made the right decision. The OGITender® invention is the only rough stone analyzing tool designed for up to 100 carats that uses a laptop computer, and therefore allows you complete mobility when purchasing rough stones.



### Product Highlights:

- USB Plug N' Play
- Analyzes Round and all Fancy Shapes
- Powerful algorithms are used to calculate millions of cutting options
- Automatically calculates the rough price for bids
- Optional measurement: up to 40 or 100 carats
- Optional Laser Scanner enables precise mapping of grooves and holes
- High resolution camera

Find 2 stones with identical weight



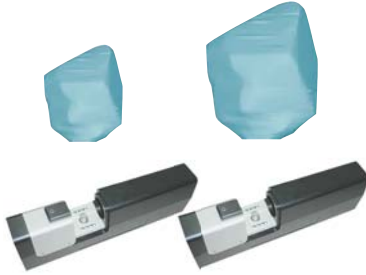
Find 2 stones by best value



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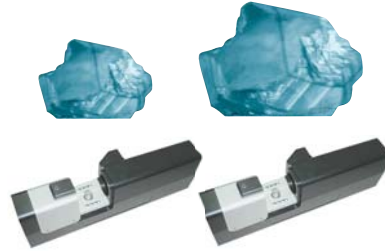
## Available in 4 Brands:

**OGITENDER F40**   **OGITENDER F100**



Regular Planning System

**OGITENDER F40 S**   **OGITENDER F100 S**  
*(with laser scanner)*   *(with laser scanner)*



Laser Mapping included to detect grooves, holes and any other concave area

## Technical Information:

### TYPE F40

**Measurement:** Up to 40 carats

**Dimensions:** W:65 mm x L:300 mm x H:100 mm

**Weight:** 1.4 kg

### TYPE F100

**Measurement:** Up to 100 carats

**Dimensions:** W:65 mm x L:340 mm x H:95 mm

**Weight:** 1.9 kg

**Voltage:** 12 volt 110-220 Auto Switching

## Compatible Software:

OGIRough Software, Pique Software, Best Value Software

## Related product:

ColoriMeter

## SAWCut<sup>®</sup>

### American Green Laser Diode for Sawing & Shaping

SAWCut<sup>®</sup> is a Green Diode Laser machine for sawing and shaping of round and fantasy stones. SAWCut<sup>®</sup> saws the rough and smooths the table surface of the diamond.

SAWCut<sup>®</sup> is a Diamond Sawing American Green Diode Laser system technology that performs a smooth cut of the rough diamond surface, utilizing its maximum potentiality in the manufacturing process of the rough stone. This process drastically minimizes the waste from the rough material.

The SAWCut<sup>®</sup> System is one stage in the manufacturing process of the diamond: Prior to sawing, the diamond's surface needs to be measured, evaluated and designed. This can be done by means of the OGIRough analyzing, planning and marking systems, such as the Scanox Marker or OGIMarker<sup>®</sup>. The marked stone is then transferred to the SAWCut<sup>®</sup> Diamond Sawing Laser System, which acts upon the information derived from the stone's markings, and performs a smooth cut of the rough and fancy diamond surface.



### Product Highlights:

- State-of-the-art 100W high power Green Diode YAG laser
- Powerful software for sawing & shaping
- Includes shape editor to create, customize and import your own shapes or models
- Advanced built-in cooling system
- Single or double-sided sawing to reduce weight loss in final polishing and to receive smooth surface sawing  
( 1.7%-2.5% loss in single-sided sawing, less than 2% loss in double-sided sawing)
- High capacity cassette for 54 stones
- Enhanced sawing time
- Designated to work non-stop around the clock
- Low maintenance system
- Advanced control system to ensure sawing process as planned
- Option to change the sawing parameters during operation for optimization of the sawing range
- Built-in compressor system for cooling of stone



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## Estimated Production by SAWCut®

