Gemology Equipment

For Review

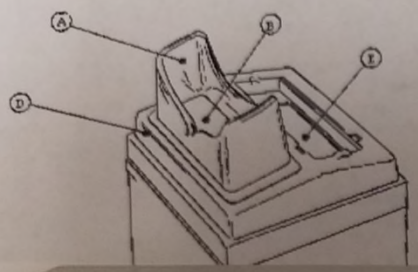

Gemological Institute of America
Major World Gem Producing Regions
Photo Masters in Diamond Grading
FireWire 3-P


Major World Gem Producing Areas
Photo Masters for Diamond Grading
FireWire 3-Po

Short Wave & Long Wave UV Cabinet

MODEL C-10 SERIES

CHROMATO-VUE® CABINET



1. Lift fle
Chec
3. Slip fl
portio
4. Place
Your
placing
out any e

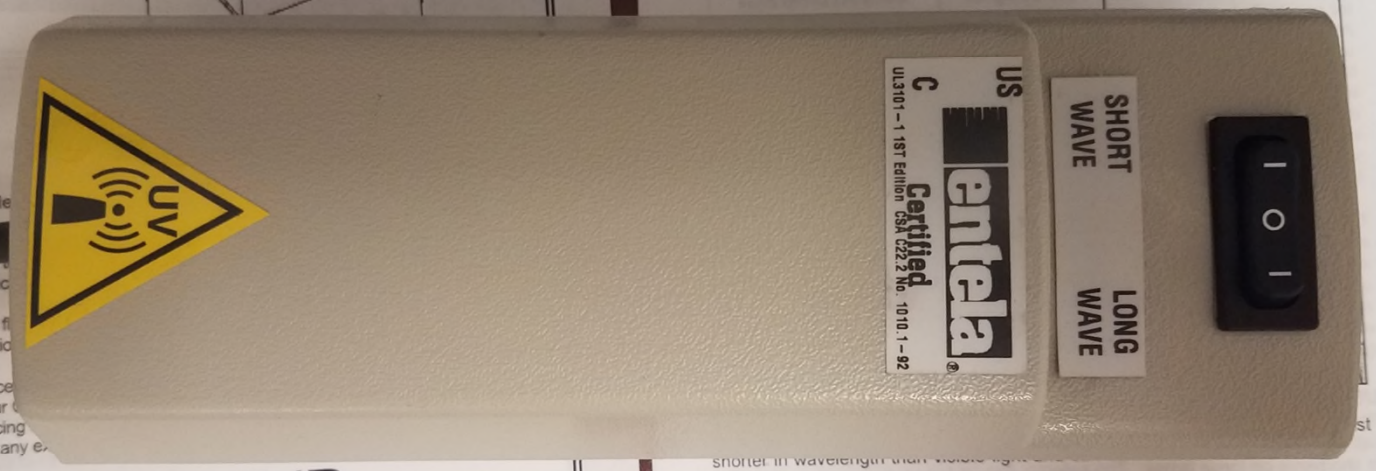
UVP

UVP INC
2066 W. 11TH STREET
UPLAND, CA 91786

malfunction occurs during the warranty period, UVP shall examine the inoperative equipment and have the option of repairing or replacing any part(s) which, in the judgment of UVP, were originally defective or became so under conditions of normal usage and service.

No warranty shall apply to any instrument, or part thereof, that has been subject to accident, negligence, alteration, abuse or misuse by the end-user. Moreover, UVP makes no warranties whatsoever with respect to parts not supplied by UVP or that

Compact & Handheld Ultraviolet Lamps OPERATING INSTRUCTIONS



shorter in wavelength than visible light

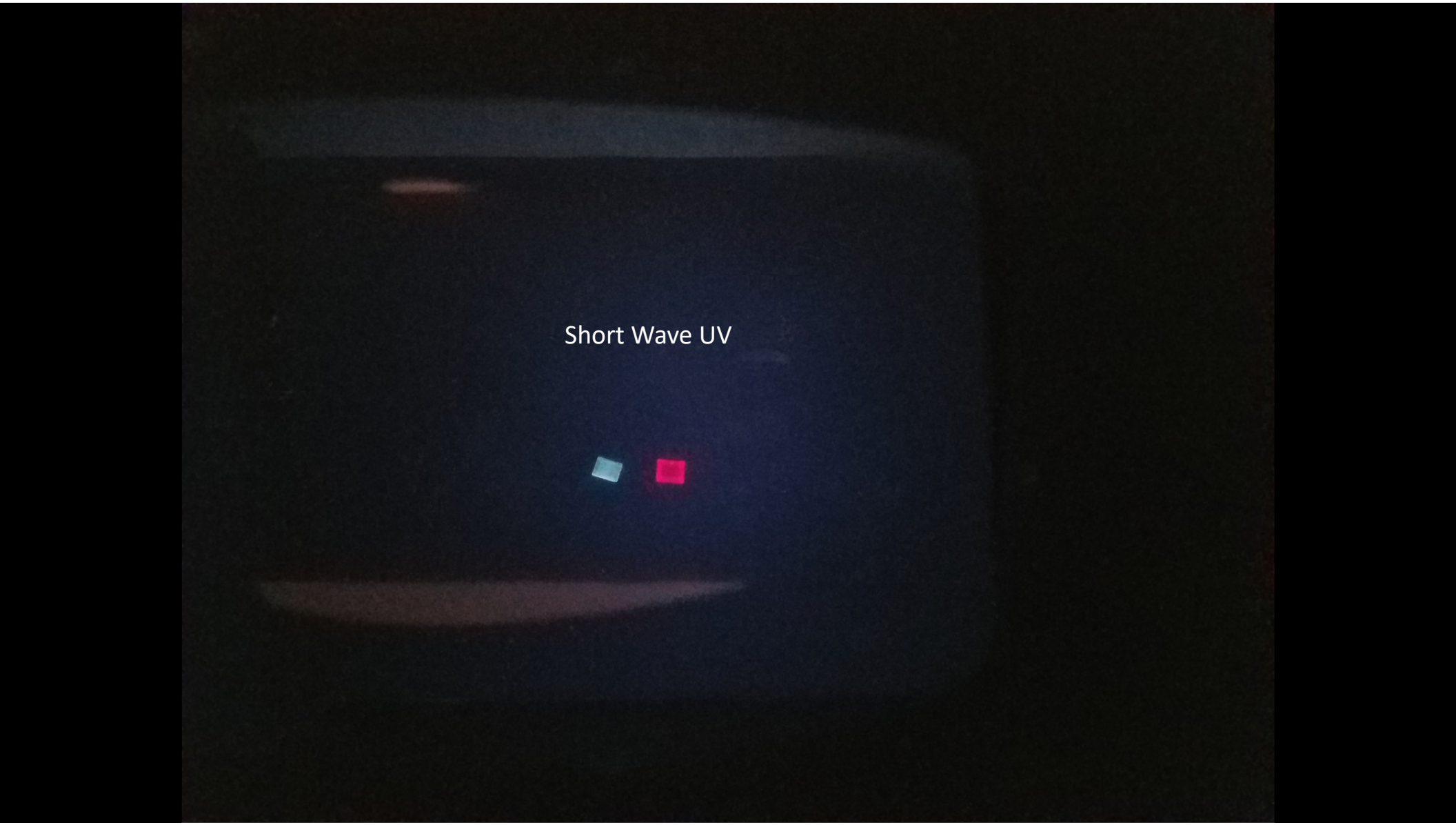
Longwave ... The ultraviolet energy nearest to the visible light range (commonly called black light), activates fluorescence in numerous natural substances and manufactured materials.

Midrange ... The ultraviolet energy representing the shortest wavelengths found in sunlight, causing sunburn and used to fluoresce certain substances more effectively than shortwave or longwave ultraviolet light.

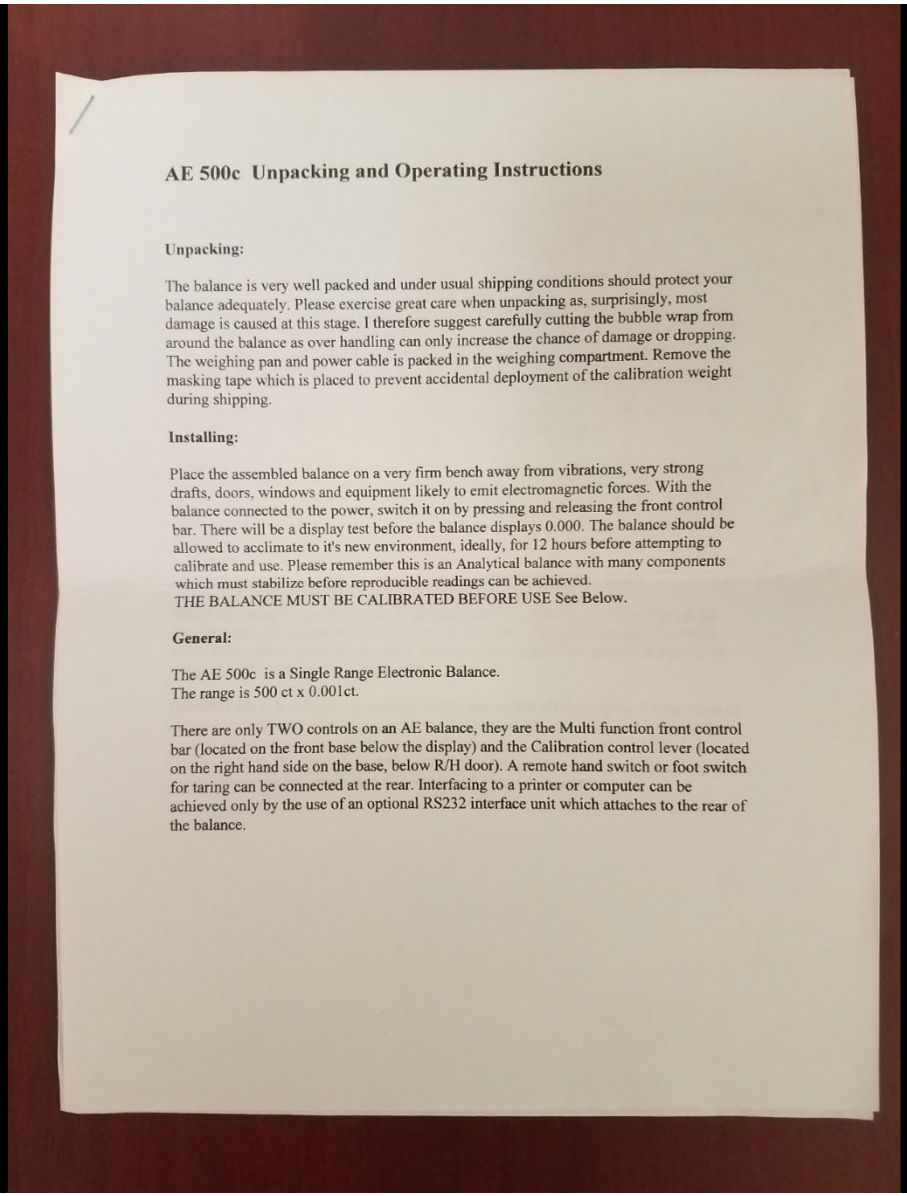
Shortwave ... The ultraviolet energy farthest from visible light, shorter than rays in sunlight, and primarily noted for its ability to fluoresce minerals for chemical analysis, and for its germicidal effects.

For information on ultraviolet lamp applications, refer to UVP's web site:
Click on Application Bulletins


Long Wave UV


Short Wave UV

Mettler AE 500 ct Scale



AE 500c Unpacking and Operating Instructions

Unpacking:

The balance is very well packed and under usual shipping conditions should protect your balance adequately. Please exercise great care when unpacking as, surprisingly, most damage is caused at this stage. I therefore suggest carefully cutting the bubble wrap from around the balance as over handling can only increase the chance of damage or dropping. The weighing pan and power cable is packed in the weighing compartment. Remove the masking tape which is placed to prevent accidental deployment of the calibration weight during shipping.

Installing:

Place the assembled balance on a very firm bench away from vibrations, very strong drafts, doors, windows and equipment likely to emit electromagnetic forces. With the balance connected to the power, switch it on by pressing and releasing the front control bar. There will be a display test before the balance displays 0.000. The balance should be allowed to acclimate to it's new environment, ideally, for 12 hours before attempting to calibrate and use. Please remember this is an Analytical balance with many components which must stabilize before reproducible readings can be achieved.
THE BALANCE MUST BE CALIBRATED BEFORE USE See Below.

General:

The AE 500c is a Single Range Electronic Balance.
The range is 500 ct x 0.001ct.

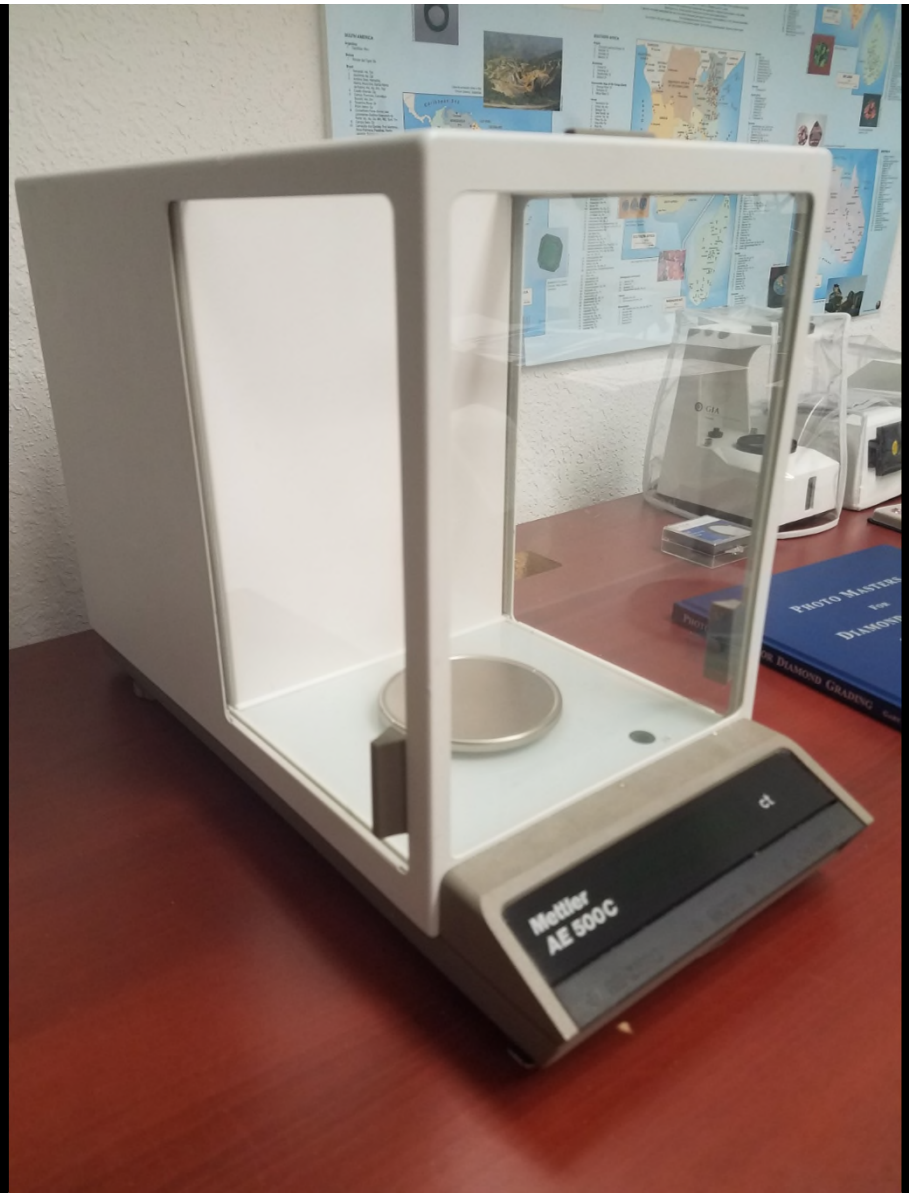
There are only TWO controls on an AE balance, they are the Multi function front control bar (located on the front base below the display) and the Calibration control lever (located on the right hand side on the base, below R/H door). A remote hand switch or foot switch for taring can be connected at the rear. Interfacing to a printer or computer can be achieved only by the use of an optional RS232 interface unit which attaches to the rear of the balance.


