

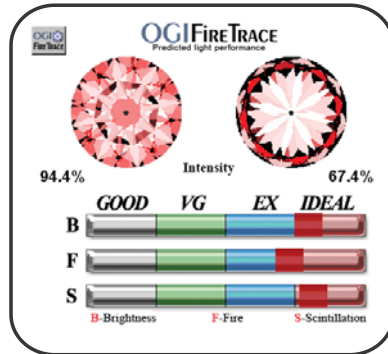
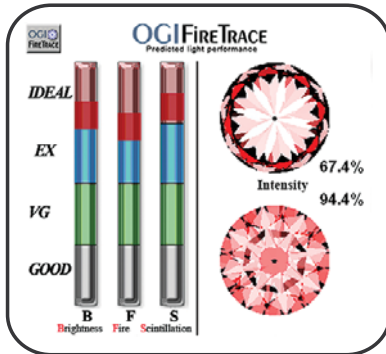
# MEGAFire

## 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



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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.

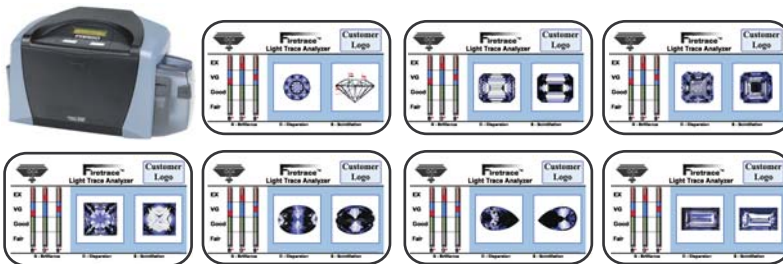
**Fire:** Describes the fiery rainbow color-flashes emanating from the diamond. This is white light broken up into the colors of the spectrum.

**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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