### Single-Stone Sawing

WEIGHT	CARAT / 24 h
0 - 0.10	80
0.11 - 0.15	95
0.16 - 0.25	110
0.26 - 0.50	125
0.51 - 0.75	140
0.76 - 1.00	150

### Mass Sawing (with Cassette)

WEIGHT	CARAT / 24 h
0 - 0.10	100
0.11 - 0.15	110
0.16 - 0.25	130
0.26 - 0.50	150
0.51 - 0.75	180
0.76 - 1.00	200

### Technical Information:

**Dimensions:** W:85 mm x L:185 mm x H:120 mm

**Weight:** 420 kg (926 lbs)

**Voltage:** 220V

**Laser Source:** YAG green diode laser

**Wave Length:** 532 nM

**Axis travel:** 200 mm x 200 mm x 50 mm (*We can supply higher*)

### Related Products:

OGI Rough Analyzers: Scanox Marker, OGIMarker®, MEGARough, Scanox Planner, OGITender® and SAWLiner

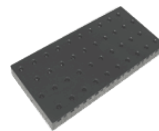
### Accessories:



Sawliner



Double-Sided  
Sawing Cassette



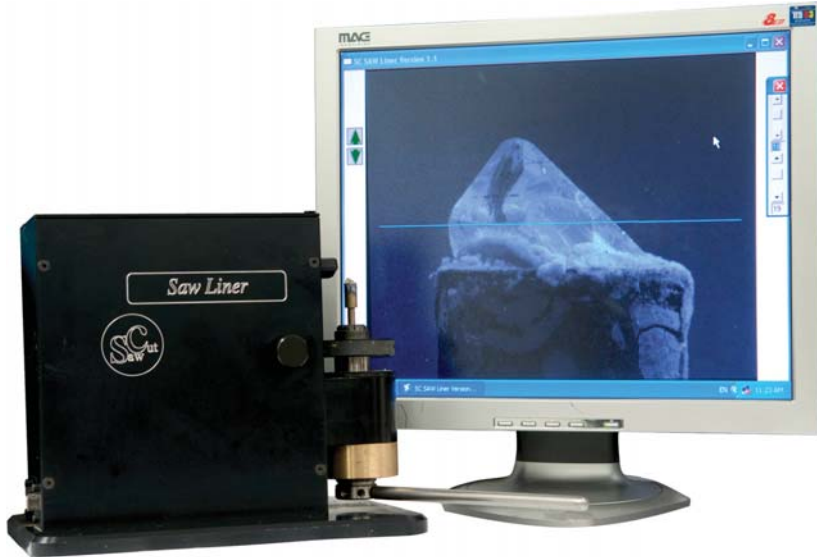
Shape Cassette

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## SAWLINER

### Setup Station for Sawing & Shaping

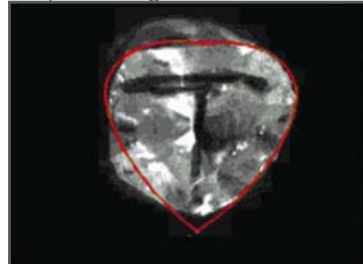
- Positions the stone in the optimum position for sawing
- Evaluates the precise measurement for sawing
- A weight control system ratifies the weight material
- A placement system reduces mistakes after the pasting of the stone



Saw Line Positioning



Shape Setting



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FRIENDLY SYSTEMS - BRILLIANT RESULTS

SOFTWARE



OGI

# OGIRough Software

## Advanced Rough Analyzer

OGIRough analyzer provides the most innovative method for determining the optimal yield of a rough stone. Each one of the suggested models will measure the stone, analyze its dimensions and show the best way to achieve the optimal completed diamond. It will present a 3D simulation of the analysis results as well as comprehensive numerical information organized in charts and diagrams intended to help you decide on the best way to process it.

The maximal weight and maximal value of the predicted polished diamonds are taken as the optimized criteria in accordance with the 4C's. The predicted color is set by an operator or transferred from a rough color machine. Our laser mapping technology software allows optimal precision in revealing the stone's surface as well as detecting grooves, holes and any other concave area. Our advanced laser marking software allows for the best option chosen by the operator for marking, sawing and polishing.

The software is also capable of automatically calculating the position and clarity grade of the inclusion as viewed by the Inclusion Technology system even through a coated rough stone. The OGIRough features will enable you to optimize your profits while increasing your diamond production.