Mettler
AE 500C
0.000
ct
RE-ZERO
MODE
ON/OFF

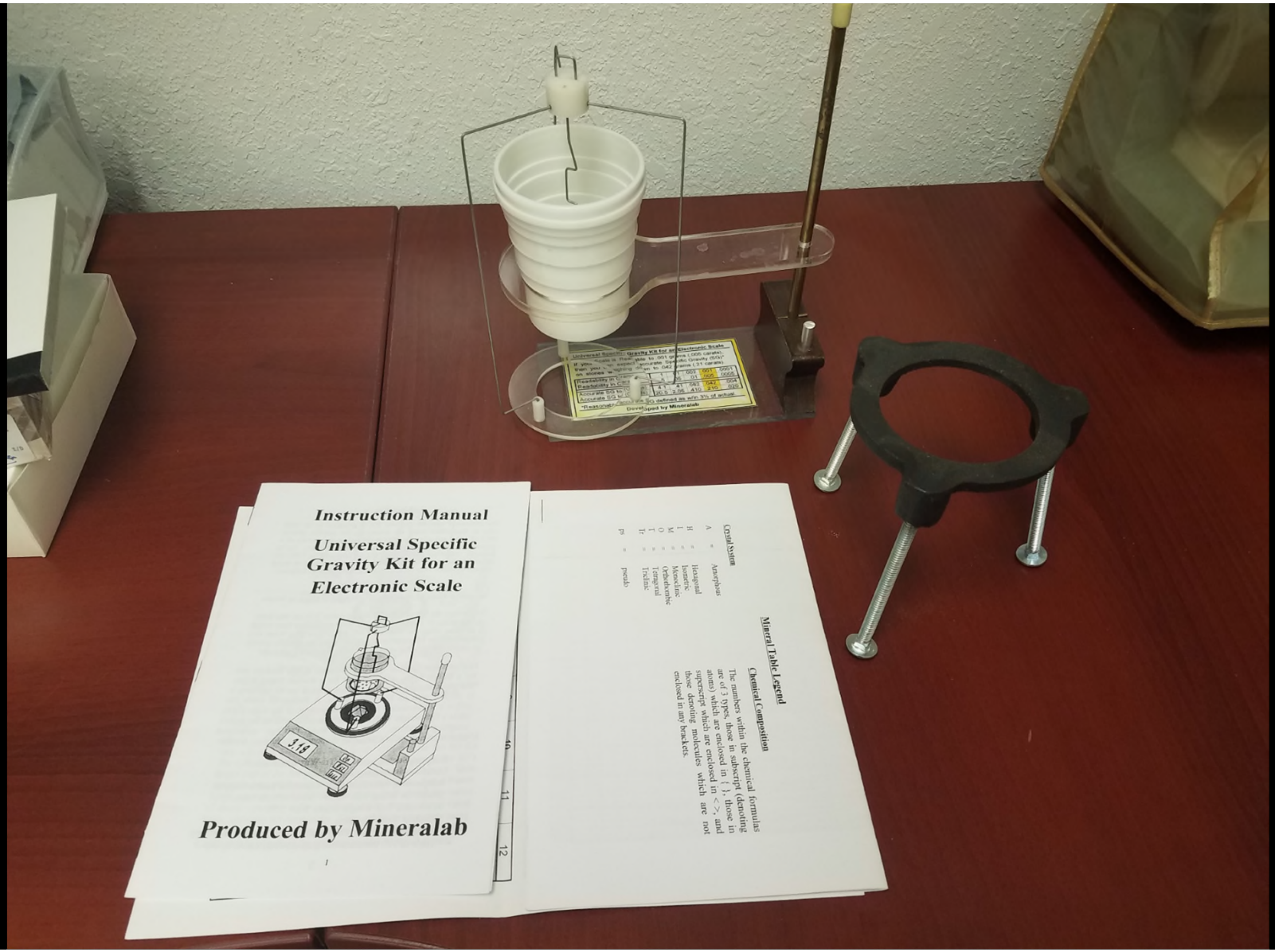
Scale Shown With Removable Custom Specific Gravity Option. A MUST for any Serious Gemologist.

Mettler
Mettler
AE 50

Shown With Specific Gravity Accessory Removed


Mettler
AE 500C


Instruction Manual
Universal Specific Gravity Kit for an Electronic Scale
Produced by Mineralab
Mineral Tables
furnished by
Mineralab
A database of 300 Minerals sorted by Specific Gravity, along with seven other characteristics, including Mohs' Hardness, Refractive Index, Color, Streak, Luster, Crystal System, and Chemical Composition



Instruction Manual

Universal Specific Gravity Kit for an Electronic Scale

Produced by Mineralab

Mineral Table Legend

Chemical Composition

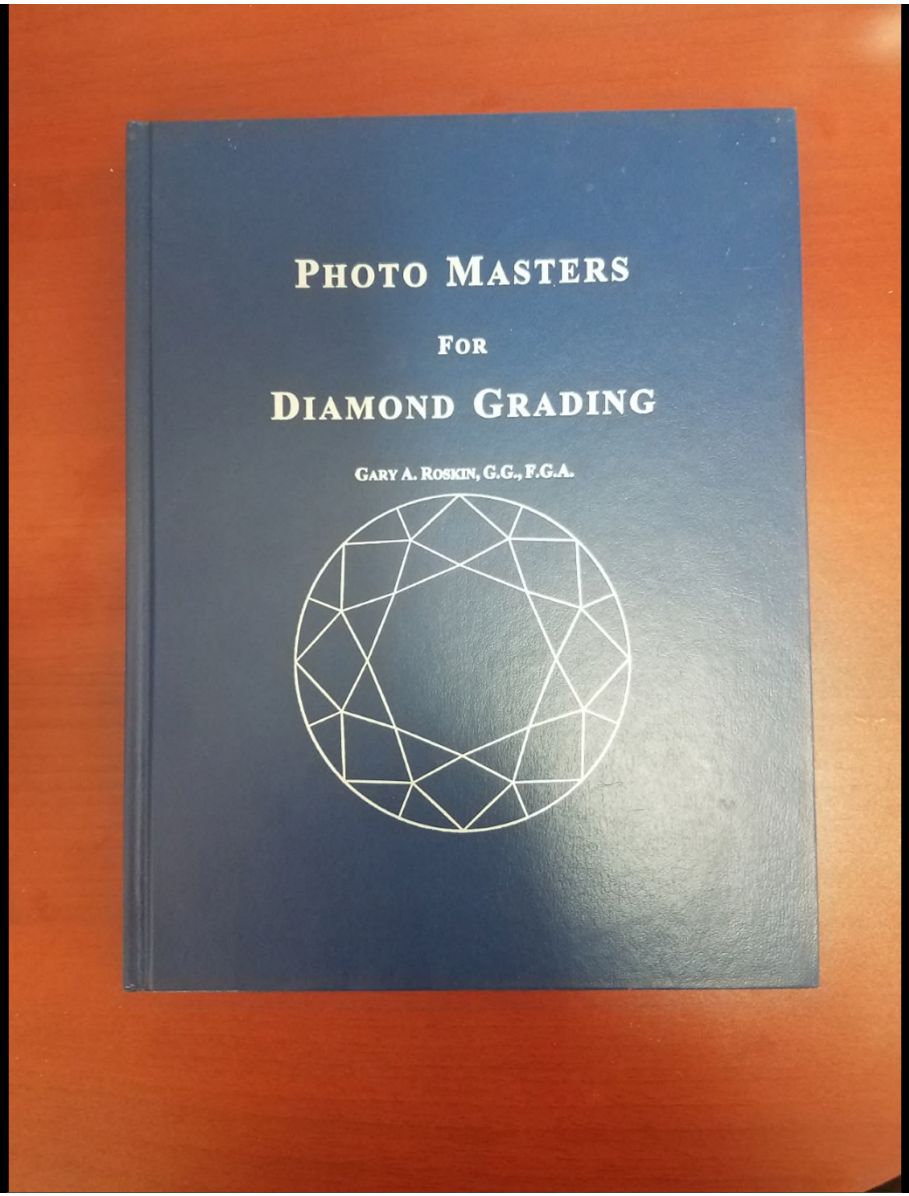
The numbers within the chemical formulas are of 3 types, those in subscript (denoting atoms) which are enclosed in ( ), those in superscript which are enclosed in < >, and those denoting molecules which are not enclosed in any brackets.

Crystal System

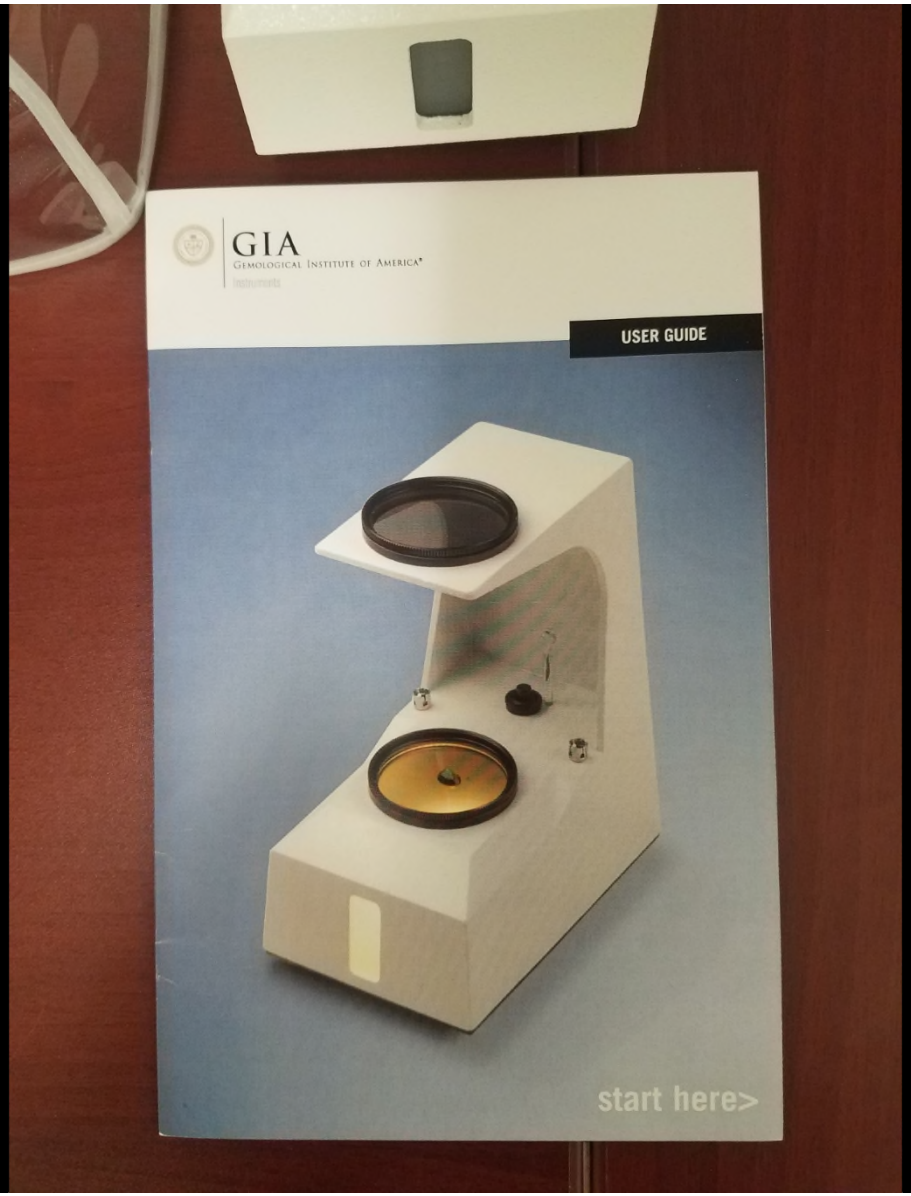
A = Amorphous
H = Hexagonal
I = Isometric
M = Monoclinic
O = Orthorhombic
T = Tetragonal
Tr = Trigonal
Tc = Triclinic

ps = pseudo

A Brand New Copy of Photo Masters for Diamond Grading by Gary Roskin. Sadly, he never got the chance to use it.



GIA Gem Instruments Polariscope with Original Dust Cover and Paperwork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start here>


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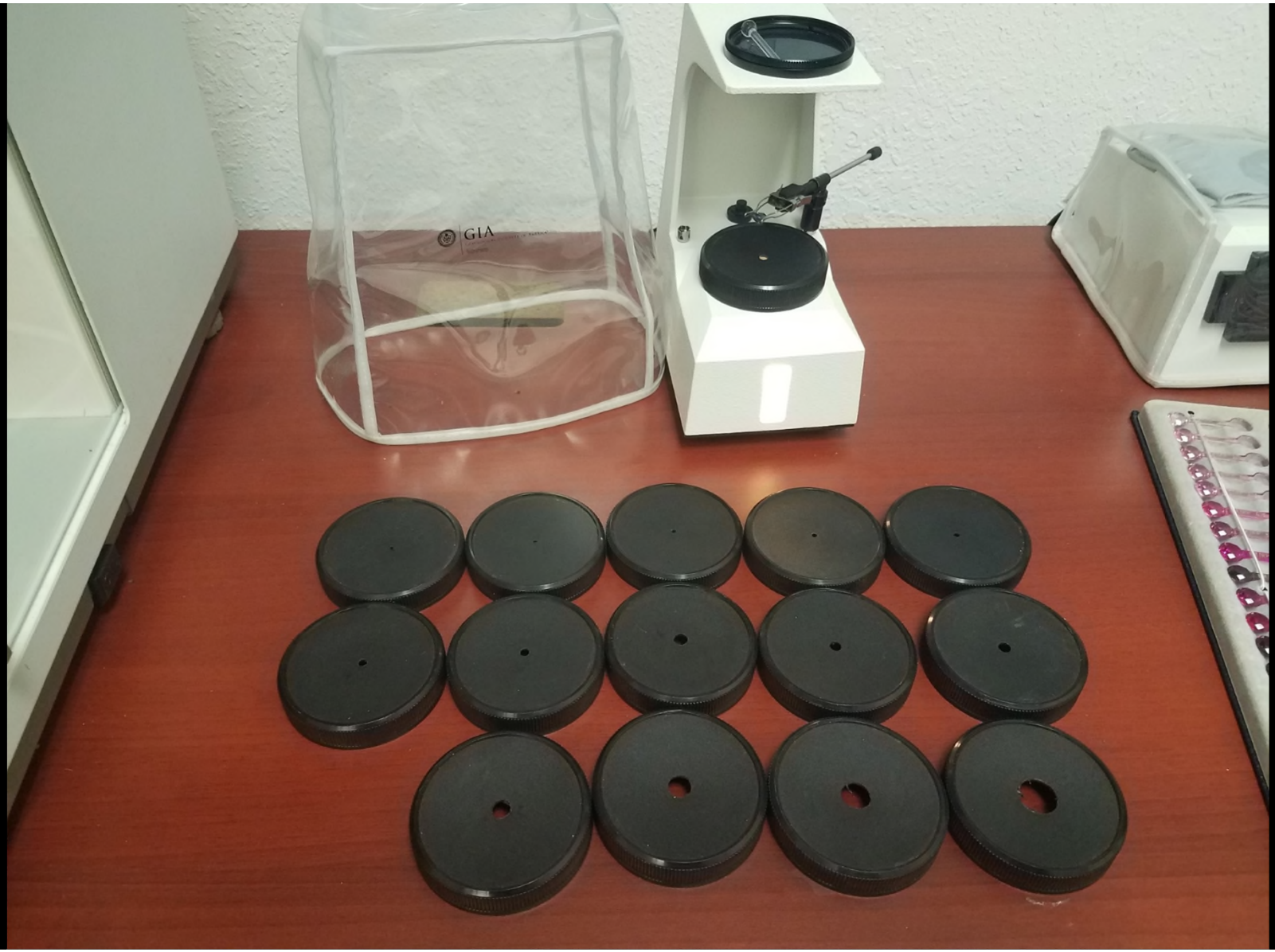
Instruments


GIA


Always pays to have an extra on hand

GIA Gem Instruments Utility Lamp

Use one of these with the refractometer and you will be amazed. Highly coveted and no longer available.


GIA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Gem Instruments

GIA Gem Instruments Duplex II Refractometer with Original Dust Cover and Paperwork


GEM
INSTRUMENTS
SANTA MONICA
U.S.A.
DUPLEX II
REFRACTOMETER


GEM USA
GEMSTONE R. I. VAR. BIRE.
LOW ZIRCON ..... 1.81-1.815 ±.020 .002 .003
SPESSARTITE .... 1.81 ±.010 S. R.
ALMANDITE ..... 1.80 +.030 −.040 S. R.
CORUNDUM ..... 1.762-1.770 +.007 −.003 .008
SYN. CORUNDUM . 1.762-1.770 .008
RHODOLITE ..... 1.760 ±.010 S. R.
PYROPE ..... 1.746 +.010 −.026 S. R.
CHRYSOBERYL ... 1.746-1.755 ±.004 .009
GROSSULARITE .. 1.735 +.015 −.035 S. R.
SYN. SPINEL ..... 1.73 ±.010 S. R.
SPINEL ..... 1.718 +.044 −.006 S. R.
GEMSTONE R. I. VAR. BIRE.
IDOCRASE ..... 1.713-1.718 ±.014 VAR.
ZOISITE ..... 1.691-1.704 ±.003 .013
DIOPSIDE ..... 1.675-1.701 +.029 −.007 .026
JADEITE ..... 1.654-1.667 USUALLY 1.66
JET ..... 1.66 ±.020 S. R.
PERIDOT ..... 1.654-1.690 ±.020 .036
SPODUMENE ..... 1.660-1.676 ±.005 .016
MALACHITE ..... 1.660-1.910 .250
ENSTATITE ..... 1.658-1.668 ±.005 .010
CORAL ..... 1.486-1.658 .172
PEARL-SHELL .... 1.530-1.686 .156


DIAMOND · HEMATITE · SYNTHETIC RUTILE · STRONTIUM TITANATE
ZIRCON (MEDIUM-HIGH) · ANDRADITE · SYNTHETIC GARNET
ABOVE LIMIT OF REFRACTOMETER
GEMSTONE R. I. VAR. BIRE.
TOURMALINE .... 1.624-1.644 ±.005 .020
TOPAZ ..... 1.619-1.627 ±.010 .008
TURQUOIS 1.610-1.650
NEPHRITE 1.606-1.632
BERYL ..... 1.577-1.583 ±.016 .006 .009
SYN. EMERALD:
(OVERGROWTH)...1.575-1.581 .006
(HYDROTHERMAL). 1.568-1.573 ±.002
(FLUX-FUSION) .. 1.561-1.564 .003
SERPENTINE .... 1.56-1.57 -.07
LABRADORITE ... 1.559-1.568 .009
QUARTZ ..... 1.544-1.553 .009
GEMSTONE R. I. VAR. BIRE.
AMBER ..... 1.54 S. R.
CHALCEDONY 1.535-1.539
MICROCLINE ..... 1.522-1.530 .008
ORTHOCLASE ..... 1.518-1.526 .008
OLIGOCLASE ..... 1.532-1.542 ±.007 .010
LAPIS-LAZULI .... 1.50 S. R.
SODALITE ..... 1.483 ±.003 S. R.
OPAL ..... 1.45 +.020 -.080 S. R.
GLASS-PLASTICS.. 1.48 TO 1.70 (USUAL)
ASSEMBLED STONES . VARIABLE

Shown here with the GIA Gem Instruments Utility Lamp.

