

Up-Grading the GIA Diamond Lite



This is a SUPER EASY 10-Minute Up-Grade

Parts and pieces you will need for the Up-Grade:

Self-Adhesive Velcro Strips 3/4-Inch Wide x 3-Inches Long ---Available at Office Depot or Office Max

8-Inch x 10-Inch x 1/10th-Inch Thick Lexan Polycarbonate Sheet --- Available at Home Depot

Total Cost for Retro-Fit, Up-Grade less than \$10.00



Yes that is a 1969 Dodge Charger R/T Hot Wheels Car and my Cinco de Mayo Rescue Duck on top of Diamond Grading Light.

I cut and trimmed the Lexan Sheet to fit up under the top of my light

I then attached Velcro so that it holds it in place and I can also quickly take the Lexan U.V. Filter off and grade stones without the filter.

Caution WARNING!!!

Polycarbonate MUST BE USED!!! ASK FOR LEXAN Polycarbonate!!!

Plexiglas or any other type of plastic or acrylic WILL NOT WORK!!!!



The Old Bulbs were called Verilux GEM and they are no longer made or available

Important Notice:

Your Diamond Grading Light Environment should be listed and fully described and disclosed within your appraisal report. Especially if you are grading diamonds WITH or WITHOUT a U.V. Blocking Filter.

New bulbs are Philips F6T5/D Hg 6-Watt made in Poland
Color Temperature 6500Kelvin
Lexan U.V. Blocking Filter in Place

Height from Diamonds to light 3 3/4"
Directly above both lights
Diamonds Tilted at approximately 40 degree angle

3x Opti-Visor is also used during the Color Grading Process
7" Working / Focus Distance from eyes to diamonds

I also list the Color Grade and the Fluorescence either on the same line or directly underneath the color grade because Fluorescence has a direct effect associated with the color grade of a diamond and should be treated as such.



Fully Enclosed and Shielded UV Light Viewing Box with a Dual Long Wave and Short Wave U.V. Light Source.

Once more I fully list my equipment with model numbers, serial numbers, wattage, power output and other important information. Sometimes I have it listed it in my Lab Equipment List area and also list other items and information within the appraisal report.

My personal and professional opinion is that all diamonds should be graded for Fluorescence ONLY inside a fully enclosed and shielded viewing box and both Long Wave and Short Wave Reaction should be noted in your report right next to or right underneath the Color Grade of the Diamond. It is that important!



This is a stone tray I have in the bottom of my viewing cabinet with known test stones

This allows me to instantly know that both of my U.V. Lights are functioning and working properly.

The big blue stone is a Synthetic Blue Spinel so it glows a Strong Chalky Bluish Greenish color under Short Wave and the Big Red Stone is a Synthetic Flame-Fusion Ruby and Glows Bright Red under Long Wave and Glows a duller Red under Shortwave.

An old Urban Legend goes that a Famous Diamond Grading Lab graded Fluorescence using a burned out U.V. Bulb for some time before someone finally noticed that it really wasn't working. True or not doesn't matter.

What matters is that YOU take certain measures to insure your equipment is operating and functioning properly.



The tray and stones set in place in the center of the box so that each and every time I use either light I can visually see that the lights are working and functioning properly.

This was a quick and easy Up-Grade for under \$10.00 and YOU can now be once more on the Cutting Edge and be ahead of everyone else in your area.