### Advanced Rough Planning

- Powerful algorithms are used to calculate endless cutting options for the highest yield possible from any rough stone
- Best Value feature with advanced algorithms automatically analyses different cut grades, shapes, clarity grades and inclusions' positions for maximum profit
- Multi-Cut feature enables allocation of its own round and special fancy shapes, and also planning of unlimited customized shapes, resulting in maximization of yield
- Inclusion Mapping feature calculates the diamond's clarity grade as viewed by the user, thus enabling most accurate mapping of the inclusion's position
- User-friendly and easy to operate, very little training necessary

## Product Highlights:

- 3D mapping technology, rotates in live video
- Integrated with OGI SAWCut® Laser Sawing & Shaping for maximum accuracy
- Label Report printing for control of further polishing and sawing process
- Supports GIA cut database GIAFacetware
- Multilingual software: English, Hebrew, Russian and Gujarati



## Rough Inclusion Technology (High Resolution Camera or X-RAY Unit required)

In the past few years, OGI has been developing new technology for the detection of inclusions in the rough diamond.

With the High Resolution Camera, the mapping of any visible inclusion, including Gleatz/piques(VS to I), can be considered. Following the mapping, the system automatically calculates the position of the inclusion, hence, the clarity grade as viewed by the user.

The X-Ray system goes a step further and automatically maps and calculates the position of the inclusion and the stone's clarity grade, even through a coated rough stone.

With these systems, you can select any inclusion you wish to consider in order to maximize your profit. Or alternatively, you can use the Best Value Feature with advanced algorithms that automatically analyses different cut grades, shapes, clarity grades and inclusions' positions for maximum profit.

## Related products:

Scanox (Proportion, Planner, Marker),  
OGIMarker®, COMarker, MicroMarker,  
OGITender®, MEGARough, SAWCut®

# FACETPRO SOFTWARE

## Proportion Analyzer

FacetPro Software focuses on Measuring, Grading and Re-Cutting of diamonds, providing gemological laboratories, diamond dealers, wholesalers and manufacturers with the ultimate solution.

### Product Highlights:

- Measures and grades diamonds in accordance with major labs, such as: GIA, IGI, AGS, GCAL, HRD Antwerp, EGL, AGL
- Supports many shapes: Round, Princess, Oval, Marquise, Pear, Triangle, Heart, Radiant, Asscher, Cushion and Emerald
- Manual/Automatic RE- Cut function for better cut
- Prints customized reports on card & label printers
- Produces reports with the following information: weight, diameter, depth, crown angle and height, pavilion angle and height, culet size, culet off center ,table size, table off center, stars, lower and upper girdle and more
- Can save all database information in BMP, WMF, JPG, Excel, STL formats
- Exports to CAD CAM jewelry software (STL Format)
- Exports results to any inventory software
- "Find and search" option - finds matching stones in your archive
- Plots inclusions to be added to your reports
- Supports GIA Facetware Cut Estimator



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### Related products:

Scanox ( Proportion, Planner, Marker),  
Megascope, Megarough, OGI Marker®

# FIRETRACE<sup>®</sup> Software

## Light Trace Performance

**FireTrace<sup>®</sup> Software:** This innovative achievement is the result of a unique technology for analysis and evaluation of the light reflection of the diamond. The use of the Firetrace<sup>®</sup> software through the MEGAFire, Scanox or MEGAScope instruments is the first stage in the process of estimating the degree of light reflection contained in the diamond. In a matter of seconds, the system illustrates a graphic image of the upper and lower sections of the diamond and also of the amount of light reflection projected from the geometrical shape of the diamond.

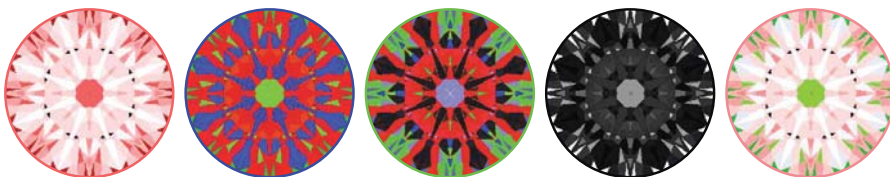
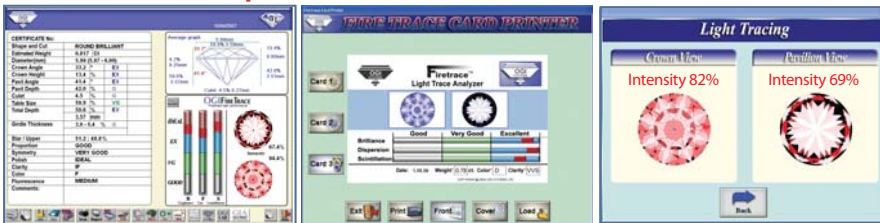
The reports regarding the light performance of the diamond produced by the Firetrace<sup>®</sup> software are based on three factors:

**Brightness:** Describes the refractions and reflections of white light coming from the diamond in "face-up" position. Brightness is created primarily when light enters through the table, reaches the pavilion facets and is then reflected back out through the table, where the light is most visible to your eyes.