The glass is coated with petroleum jelly to protect it while not in use.


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DUPLEX II
REFRACTOMETER
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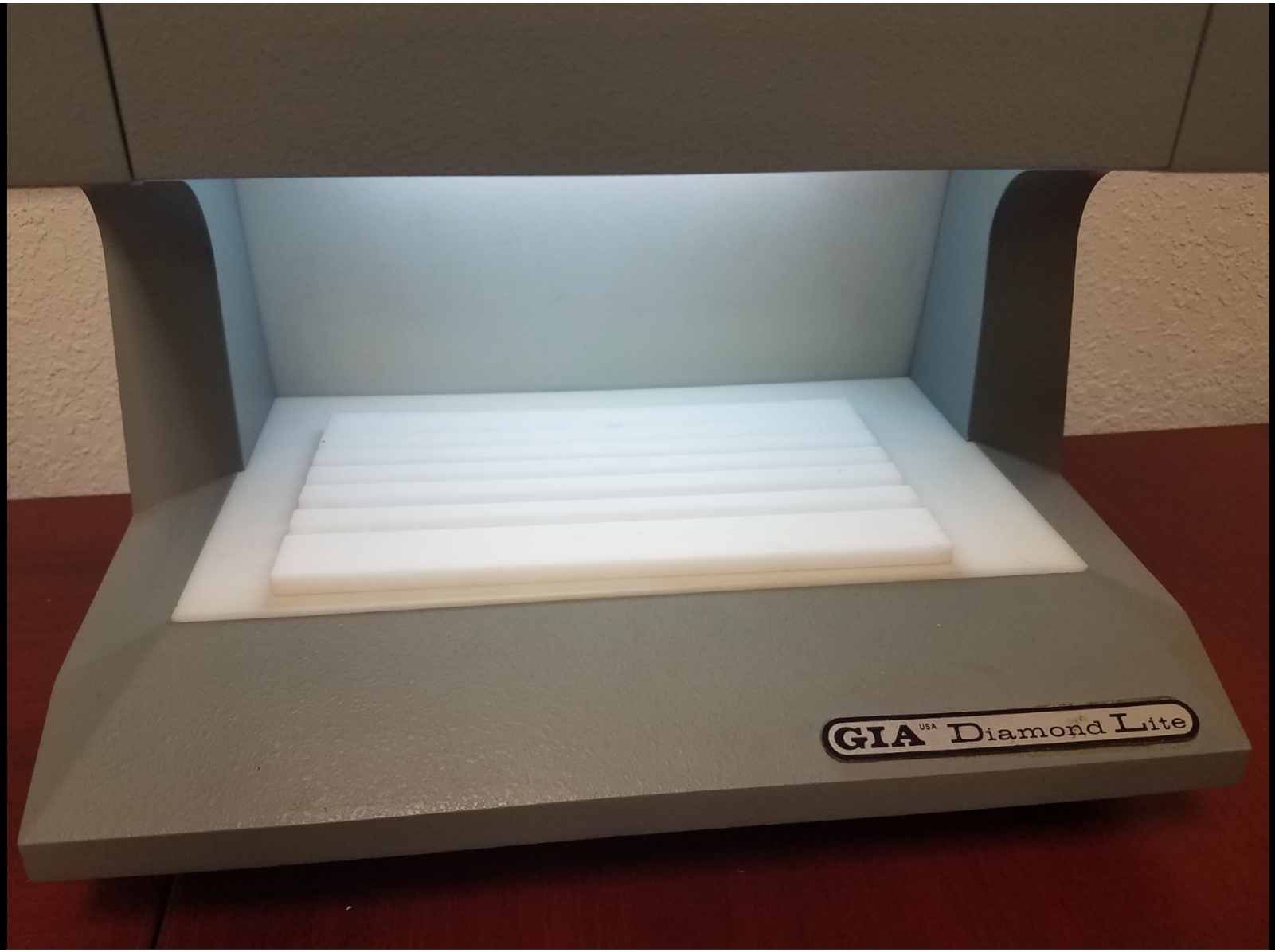
GIA Gem Instruments Polarizing Filter 396000

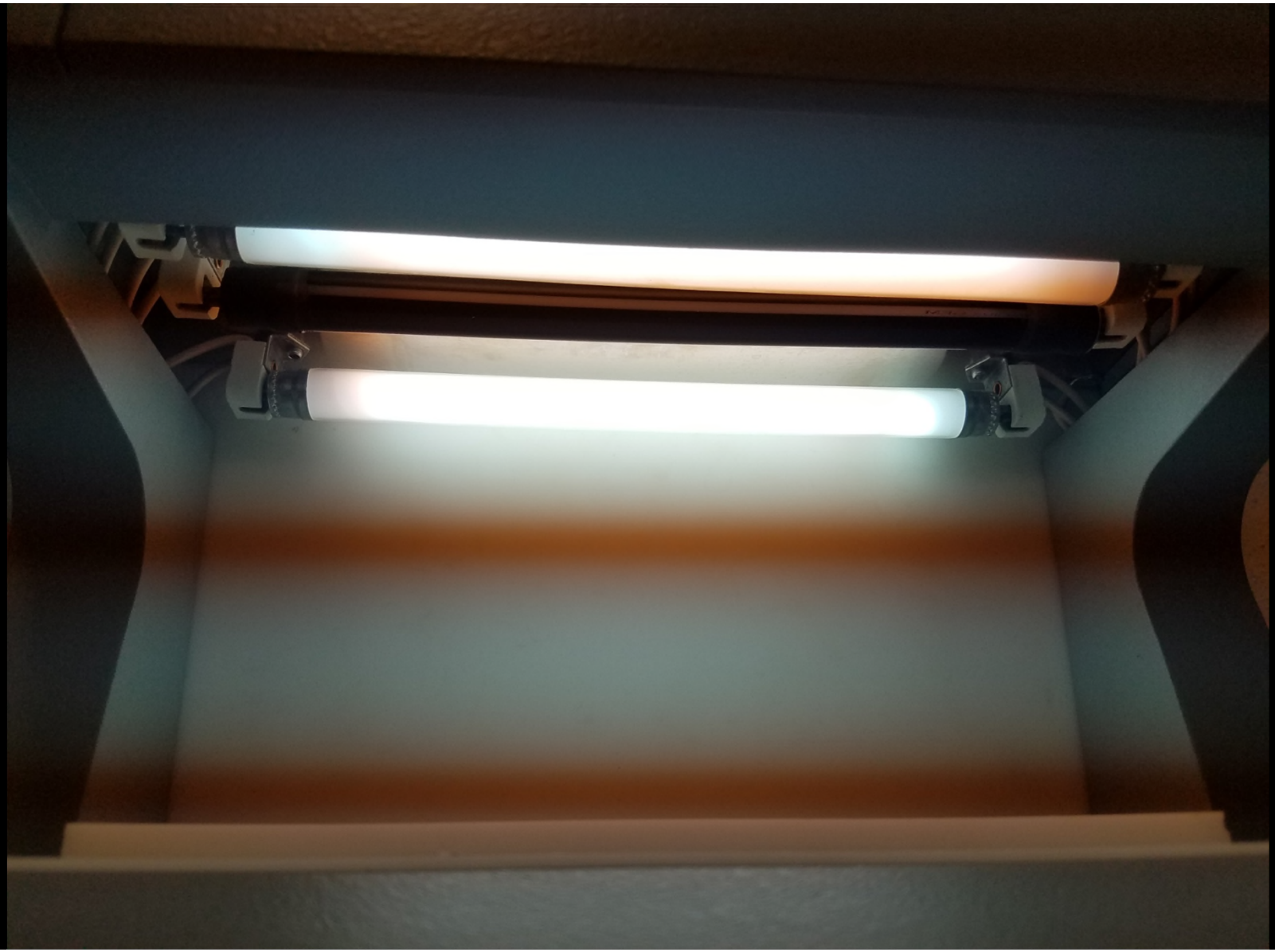

SOUTH AMERICA
SOUTHERN AFRICA
MADAGASCAR
AUSTRALIA
Pacific Ocean
Atlantic Ocean
Indian Ocean
GEM
DUPLEX II
REFRACTOMETER
GIA

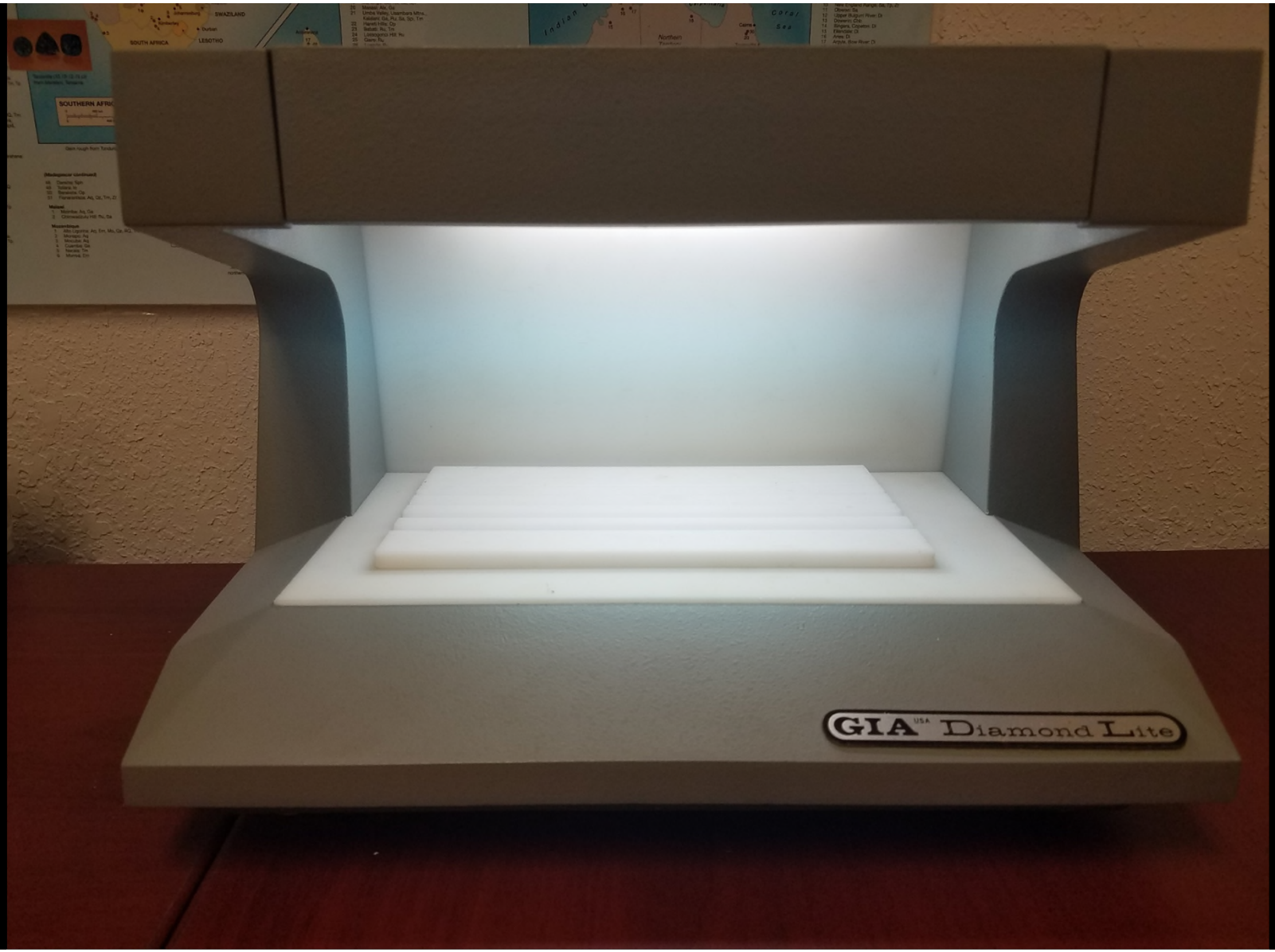
GIA Gem Instruments Diamond Lite


GEM
INSTRUMENTS
SANTA MONICA
U.S.A.


GIA USA Diamond Lite


GIA USA Diamond Lite




GIA USA Diamond Lite

Ellin's Very high quality CZ Master Set for diamond grading, which even has by special order, the M Stone that isn't included in the sets.

GIA Gem Instruments Fiber Lite

If you have never used one, it's the gold standard. This light is the secret to getting good reading with even a cheap spectroscope.

Sadly, like most of the Gem Instruments Line, it has been discontinued.


FIBER LITE
PWR
ON
GEM
GEM INSTRUMENTS CORPORATION

GIA Gem Instruments pocket Darkfield Loupe. A must if you're buying loose stones outside your lab.

Luminex
2 AA MAG INSTRUMENTS

GIA Gem Instruments Chelsea Color Filter 469000

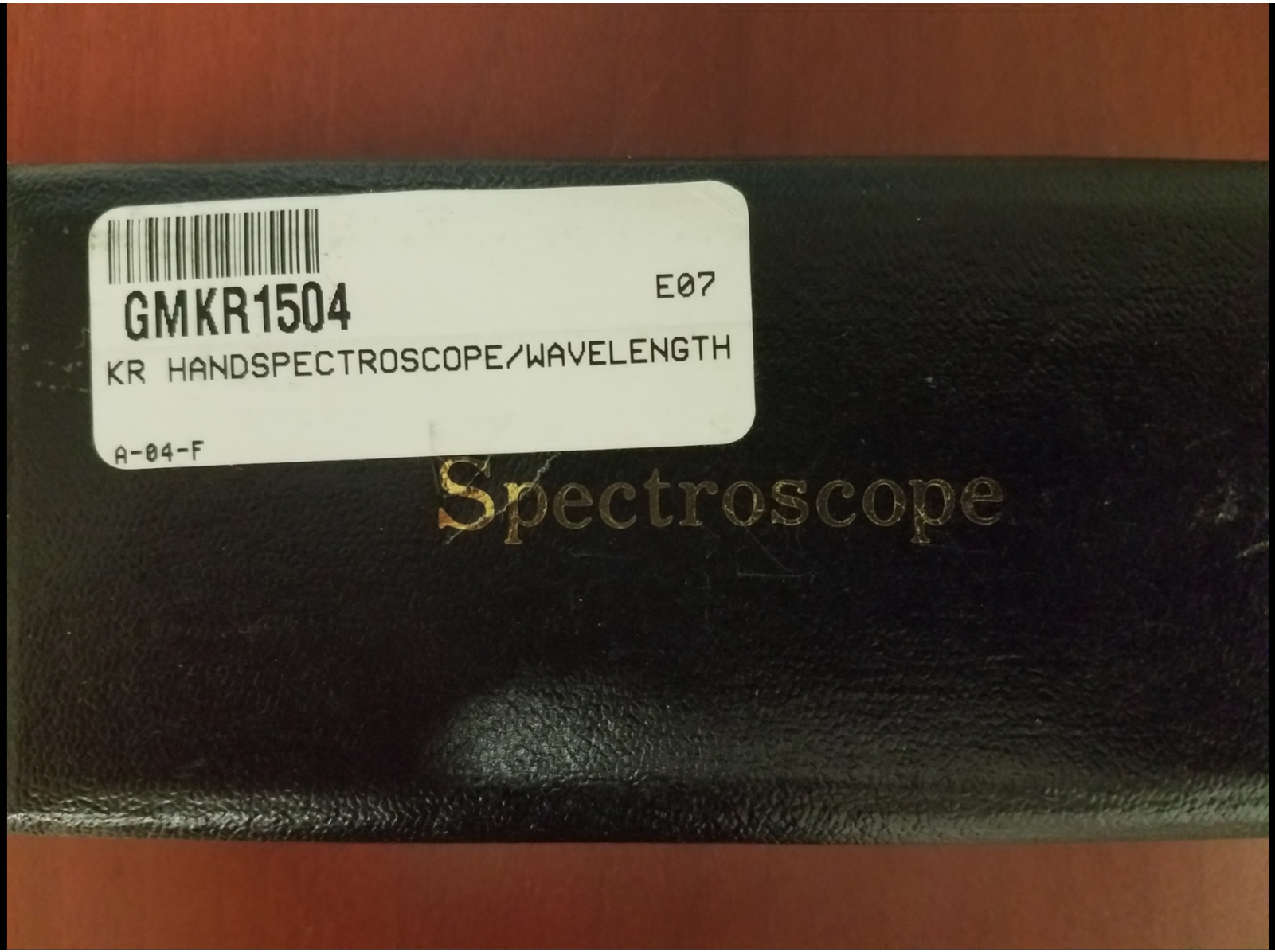
GIA Gem Instruments
Calcite Dichroscope
427000

GIA Gem Instruments Spectroscope

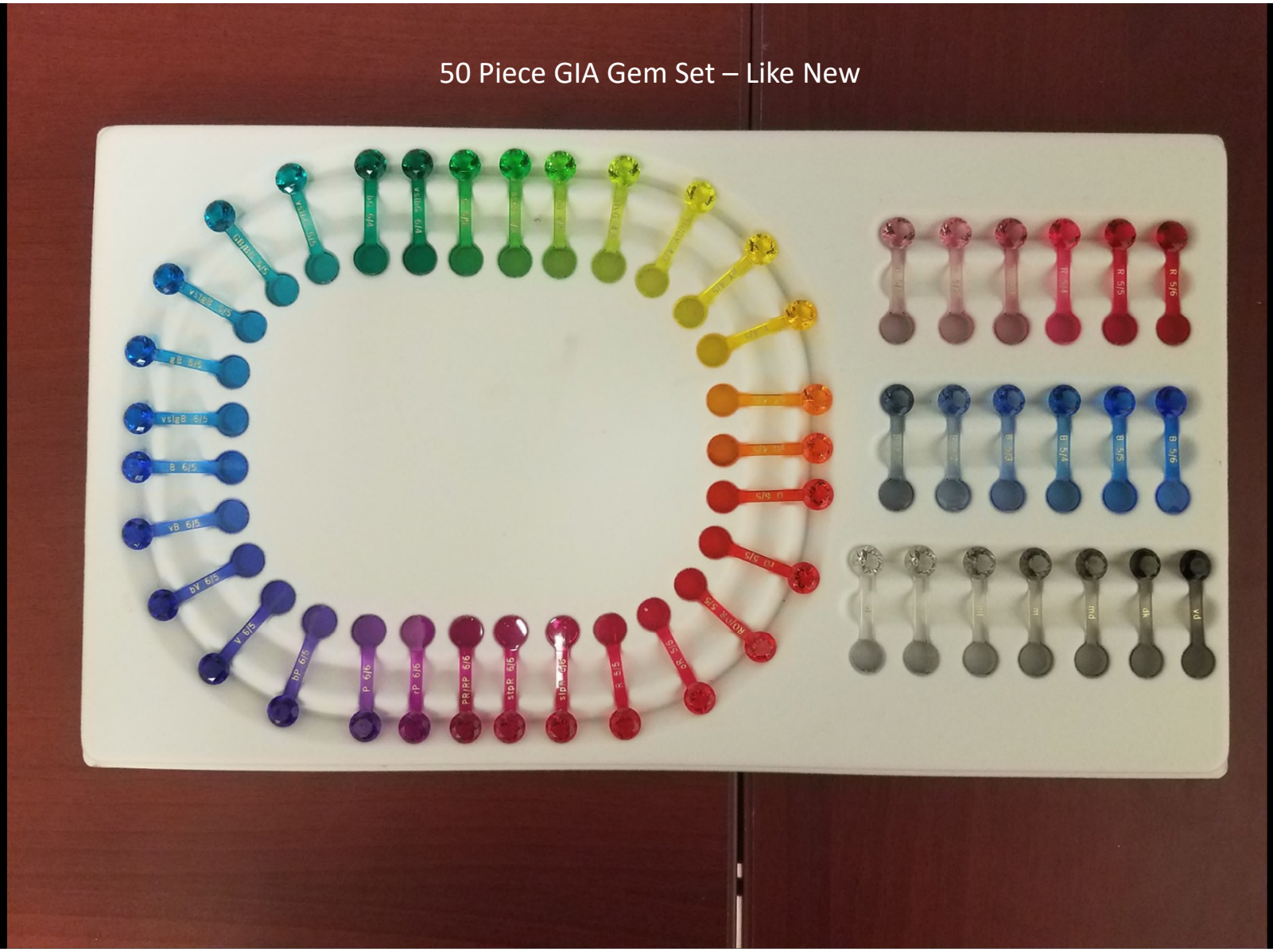
Large OPL Desktop Model Spectroscope with Desktop Stand and Colin Winter's Book.

This with the GIA Fiber Lite makes an amazing combination.

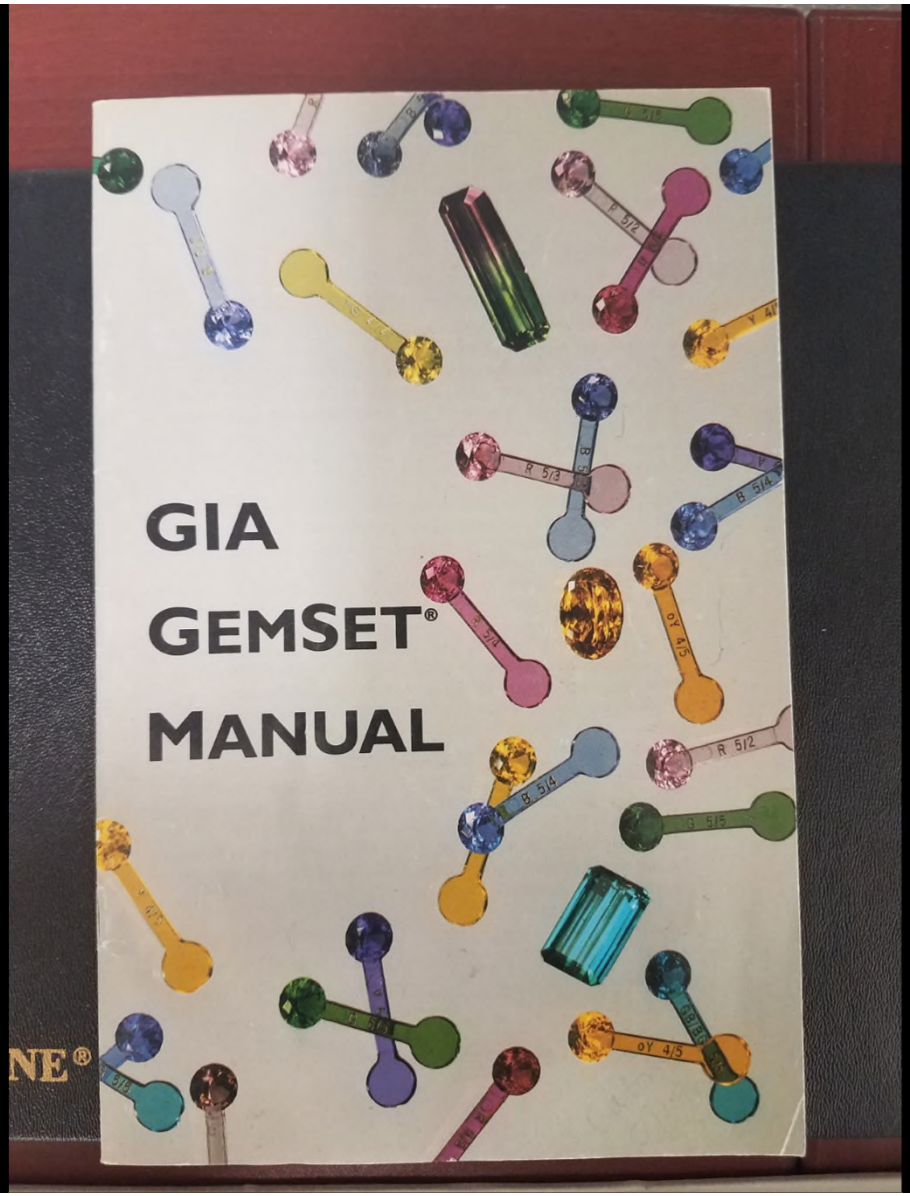
Kruss prism Spectroscope to find those hard to see markers that can be elusive in defraction grating style scopes


GMKR1504
E07
KR HANDSPECTROSCOPE/WAVELENGTH
A-04-F
Spectroscope

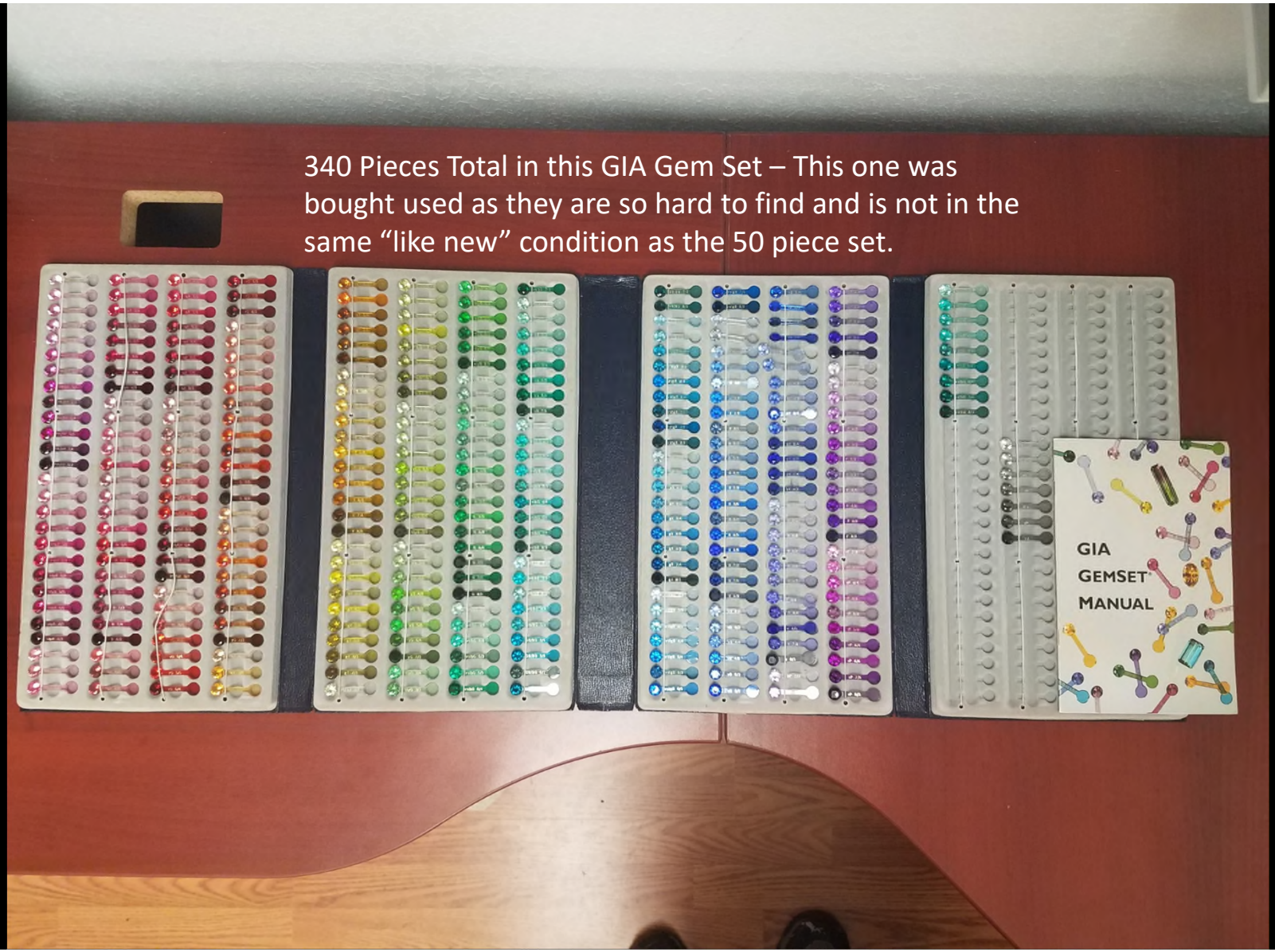
50 Piece GIA Gem Set – Like New

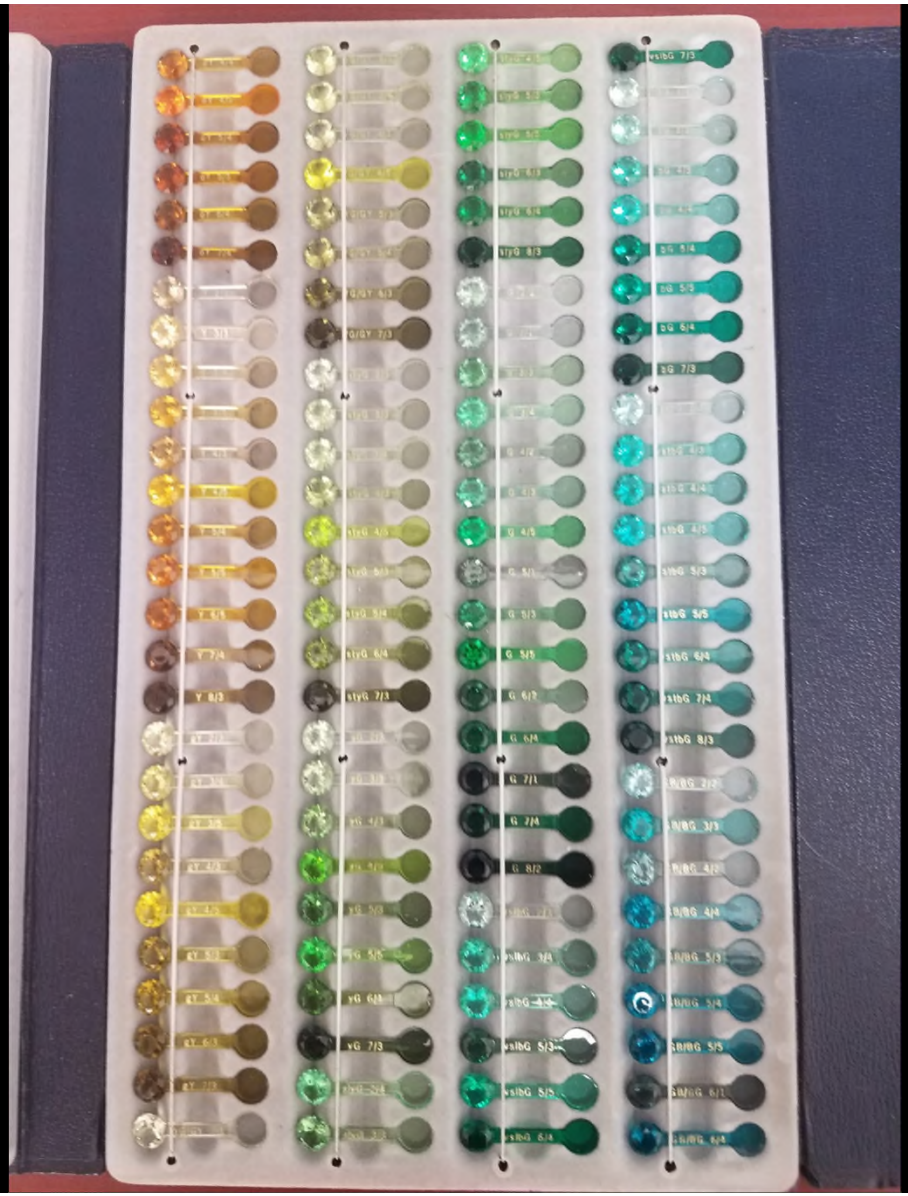



PANTONE®
GIA
GemSet®


GIA
GEMSET®
MANUAL

Please retain this "map" for future reference
GIA GemSet Hue Wheel


340 Pieces Total in this GIA Gem Set – This one was bought used as they are so hard to find and is not in the same “like new” condition as the 50 piece set.
GIA
GEMSET
MANUAL




vstgB 7/5
vstgB 8/3
vstgB 7/4
vstgB 7/2
vstgB 6/4
vstgB 6/3
vstgB 5/4
vstgB 5/3
vstgB 4/4
vstgB 4/3
vstgB 3/4
vstgB 3/3
vstgB 2/4
vstgB 2/3
gB 5/2
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gB 7/4
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B 5/5
B 5/6
B 6/2
B 6/3
B 7/2
B 7/4
vB 4/4
vB 4/6
vB 5/5
vB 5/4
bV 4/3
bV 4/5
bV 5/4
bV 5/5
bV 6/4
bV 6/5
bV 7/4
bV 8/3
V 3/2
V 4/3
V 4/5
V 5/2
V 5/6
V 6/4
V 6/5
V 7/4
V 8/1
bP 6/3
bP 6/5
bP 7/4
P 4/5
P 5/5
P 5/6
P 6/3
P 6/4
P 6/5
P 6/6
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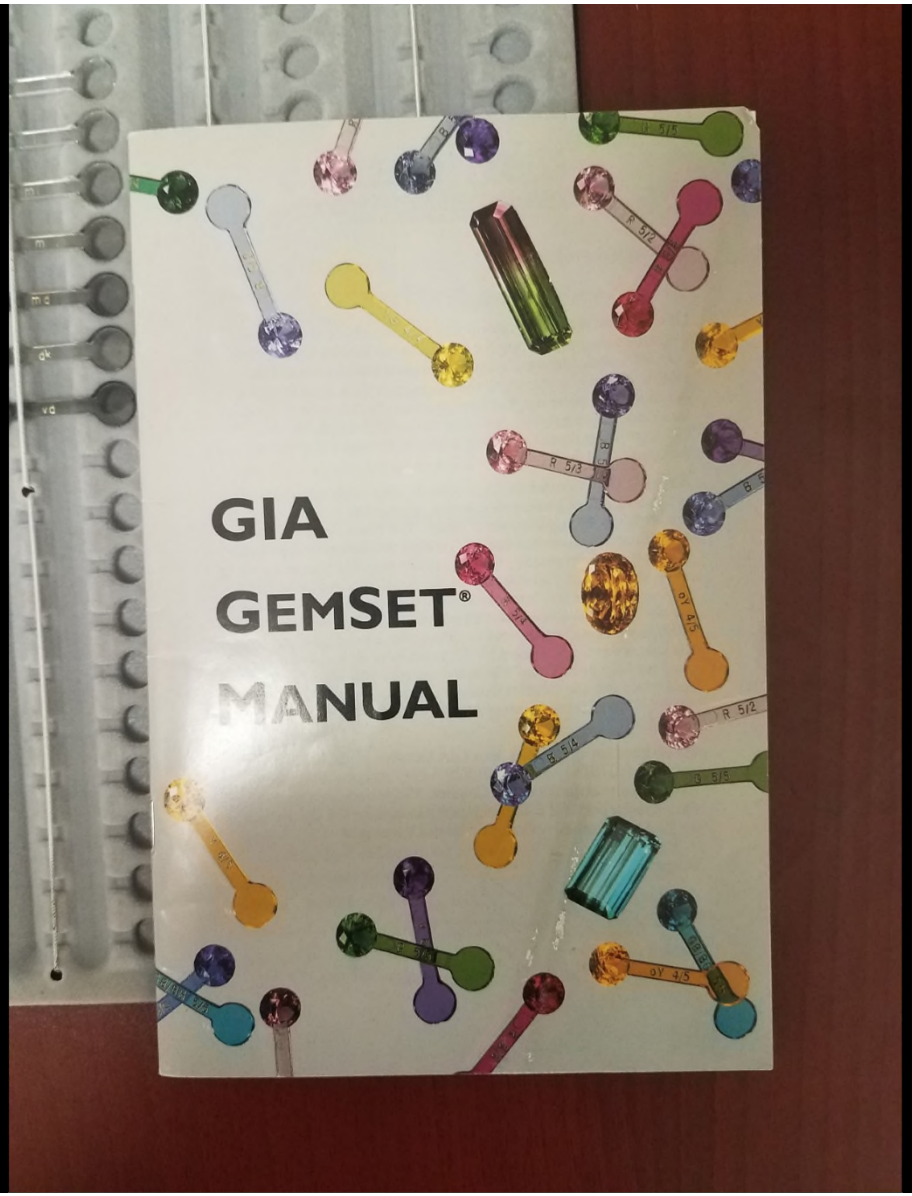
rP 5/6
rP 6/4
rP 6/5
rP 7/5


GIA
GEMSET®
MANUAL

Appendix C

Order of GIA GemSet Samples in Tray 1

Use these tables to correctly replace the pieces should they get out of order. You can also use these tables to find out the color coding for a lost piece you want to replace.