**Fire:** Describes the fiery, rainbow color-flashes emanating from the diamond. This is white light broken-up into the colors of the spectrum.

**Scintillation:** Describes the refraction and reflection of the light that flashes on and off as the diamond, the observer or lighting move.

### FIRETrace<sup>®</sup> Pro Options:



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**Related Products:** MEGAFire, Megascop or Scanox

FRIENDLY SYSTEMS - BRILLIANT RESULTS

OGI Systems Ltd.

# OGF - OGI FIRE GRADE

## Light Trace Standard

OGF Light Trace Standard, a new, innovative achievement, is the result of a unique technology for analysis and evaluation of the light reflection of the diamond.

The OGF FIRE GRADE has been developed in the company's laboratories as a result of extensive research and has been found to be the optimum Ray-Tracing Technology. This technology has been implanted into various systems of our company.

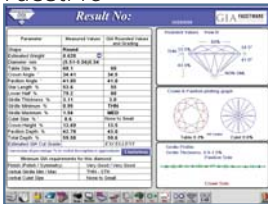
This Ray-Tracing Technology is based upon data containing a great amount of combinations made up proportionately by various factors on the diamond facet, such as: total depth, table size, crown angle, crown height, pavilion angle, pavilion depth, lower-half, star length and culet.

The use of the MEGAFire, MEGAScope or Scanox polished software is the first stage in the process of estimating the degree of light reflection contained in the diamond. In a few seconds, the system illustrates a graphic image of the upper and lower sections of the diamond and also of the amount of light reflection projected from the geometrical shape of the diamond.

If you wish to obtain excellent light refraction and reflection standards, it is possible to undertake a new evaluation of the stone until obtaining a perfect standard.

An additional option is the use of the Fire Technology found in the rough stone software, which permits maximum evaluation of the polished stone. In other words, optimum weight and optimum light reflection can be obtained during the stage when the diamond is still in a rough condition. In addition, it is possible to achieve additional cuts from the stone's profile, making it more suitable for marketing purposes.

FacetPro



FacetPro 3D Recut



OGIRough

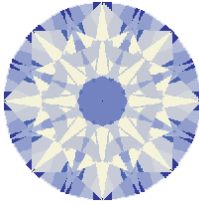


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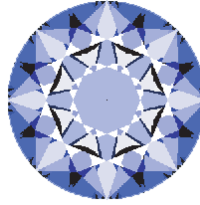
This technology highly contributes to gemological institutes as an additional tool in evaluating the stones according to their light reflection properties. These can be divided into four central categories:

## Fire Grade Standard

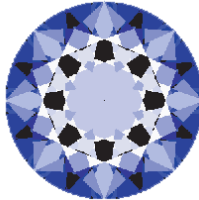
Excellent



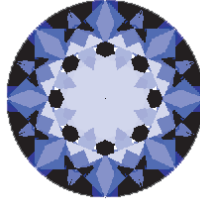
Very good



Good



Fair



## Example of one combination\* :

Fire Grade		Excellent	Very good	Good	Fair
Table depth	%	56.8	60	61.4	64.2
Table Size	%	60.0	61.1	62	58
Crown Angle	°	30	34	36	36
Crown Height	%	11.5	13.19	13.8	15.2
Pavilion Angle	°	40.9	41.9	42.4	43.2
Lower Half	%	80	70	70	70
Star Length	%	50	50	50	50
Culet	%	0.01	0.01	0.01	0.01

\* OGF contains millions of combinations.





The **Recator** program includes an application which presents the repaired stone in a 3D live simulation. This simulation enables viewing of both the changes that will be made to the repaired facet along with the corresponding changes to its neighboring facets. This way the polisher knows in advance how the whole stone will look like when it is finished.

The **Recator** program is especially designated for GIA FACETWARE. The program aids the diamond polisher in fixing only the part of the diamond necessary for upgrading the stone to Excellent cut grade. This correction influences the diamond's final grade while reducing the weight loss to a minimum. For example: If the upper angle average is 35.3, then the program locates the upper edge, offers to fix it to 35.5, and calculates the least amount of waste required to do so. This reduces the waste to a minimum when the diamond is re-polished.