PR/RP 2/1	slpR 4/4	oR 4/5	rO 6/5
PR/RP 2/3	slpR 5/4	oR 5/5	rO 7/3
PR/RP 3/3	slpR 5/5	oR 5/6	rO 8/3
PR/RP 4/2	slpR 6/3	oR 6/3	O 2/2
PR/RP 4/3	slpR 6/5	oR 6/4	O 3/3
PR/RP 4/5	slpR 6/6	oR 6/5	O 3/4
PR/RP 5/3	slpR 7/4	oR 7/4	O 4/3
PR/RP 5/6	slpR 8/3	oR 8/3	O 4/5
PR/RP 6/3	R 2/2	RO/OR 2/2	O 5/2
PR/RP 6/4	R 3/2	RO/OR 2/3	O 5/4
PR/RP 6/6	R 3/4	RO/OR 3/2	O 5/5
PR/RP 7/4	R 4/3	RO/OR 3/4	O 6/3
PR/RP 8/2	R 4/5	RO/OR 4/3	O 6/5
stpR 2/3	R 5/1	RO/OR 4/5	O 7/3
stpR 3/3	R 5/2	RO/OR 5/4	O 8/2
stpR 4/4	R 5/3	RO/OR 5/5	yO 2/3
stpR 5/4	R 5/4	RO/OR 6/3	yO 3/3
stpR 5/5	R 5/5	RO/OR 6/4	yO 4/4
stpR 5/6	R 5/6	RO/OR 7/4	yO 4/5
stpR 6/4	R 6/3	RO/OR 8/2	yO 5/4
stpR 6/5	R 6/5	rO 2/3	yO 5/5
stpR 6/6	R 7/3	rO 3/4	yO 6/3
stpR 7/3	R 7/4	rO 4/3	yO 6/4
stpR 8/3	R 8/2	rO 4/5	yO 7/3
slpR 2/3	oR 3/4	rO 5/4	oY 2/3
slpR 3/3	oR 4/3	rO 5/5	oY 3/4
slpR 4/3	oR 4/4	rO 6/4	oY 3/5

Appendix C

Order of GIA GemSet Samples in Tray 2

oY 4/4	YG/GY 3/3	slyG 4/5	vslbG 7/3
oY 4/5	YG/GY 3/4	slyG 5/3	bG 2/3
oY 5/4	YG/GY 4/3	slyG 5/5	bG 3/3
oY 5/5	YG/GY 4/5	slyG 6/3	bG 4/3
oY 6/4	YG/GY 5/3	slyG 6/4	bG 4/4
oY 7/4	YG/GY 5/4	slyG 8/3	bG 5/4
Y 2/2	YG/GY 6/3	G 2/2	bG 5/5
Y 3/3	YG/GY 7/3	G 3/1	bG 6/4
Y 3/4	styG 2/3	G 3/3	bG 7/3
Y 3/5	styG 3/3	G 3/4	vstbG 2/3
Y 4/3	styG 3/4	G 4/2	vstbG 4/3
Y 4/5	styG 4/3	G 4/3	vstbG 4/4
Y 5/4	styG 4/5	G 4/5	vstbG 4/5
Y 5/5	styG 5/3	G 5/1	vstbG 5/3
Y 6/5	styG 5/4	G 5/3	vstbG 5/5
Y 7/4	styG 6/4	G 5/5	vstbG 6/4
Y 8/3	styG 7/3	G 6/2	vstbG 7/4
gY 2/3	yG 2/3	G 6/4	vstbG 8/3
gY 3/4	yG 3/3	G 7/1	GB/BG 2/2
gY 3/5	yG 4/3	G 7/4	GB/BG 3/3
gY 4/3	yG 4/5	G 8/2	GB/BG 4/2
gY 4/5	yG 5/3	vslbG 2/3	GB/BG 4/4
gY 5/3	yG 5/5	vslbG 3/4	GB/BG 5/3
gY 5/4	yG 6/4	vslbG 4/4	GB/BG 5/4
gY 6/3	yG 7/3	vslbG 5/3	GB/BG 5/5
gY 7/3	slyG 2/4	vslbG 5/5	GB/BG 6/1
YG/GY 2/1	slyG 3/3	vslbG 6/4	GB/BG 6/4

Appendix C

Order of GIA GemSet Samples in Tray 3

GB/BG 7/2	vslgB 7/5	vB 6/4	bP 4/4
GB/BG 8/3	vslgB 8/3	vB 6/5	bP 5/5
vstgB 2/3	B 2/2	vB 7/3	bP 6/3
vstgB 3/2	B 3/1	vB 7/5	bP 6/5
vstgB 4/3	B 3/3	bV 2/3	bP 7/4
vstgB 5/2	B 3/4	bV 3/4	P 2/1
vstgB 5/5	B 4/2	bV 4/3	P 3/1
vstgB 6/4	B 4/5	bV 4/5	P 3/4
vstgB 7/2	B 4/6	bV 5/4	P 4/3
vstgB 7/5	B 5/1	bV 5/5	P 4/5
vstgB 8/3	B 5/2	bV 6/4	P 5/5
gB 2/2	B 5/3	bV 6/5	P 5/6
gB 3/3	B 5/4	bV 7/4	P 6/3
gB 4/3	B 5/5	bV 8/3	P 6/4
gB 5/2	B 5/6	V 2/2	P 6/5
gB 5/4	B 6/2	V 3/2	P 6/6
gB 5/5	B 6/5	V 4/3	P 8/3
gB 6/3	B 6/6	V 4/4	rP 2/3
gB 7/4	B 7/2	V 4/5	rP 3/4
gB 8/1	B 7/4	V 5/2	rP 4/4
vslgB 2/2	B 8/3	V 5/5	rP 4/6
vslgB 3/3	vB 3/3	V 6/4	rP 5/3
vslgB 4/2	vB 4/3	V 6/5	rP 5/6
vslgB 4/4	vB 4/4	V 7/4	rP 6/4
vslgB 5/4	vB 4/6	V 8/1	rP 6/6
vslgB 6/3	vB 5/3	bP 2/3	rP 7/5
vslgB 6/5	vB 5/5	bP 3/3	rP 8/3

Appendix D

ColorMaster Equivalents to GIA GemSet Samples.

GIA GemSet samples represent the same area in color space as the ColorMaster notations listed. Slight color differences may result from variations in individual eyesight, the environment or viewing conditions, or as a result of different media producing slightly different colors, i.e., dyestuffs versus filters and light. "X" signifies that the GIA GemSet sample is out of the range of the ColorMaster.

PR/RP 2/1 — A 38 49 15
PR/RP 2/3 — A 46 41 16
PR/RP 3/3 — B 90 71 29
PR/RP 4/2 — B 42 32 15
PR/RP 4/3 — B 49 28 16
PR/RP 4/5 — B 67 17 20
PR/RP 5/3 — C 43 37 53
PR/RP 5/6 — C 87 07 91
PR/RP 6/3 — C 18 12 25
PR/RP 6/4 — C 24 07 33
PR/RP 6/6 — C 45 00 57
PR/RP 7/4 — D 19 07 78
PR/RP 8/2 — D 05 07 27
stpR 2/3 — A 50 40 13
stpR 3/3 — B 93 71 25
stpR 4/4 — B 62 22 13
stpR 5/4 — C 60 25 44
stpR 5/5 — C 71 17 48
stpR 5/6 — C 96 06 55
stpR 6/4 — C 28 06 21
stpR 6/5 — C 36 03 25
stpR 6/6 — C 50 00 31
stpR 7/3 — D 16 13 49
stpR 8/3 — D 09 03 29
slpR 2/3 — A 51 40 11
slpR 3/3 — B 97 72 19
slpR 4/3 — C 99 96 72
slpR 4/4 — B 65 22 10
slpR 5/4 — C 63 25 32
slpR 5/5 — C 77 16 35
slpR 6/3 — D 49 49 76
slpR 6/5 — D 81 16 88
slpR 6/6 — C 54 00 21
slpR 7/4 — D 26 05 38
slpR 8/3 — D 10 03 22
R 2/2 — A 46 44 11
R 3/2 — B 87 80 18
R 3/4 — A 33 16 04
R 4/3 — B 57 27 08
R 4/5 — B 78 18 07
R 5/1 — C34 52 30
R 5/2 — C 41 45 27
R 5/3 — C 52 35 24
R 5/4 — C 65 26 23
R 5/5 — C 78 18 23
R 5/6 — B 64 01 04
R 6/3 — D 51 51 54
R 6/5 — D 85 17 52
R 7/3 — D 19 12 24
R 7/4 — D 26 06 26
R 8/2 — D 07 06 11
oR 3/4 — G 44 21 93
oR 4/3 — B 58 28 06
oR 4/4 — B 68 23 05
oR 4/5 — B 78 19 05
oR 5/5 — C 78 19 14
oR 5/6 — B 68 01 02
oR 6/3 — D 52 52 42
oR 6/4 — D 68 34 35
oR 6/5 — D 85 19 32
oR 7/4 — D 26 07 16
oR 8/3 — D 11 03 07
RO/OR 2/2 — A 47 45 09
RO/OR 2/3 — A 53 41 08
RO/OR 3/2 — B 87 82 15
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RO/OR 4/3 — B 58 28 06
RO/OR 4/5 — B 72 20 04
RO/OR 5/4 — C 65 29 12
RO/OR 5/5 — C 77 21 10
RO/OR 6/3 — D 51 53 37
RO/OR 6/4 — D 68 35 29
RO/OR 7/4 — D 26 07 11
RO/OR 8/2 — D 07 05 06
rO 2/3 — A 54 41 07
rO 3/4 — G 43 23 64
rO 4/3 — B 58 28 05
rO 4/5 — B 77 21 03
rO 5/4 — C 64 30 10
rO 5/5 — C 75 23 07
rO 6/4 — D 68 36 22
rO 6/5 — D 87 20 16
rO 7/3 — D 19 13 11
rO 8/3 — D 10 04 04
O 2/2 — A 47 47 07
O 3/3 — B 99 78 08
O 3/4 — G 41 26 32
O 4/3 — B 57 30 03
O 4/5 — B 71 26 01
O 5/2 — C 42 49 14
O 5/4 — C 57 39 03
O 5/5 — X
O 6/3 — D 49 61 21
O 6/5 — X
O 7/3 — D 19 16 02
O 8/2 — D 07 09 04
yO 2/3 — G 66 62 95
yO 3/3 — B 99 80 06
yO 4/4 — B 58 33 01
yO 4/5 — B 61 33 00
yO 5/4 — C 51 48 00
yO 5/5 — X
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yO 6/4 — D 47 75 00
yO 7/3 — D 15 24 00
oY 2/3 — G 60 69 82
oY 3/4 — B 89 95 02
oY 3/5 — B 95 97 00
oY 4/4 — B 47 40 01
oY 4/5 — G 17 15 00
oY 5/4 — C 43 59 00
oY 5/5 — X
oY 6/4 — X
oY 7/4 — X
Y 2/2 — A 37 57 05
Y 3/3 — G 27 37 37
Y 3/4 — G 28 38 18
Y 3/5 — G 30 39 00
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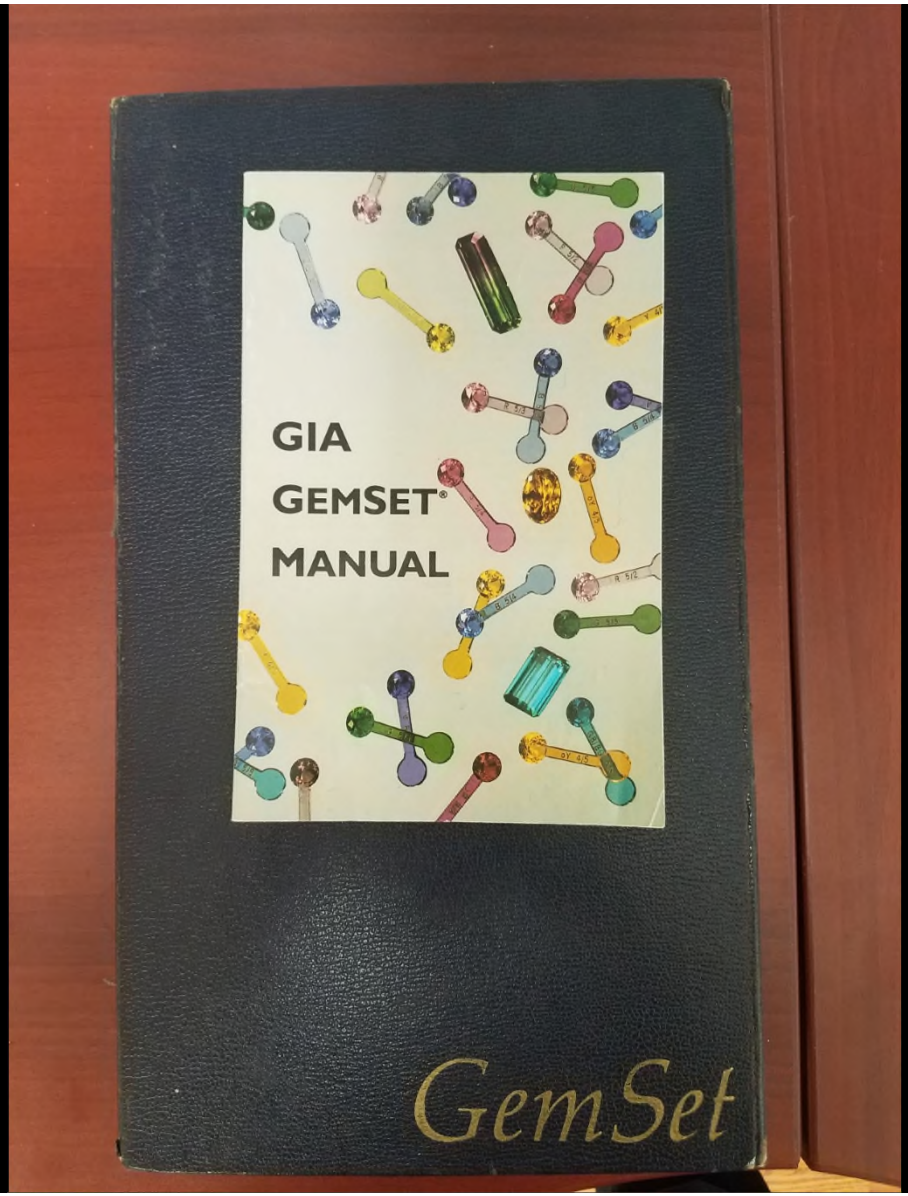
Y 5/5 — X
Y 6/5 — X

GemSet


GIA
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MANUAL
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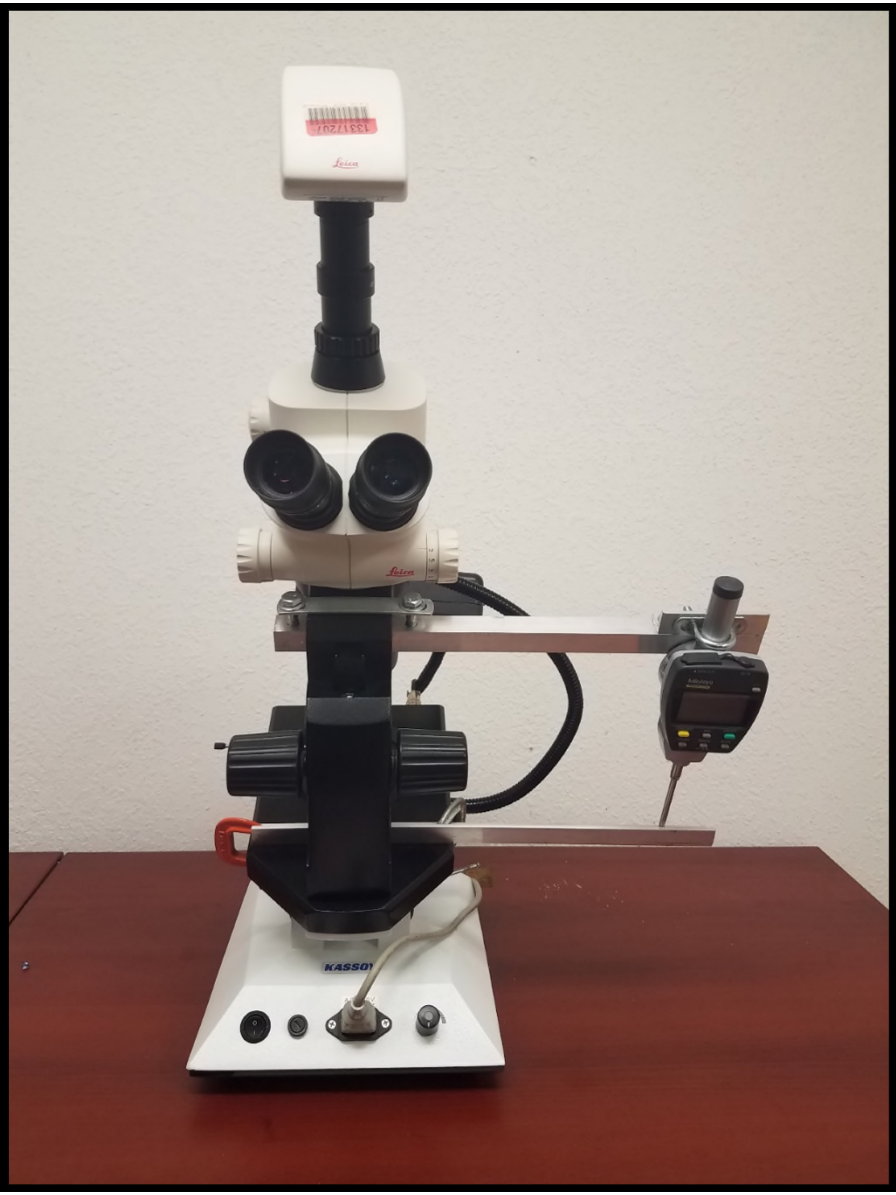
Leica S8 APO
DFC420 Camera
10x/24 Leica Eyepieces 10447137
Darkfield Lighting
Overhead Lighting
Flex Fiber Lighting
Mitutoyo Digital ID-F150

2X APO Objective Add-On Lens

When the added 2X lens is use with the Mitutoyo, a Z-Reading can be obtained, and used to calculate Refractive Indexes of stones such as diamonds, and others with an R.I. above what can be found using the Refractometer.


LEICA
APO


LEICA APO


Leica
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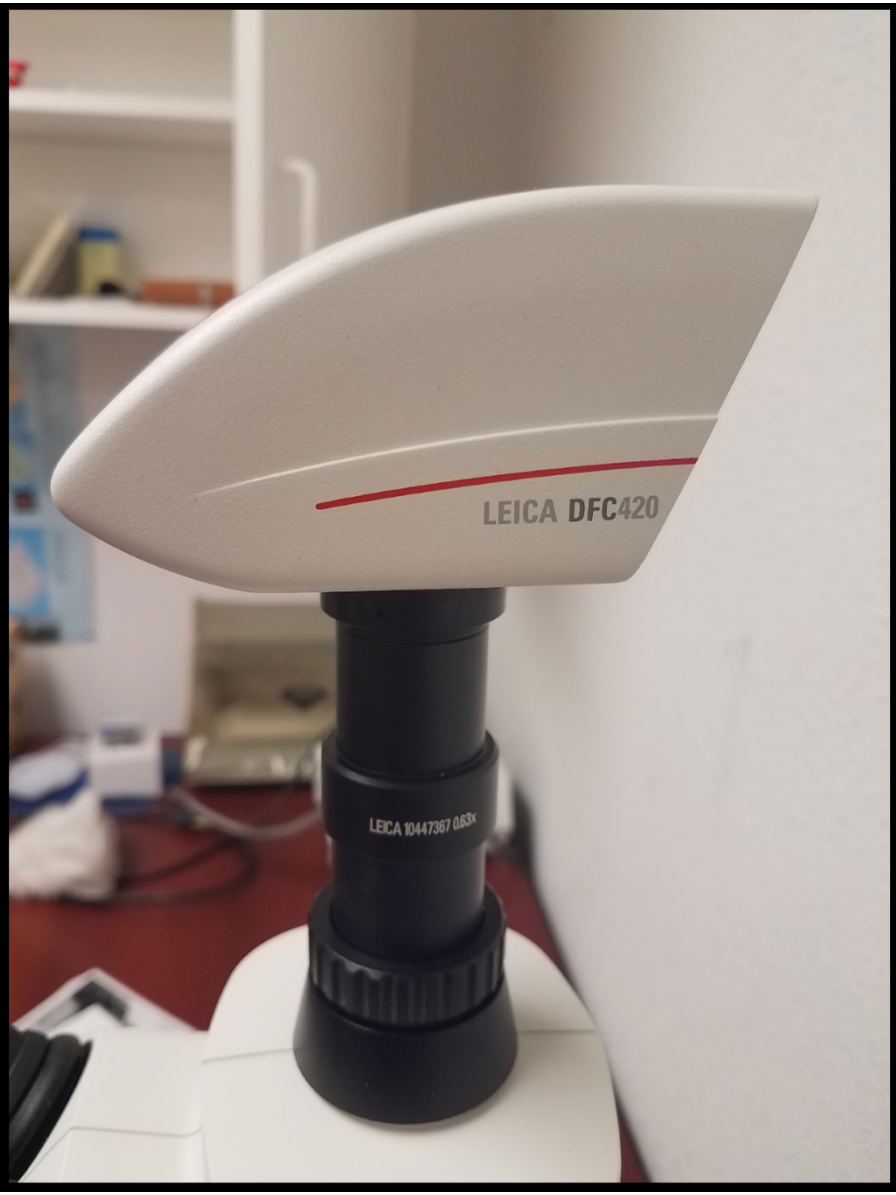
LEICA DFC420
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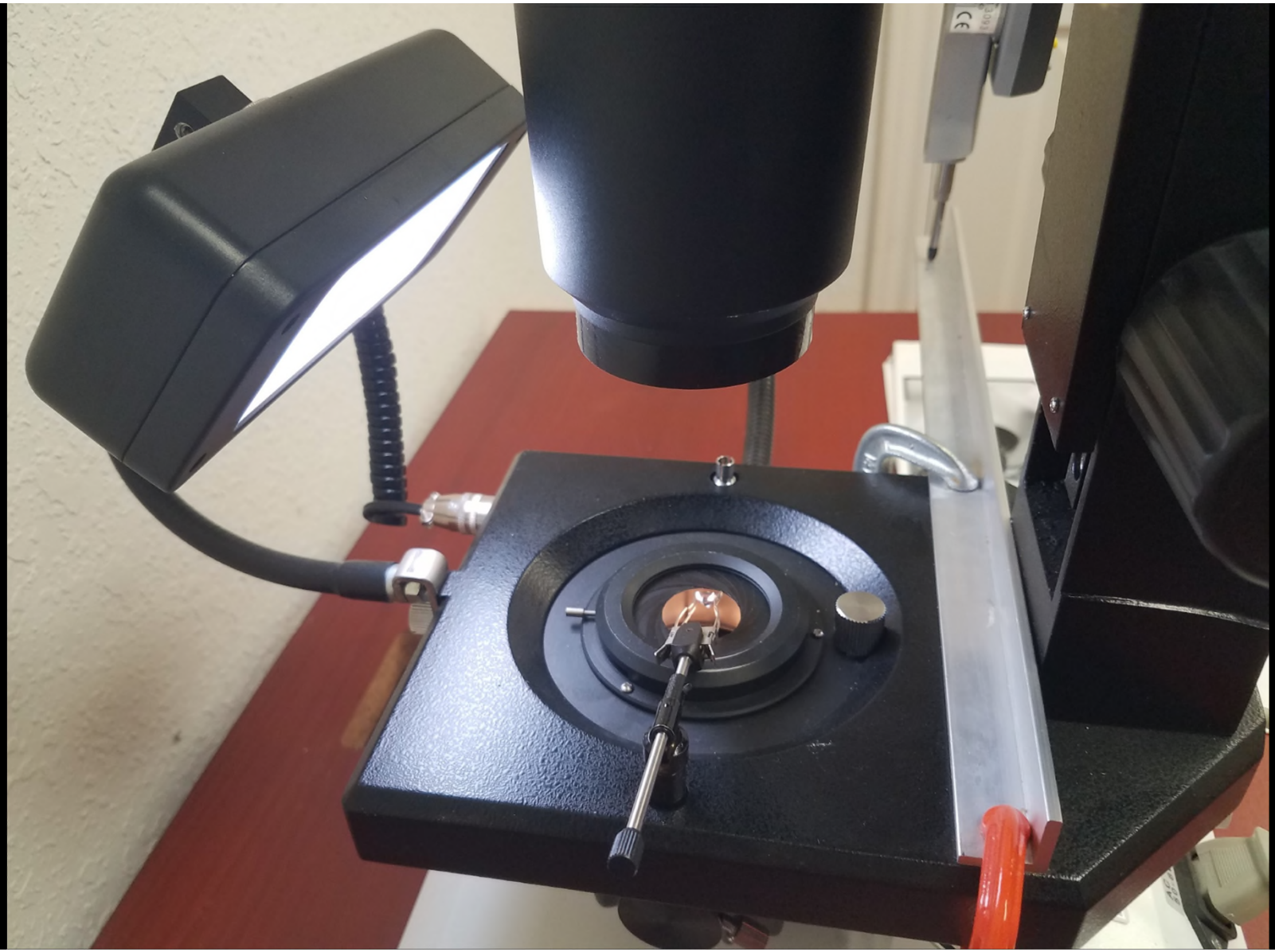
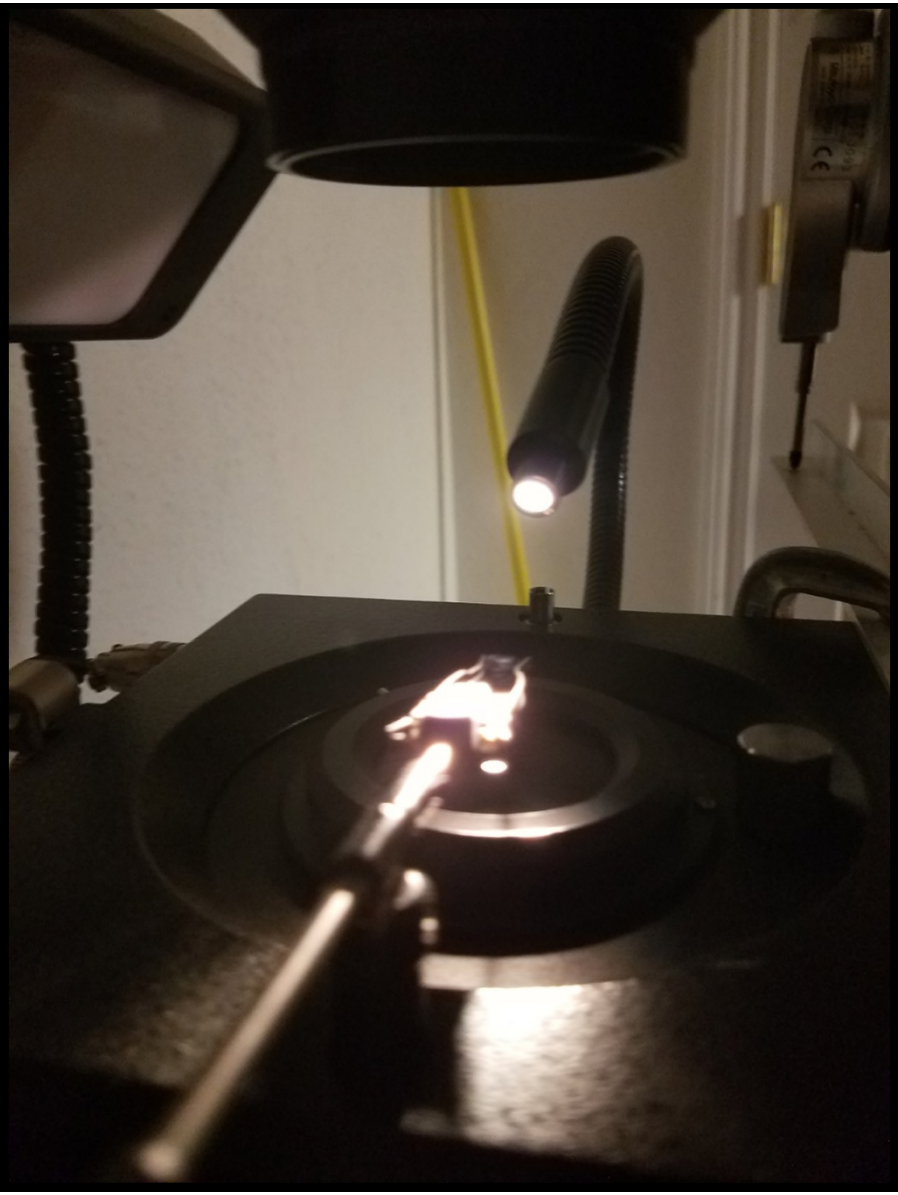
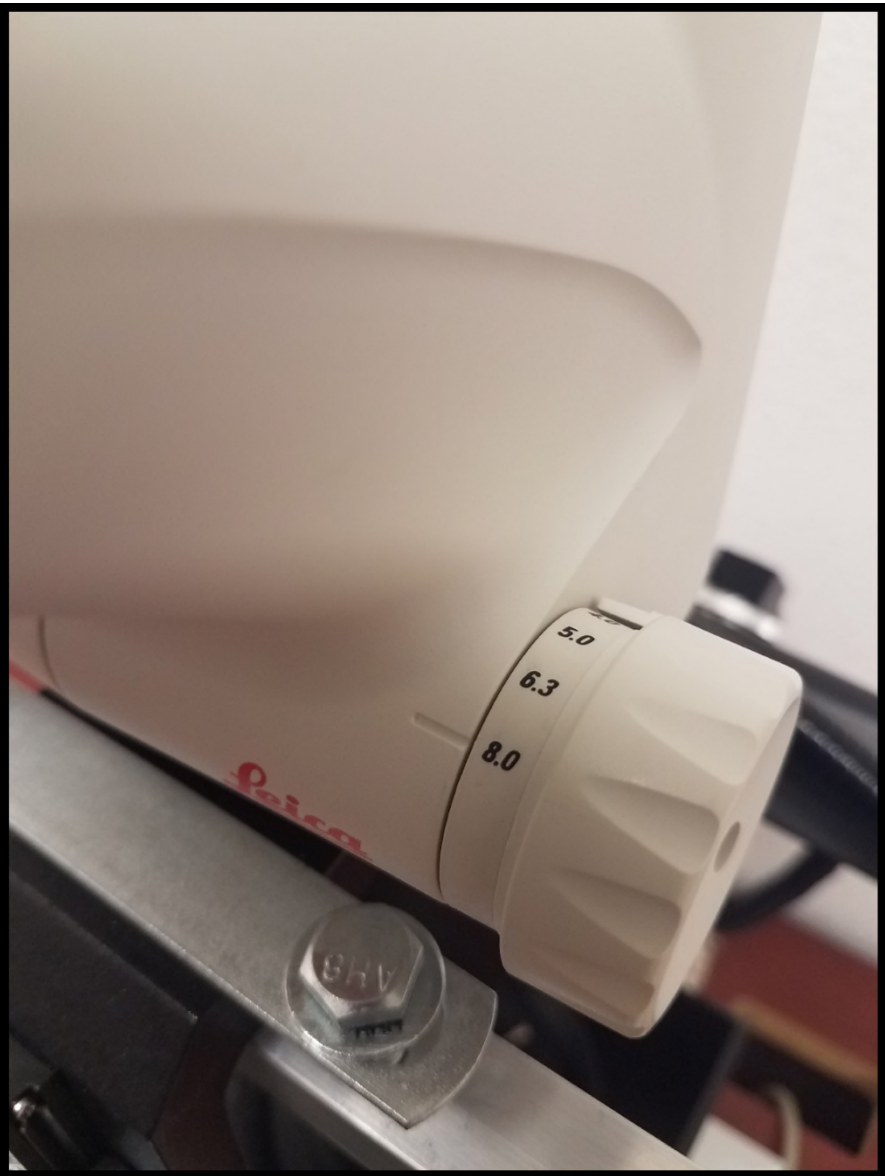