### Related products:

Scanox (Proportion, Planner, Marker),  
MEGAScope, MEGARough,  
OGIMarker®, COMarker



As a result of more than 15 years of research and discovery, GIA® has developed a scientific method of assessing and predicting the cut quality in round brilliant cut diamonds.

The most exciting and reassuring conclusion of GIA® research is that there is no single set of proportions that defines a well-cut round brilliant diamond. GIA® research has shown that many different proportions can produce attractive diamonds.

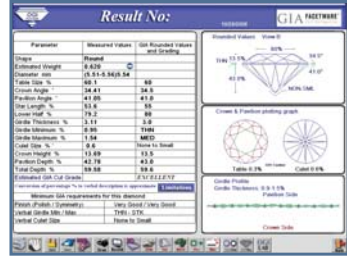
OGI Systems Ltd. products with GIA Facetware embedded will allow manufacturers, dealers, retailers and appraisers to predict a cut grade before their diamonds are sent to the GIA® Gem Laboratory for grading services.

Scanox or Megascope Graders use the GIA® cut grade system in order to obtain an estimated GIA® cut grade.

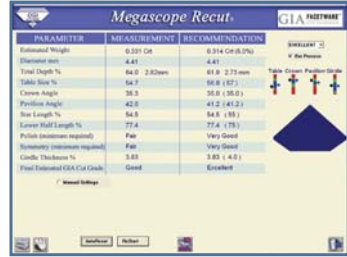
Scanox or Megascope Re-Cut recommend optimal Re-Cut options according to GIA® tables for minimum loss of stone weight.

The OGI Rough systems assist in planning rough diamond cutting in order to gain optimal yield from the rough diamond, according to GIA parameters. They also include a 3D virtual cutting process, an OGI Systems Ltd. patent.

### FacetPro Software



### FacetPro 3D Recut Software



### OGIRough Software



### Related products:

Scanox ( Proportion, Planner, Marker), Megascope, Megarough, OGI Marker®, OGI Tender®

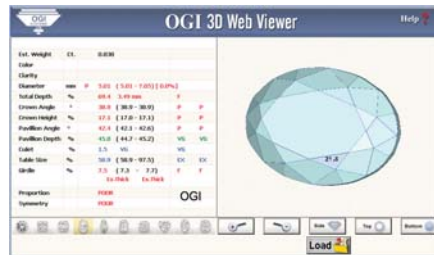
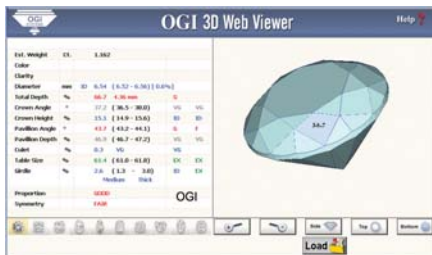
# OGI 3D WEB VIEWER

## The Simple Diamond Network

In the free-flowing Internet world of today, a diamond under examination must be displayed in a way that is as close as possible to real life. OGI Systems offers its clients an outstanding solution for this problem - the OGI Web Viewer program, which allows to view a diamond, using a laptop computer linked to the Internet.

### Advantages:

- Data files can be attached to the diamonds after sale
- Clients can communicate with the polishing factory without even leaving their chair
- This Virtual Reality software helps the clients feel closer to the vendor, even if they are in different countries
- This advanced technology saves precious time during the decision-making process



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FRIENDLY SYSTEMS - BRILLIANT RESULTS

OGI Systems Ltd.

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Tel: +1 2122444455  OGITECH Inc USA

Fax: +1 9175369964  usa@ogitech.com

## Belgium - OGI SYSTEMS EUROPE BVBA

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Fax: +32 34858889  ogibel@telenet.be

## South Africa - OGI Technologies

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Johannesburg, 2001, S. Africa