LEICA S8APO


10x/23 LEICA 10447137


10x/23 LEICA 10447137


5.0
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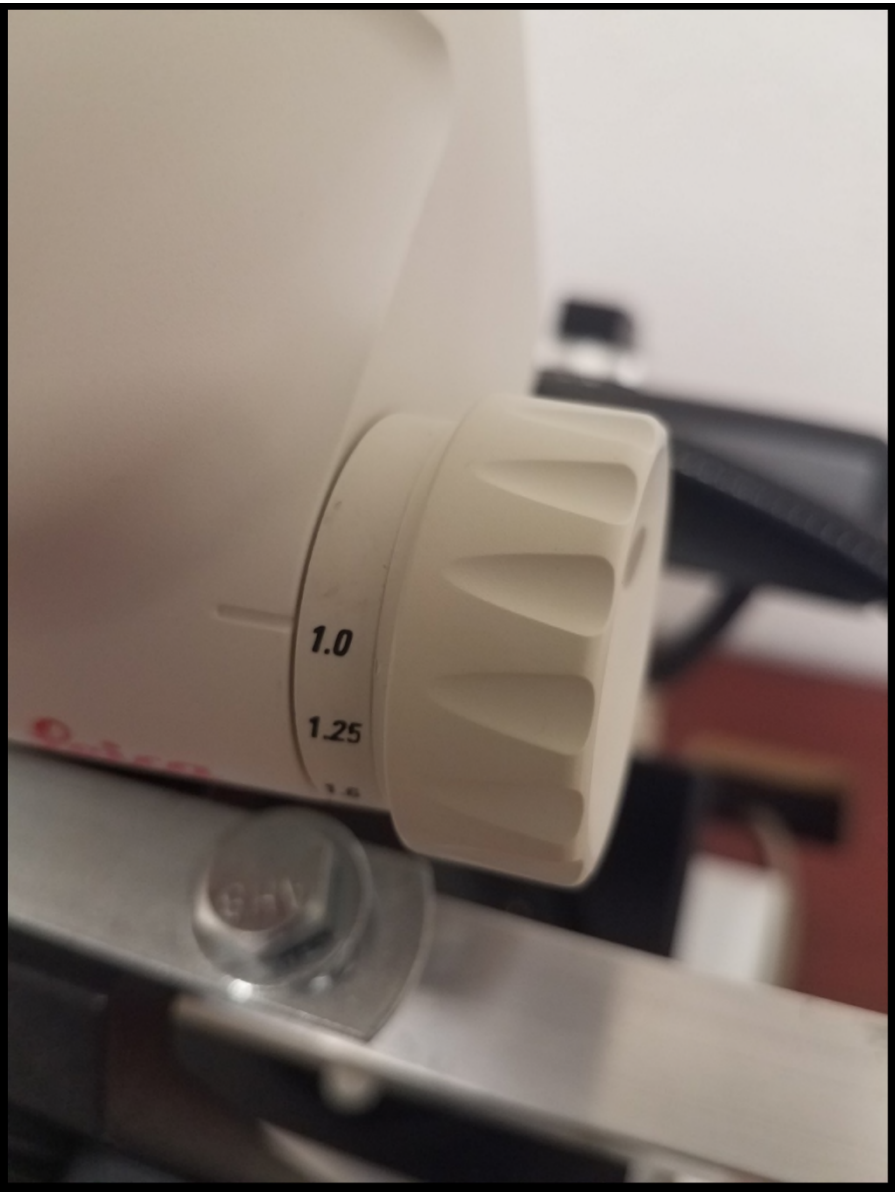
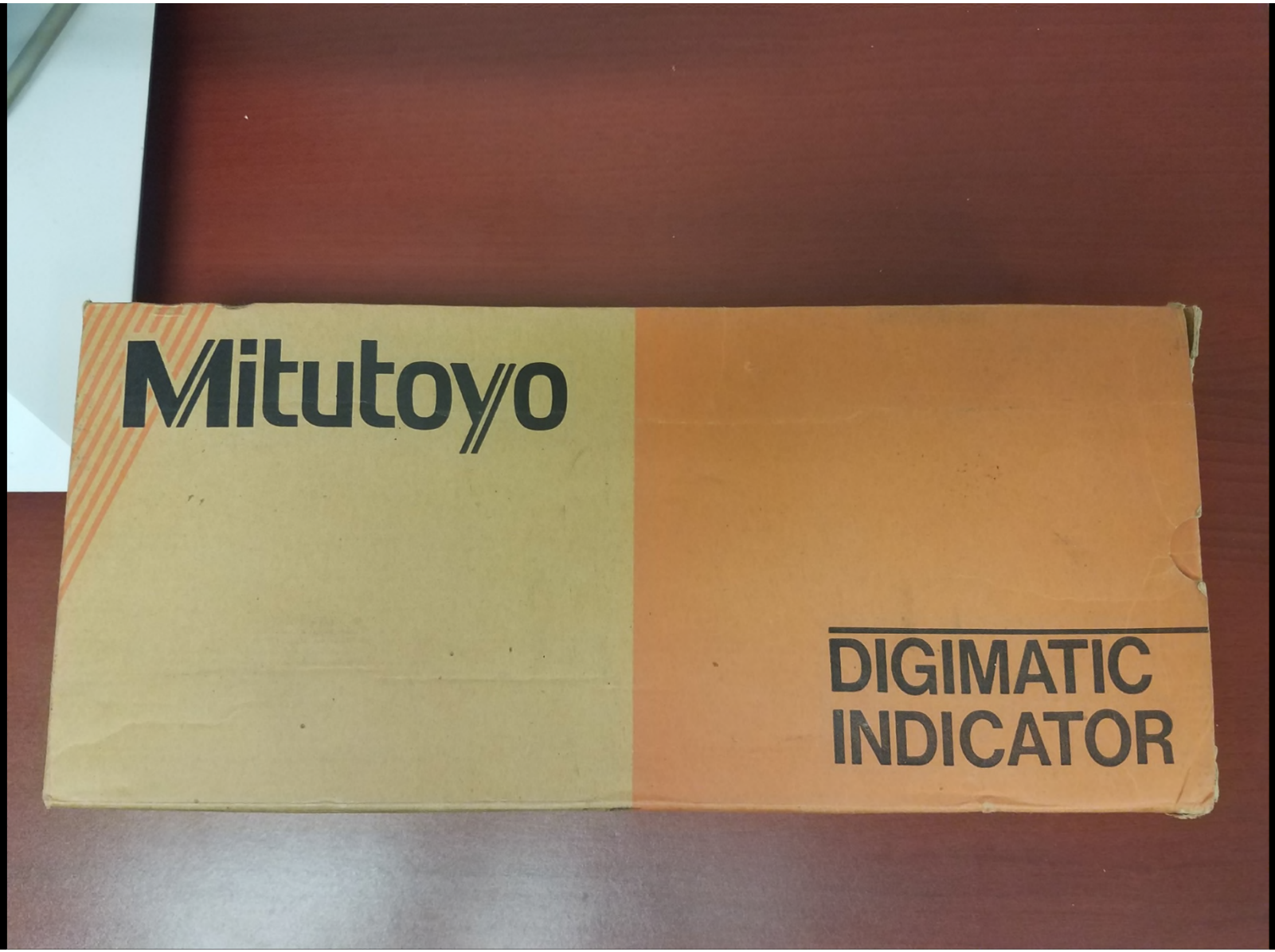
8.0
Leica


1.0
1.25


Mitutoyo
DIGIMATIC
INDICATOR


DATA OUT
DC IN
Mitutoyo
ABSOLUTE
ZERO/ABS
REL
ON/OFF
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DIGIMATIC INDICATOR
Mitutoyo
543-552A
1PC. 543-553A
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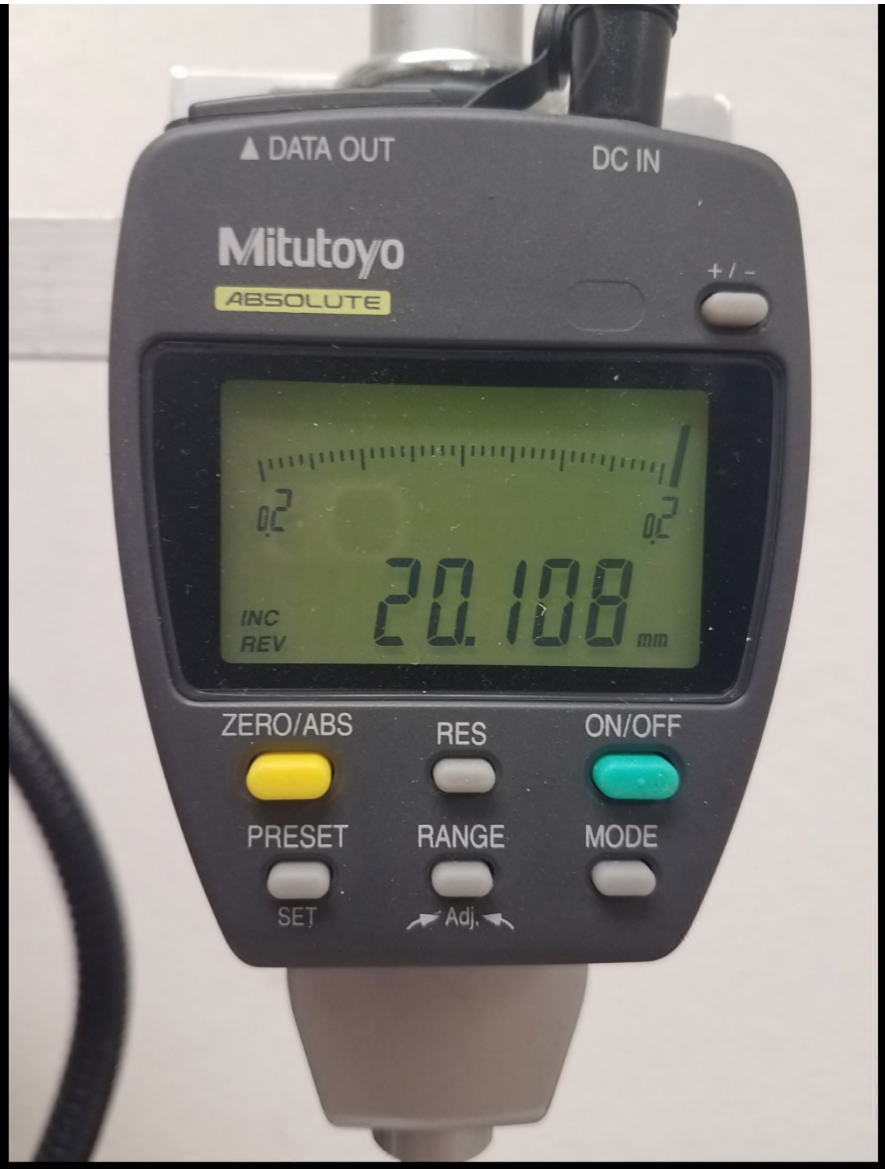
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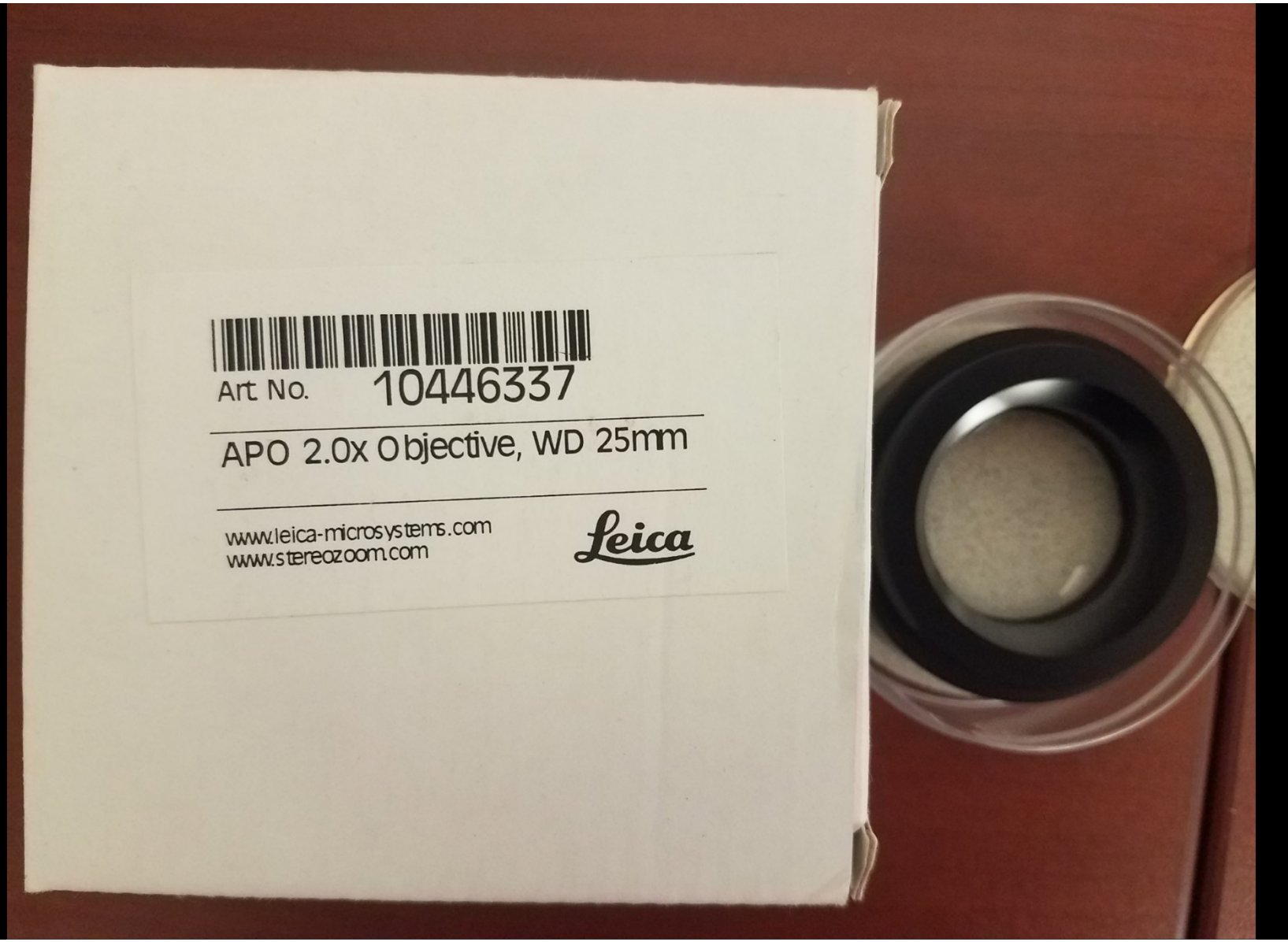
Adj.

Screw this 2X Objective lens on the microscope and use it with the Digital Mitutoyo to get a Z-Reading from the culet to the table of your stone. Then use those numbers to calculate the Refractive Index of diamonds and stones with an R.I. too high to read on the refractometer.

This lens takes you to 10 x 8 x 2.