Tel: +27 113348719  africa@ogisystems.com

Fax: +27 866580242

## Hong Kong & CHINA - Top Vision Diamonds Ltd

Address: Room 1101, Workingberg Comm. Bldg

Marble Road No. 41-47, North Point, Hong Kong

Tel: +852 69597986, +86 13826127958

Fax: +86 2087576570  top\_vision\_hk@yahoo.com

## India

**Mumbai Agent: M/S Diamjewel Techniques (India) PVT.Ltd.**

Address: Office No.3 GND Floor, Shubham bldg,

Aakurli Road, Kandivali (east) Mumbai, India

Tel: +91 2232973931  india@ogisystems.com

Fax: +91 2228877510

**Surat Agent: M/S Parshva Enterprise**

Address: Office # 306, 3rd Floor, Abhushan Complex, Alkapuri Circle,

Opp. Veer Savarkar Udyan, Sumul Dairy Road, Surat, India

Tel: +91 2612484804  india@ogisystems.com



## Botswana - OGI SYSTEMS LTD

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## Japan

### SUZUHO CO.LTD


#### TOKYO HEAD OFFICE

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Tel: +81-3-6859-0085  info@suzuho.com  
Fax: +81-3-6859-0086  m-nagasawa@suzuho.com


### EIWA Trading Co. LTD

Address: 110-0005 ET BLD7 1F 5-3-7, UENO Taito-Ku, Tokyo, Japan  
Tel: +81 338363888  email@eiwa1.com  
Fax: +81 338363889


## Italy - GEMMARUM LAPIDATOR S.R.L.

Address: Via Unterberger 13, 38033 Cavalese (TN), Italy  
Tel: +39 0462342662  proietti@gemmarum.it  
Fax: +39 0462232959

## Russia – Laser Track

Address: Business-park "Rumjantsevo" Office No 701 "B"  
Kievskaya highway 142784 Moscow, Russia  
Tel: +7 495775 38 63  s\_pentegov@lasertrack.ru

## Vietnam - D.C Technology Company

Address: 56 Nghia Thuc St., 5 ward, 5 District, Ho Chi Minh City, Viet Nam.  
Tel: +84 838380482 Ext: 145  bttnga@vietnamjewelrytech.com  
Fax: +84 83924 1611

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## OGI Worldwide Diamond Inscription Service

Link to: [www.ogisystems.com/service/worldwide.html](http://www.ogisystems.com/service/worldwide.html)

OGI Systems equipment is compatible with standard PC requirements, as detailed below:

**PC Minimum Requirements:**

**USB Systems:**

- Quad
- Motherboard: GIGABYTE or Asus *(recommended)*
- CPU: Intel Quad CORE2DU Q8300
- Memory: 2GB RAM 2DDR2 Dual-CH, 2GB
- HD: 160 GB HDD SATA 7200
- Display Adaptor: 512MB (GeForce GT)
- 4 Available USB Ports
- DVD ROM Drive
- Compatible Mouse & Keyboard
- 17" Screen with 1280x1024 resolution

**USB Laser Systems:**

- I5
- Motherboard: GIGABYTE P55-UD3L *(recommended)*
- CPU: I5 760, 2.8 GHZ
- Memory: 2GB RAM Dual-CH, 2GB
- HD: 320 GB HDD SATA
- Display Adaptor: 512MB (GeForce GT)
- 4 Available USB Ports
- DVD ROM Drive
- Compatible Mouse & Keyboard
- 17" Screen with 1280x1024 resolution

**Laptop Minimum Requirements:**

- Intel® Intel Core 2 Duo 2GHz; or I3 i5 family
- Hard Disk 160 Up to 500 GB
- Intel® Graphics Media Accelerator 950/ GeForce/ ATI;
- Screen Resolution 1024x768
- Memory (RAM) 2GB up 3GB
- 3 USB 2.0 Ports;
- DVD ROM Drive.
- Windows® XP Professional Edition
- Windows® XP Professional Edition
- Windows® Win7 32-Bit Family:
- Home Premium, Professional & Ultimate

**Required Operating Systems:**

- Windows® XP Professional Edition; 32bit
- Windows® XP Professional Edition; 32bit
- Windows® Vista Business 32-Bit Capable;
- Windows® Win7 32-Bit Family:
- Home Premium, Professional & Ultimate

Changes and updates may occasionally take place in the operating systems; therefore we recommend that you get updated on our Internet site:

[http://ogisystems.com/comp\\_requir.html](http://ogisystems.com/comp_requir.html)

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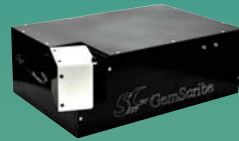
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