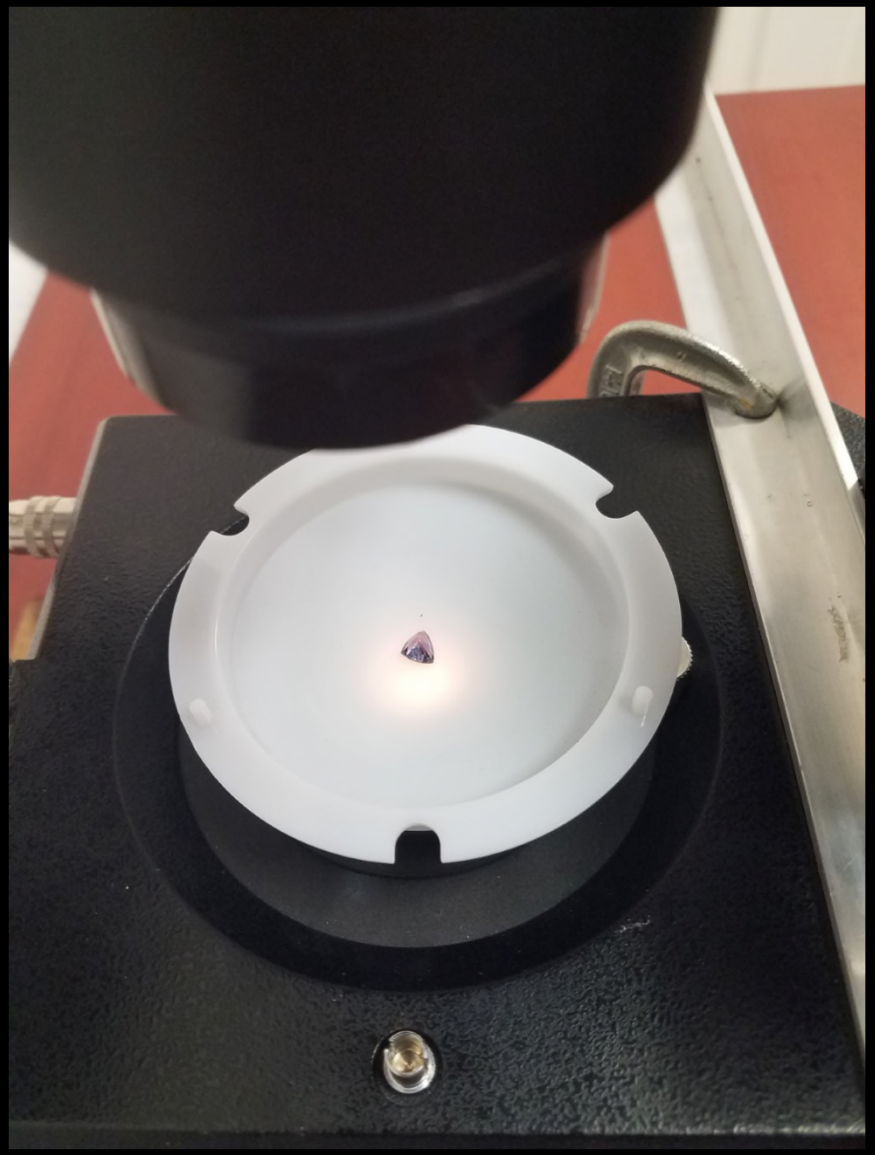


GIA Immersion Cell 420000

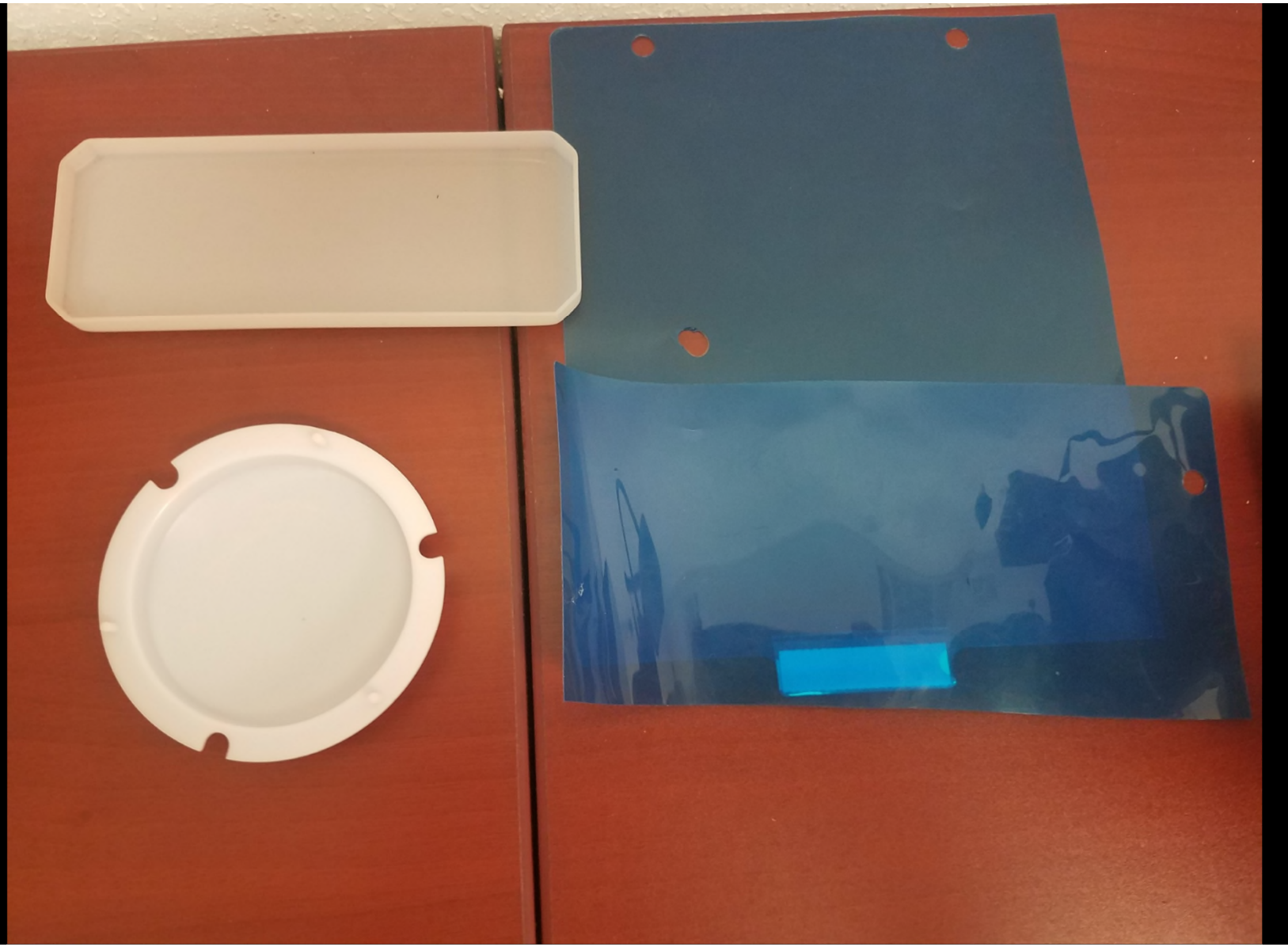

GIA
Gemological Institute of America
Instruments
GIA Immersion Cell
420000

Leica EC3 Microscope Camera

This camera was used prior to finding the DFC420 that is currently mounted on the Leica S8APO Microscope



Filters and Diffusors

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ANDBOOK : Sept. 29, 2006
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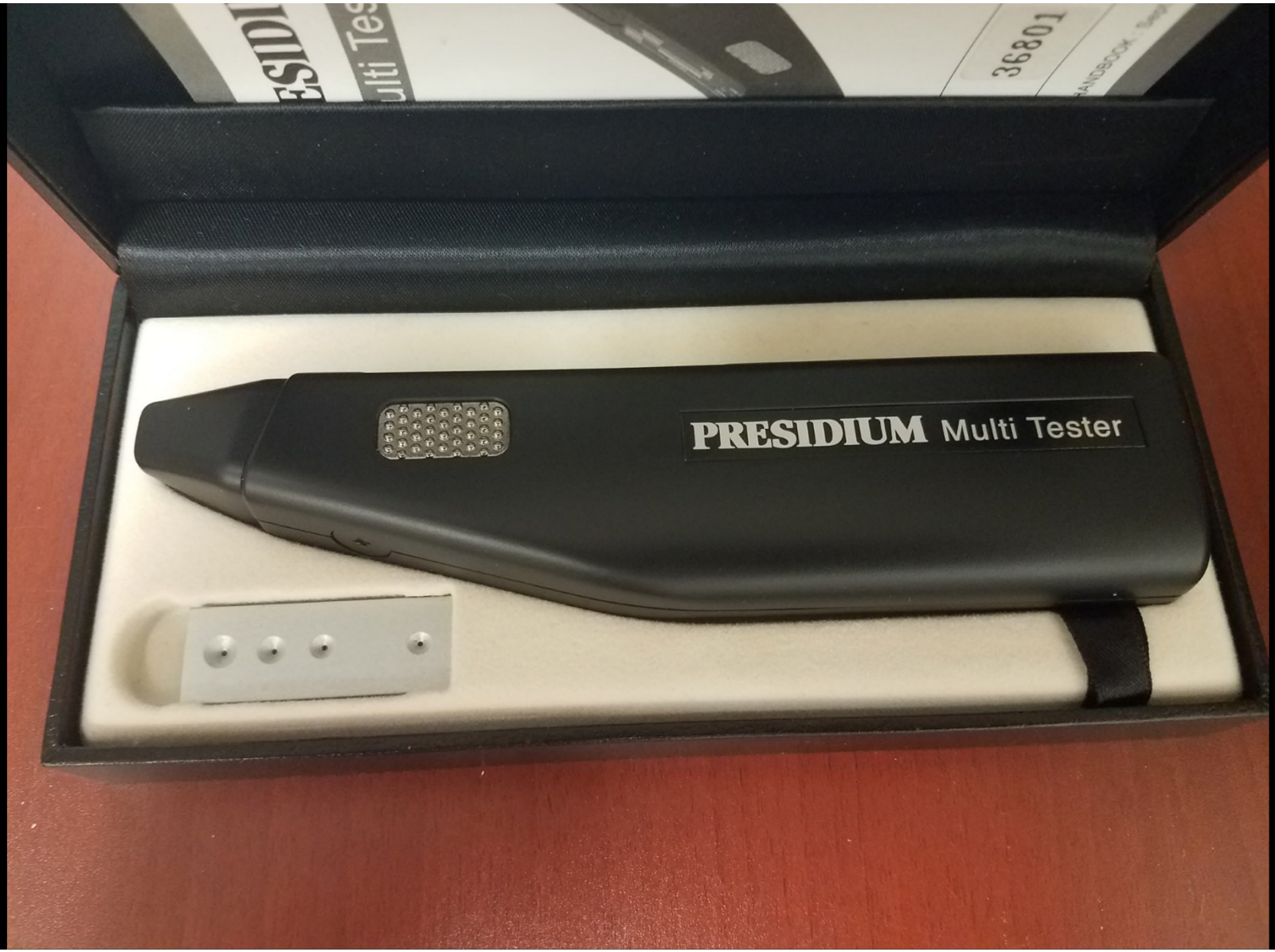
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Inside


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TM
TRUECOLOR


MADAGASCAR
Indian Ocean
South Australia
New South Wales
Victoria

Mohs – Hardness
Test Kit


Mohs' Hardness
Mineral Min Max
Allanite 5.5 6.5
Amblygonite 5.5 6.0
Anatase 5.5 6.0
Anthophyllite 5.5 6.0
Arsenopyrite 5.5 6.0
Augite 5.5 6.0
Babingtonite 5.5 6.0
Beryllonite 5.5 6.0
Brookite 5.5 6.0
Charoite 5.5 6.0
Hauyne 5.5 6.0
Ilvaite 5.5 6.0
Kyanite 4.0 7.5
Lazulite 5.5 6.0
Leucite 5.5 6.0
Magnetite 5.5 6.0
Nepheline 5.5 6.0
Nephrite 5.0 6.5
Scapolite 5.0 6.5
Skutterudite 5.5 6.0
Sodalite 5.5 6.0
Vesuvianite 5.0 6.5
Arfvedsonite 5.0 6.0
Brazilianite 5.5 5.5
Cancrinite 5.0 6.0
Chromite 5.5 5.5
Cobaltite 5.5 5.5
Enstatite 5.0 6.0
Glass 5.0 6.0
Hausmannite 5.5 5.5
Hematite 5.0 6.0
Hornblende 5.0 6.0
Ilmenite 5.0 6.0
Milarite 5.0 6.0
Neptunite 5.0 6.0
Perovskite 5.5 5.5
Richterite 5.0 6.0
Romanechite 5.0 6.0
Thorianite 5.0 6.0
Tremolite 5.0 6.0
Turquoise 5.0 6.0
Uraninite 5.0 6.0
Analcime 5.0
Rhodizite 8.5
Topaz 8.0
Beryl 7.5
Spinel 7.5
Euclase 7.5
Boracite 7.0
Staurolite 7.0
Garnet 6.5
Iolite 7.0
Quartz 7.0
Axinite 6.5
Diaspore 6.5
Epidote 6.5
Jadeite 6.0
Tanzanite 6.0
Bixbyite 6.0
Feldspar 6.0
Marcasite 6.0
Petalite 6.0
Prehnite 6.0
Pyrite 6.0
Rutile 6.0

Mineral	Mohs' Hardness Min	Max
Diamond	10.0	10.0
Moissanite	9.5	9.5
Bromellite	9.0	9.0
Corundum	9.0	9.0
Chrysoberyl	8.5	8.5
Rhodizite	8.5	8.5
Topaz	8.0	8.0
Beryl	7.5	8.0
Phenakite	7.5	8.0
Spinel	7.5	8.0
Dumortierite	7.0	8.0
Euclase	7.5	7.5
Hambergite	7.5	7.5
Boracite	7.0	7.5
Danburite	7.0	7.5
Staurolite	7.0	7.5
Tourmaline	7.0	7.5
Andalusite	6.5	7.5
Garnet	6.5	
Iolite	7.0	
Quartz	7.0	
Sillimanite	7.0	
Axinite	6.5	
Bertrandite	6.5	
Diaspore	6.5	
Kornerupine	6.	
Peridot	6.	
Pollucite	6	
Spodumene	6	
Zircon		
Benitoite		
Cassiterite		
Epidote		
Fergusonite	6.5	6.5
Jadeite	6.0	7.0
Tanzanite	6.0	7.0
Bixbyite	6.0	6.5
Feldspar	6.0	6.5
Marcasite	6.0	6.5
Petalite	6.0	6.5
Prehnite	6.0	6.5
Pyrite	6.0	6.5
Rutile	6.0	6.5
Aegirine	6.0	6.0
Diopside	5.5	6.5
Franklinite	5.5	6.5
Hedenbergite	6.0	6.0
Opal	5.5	6.5
Rhodonite	5.5	6.5
Tantalite	5.5	6.5

Mineral	Mohs' Hardness Min	Max
Allanite	5.0	6.5
Amblygonite	5.5	6.0
Anatase	5.5	6.0
Anthophyllite	5.5	6.0
Arsenopyrite	5.5	6.0
Augite	5.5	6.0
Babingtonite	5.5	6.0
Beryllonite	5.5	6.0
Brookite	5.5	6.0
Charoite	5.5	6.0
Hauyne	5.5	6.0
Ilvaite	5.5	6.0
Kyanite	4.0	7.5
Lazulite	5.5	6.0
Leucite	5.5	6.0
Magnetite	5.5	6.0
Nepheline	5.5	6.0
Nephrite		6.5
Scapolite		6.5
Skutterudite	5.5	6.0
Sodalite	5.5	6.0
Vesuvianite	5.0	6.5
Arfvedsonite	5.0	6.0
Brazilianite	5.5	5.5
Cancrinite	5.0	6.0
Chromite	5.5	5.5
Cobaltite	5.5	5.5
Enstatite	5.0	6.0
Glass	5.0	6.0
Hausmannite	5.5	5.5
Hematite	5.0	6.0
Hornblende	5.0	6.0
Ilmenite	5.0	6.0
Milarite	5.0	6.0
Neptunite	5.0	6.0
Perovskite	5.5	5.5
Richterite	5.0	6.0
Romanechite	5.0	6.0
Thorianite	5.0	6.0
Tremolite	5.0	6.0
Turquoise	5.0	6.0
Uraninite	5.0	6.0
Analcime	5.0	5.5
Datolite	5.0	5.5
Goethite	5.0	5.5
Herderite	5.0	5.5
Lapis-lazuli	5.0	5.5
Microlite	5.0	5.5
Natrolite	5.0	5.5
Nickeline	5.0	5.5

Mineral	Mohs' Hardness Min	Max
Pyrochlore	5.0	5.5
Scolecite	5.0	5.5
Sphene	5.0	5.5
Thomsonite	5.0	5.5
Willemite	5.0	5.5
Apatite	5.0	5.0
Dioptase	5.0	5.0
Eosphorite	5.0	5.0
Glaucodot	5.0	5.0
Monazite	5.0	5.0
Wardite	5.0	5.0
Apophyllite	4.5	5.0
Augelite	4.5	5.0
Betafite	4.0	5.5
Harmotome	4.5	5.0
Hemimorphite	4.5	5.0
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Cancrinite	5.0	6.0
Chromite	5.5	5.5
Cobaltite	5.5	5.5
Enstatite	5.0	6.0
Glass	5.0	6.0
		5
Smithsonite	4.0	4.5
Wolframite	4.0	4.5
Chabazite	3.0	5.0
Fluorite	4.0	4.0
Hauerite	4.0	4.0
Magnesite	3.5	4.5
Manganite	4.0	4.0
Pyrrhotite	3.5	4.5
Rhodochrosite	3.5	4.5
Serpentine	2.0	6.0
Siderite	4.0	4.0
Stibiconite	3.0	5.0
Tennantite	4.0	4.0
Ankerite	3.5	4.0
Aragonite	3.5	4.0
Azurite	3.5	4.0
Brochantite	3.5	4.0
Chalcopyrite	3.5	4.0
Cuprite	3.5	4.0

Mineral	Mohs' Hardness Min	Max
Dolomite	3.5	4.0
Heulandite	3.5	4.0
Ice	1.5	6.0
Malachite	3.5	4.0
Mimetite	3.5	4.0
Pentlandite	3.5	4.0
Sphalerite	3.5	4.0
Stilbite	3.5	4.0
Wavellite	3.5	4.0
Adamite	3.5	3.5
Anhydrite	3.5	3.5
Arsenic	3.5	3.5
Astrophyllite	3.0	4.0
Gyrolite	3.0	4.0
Howlite	3.5	3.5
Hydromagnesite	3.5	3.5
Laumontite	3.0	4.0
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		4.
		lite
		4.5
		6.5
Enargite	3.0	3.0
Jarosite	2.5	3.5
Anglesite	2.5	3.0
Boulangerite	2.5	3.0
Bournonite	2.5	3.0
Calaverite	2.5	3.0
Chalcocite	2.5	3.0
Copper	2.5	3.0
Crocoite	2.5	3.0
Glauberite	2.5	3.0
Gold	2.5	3.0
Silver	2.5	3.0
Thenardite	2.5	3.0
Trona	2.5	3.0
Vanadinite	2.5	3.0
Wulfenite	2.5	3.0
Aluminum	2.0	3.0

Mineral	Mohs' Hardness Min	Max
Brucite	2.5	3.0
Calcite	2.0	2.5
Carnallite	2.5	4.0
Carnotite	1.0	2.5
Chalcanthite	2.5	2.5
Chlorargyrite	2.5	3.0
Chlorite	2.0	3.0
Clinochlore	2.0	2.5
Cryolite	2.5	2.5
Galena	2.5	2.5
Kernite	2.5	2.5
Linarite	2.5	2.5
Pyrrargyrite	2.5	2.5
Ulexite	2.5	2.5
Vicanthite	2.0	2.5
Annabergite	1.5	3.0
Autunite	2.0	2.5
Bismuth	2.0	2.5
Borax	2.0	2.5
Cinnabar	2.0	2.5
Epsomite	2.0	2.5
Kaolinite	2.0	2.5
Proustite	2.0	2.5
Sepiolite	2.0	2.5
Stephanite	2.0	2.5
Succinite	2.0	2.5
Bauxite	1.0	3.0
Bismuthinite	2.0	2.0
Erythrite	1.5	2.5
Gypsum	2.0	2.0
Halite	2.0	2.0
Stibnite	2.0	2.0
Sulfur	1.5	2.5
Sylvanite	2.0	2.0
Sylvite	2.0	2.0
Tin	2.0	2.0
Zinc	2.0	2.0
Covellite	1.5	2.0
Orpiment	1.5	2.0
Realgar	1.5	2.0
Stichtite	1.5	2.0
Vivianite	1.5	2.0
Aurichalcite	1.0	2.0
Lead	1.5	2.0
Montmorillonite	1.0	1.5
Pyrophyllite	1.0	2.0
Sal ammoniac	1.0	2.0
Molybdenite	1.0	2.0
Graphite	1.0	1.5
Talc	1.0	1.0

5.5

Hardness Pick Set a

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Hardness points for

s sharp.

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3.5.

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3.5

Ohaus Pocket Scale

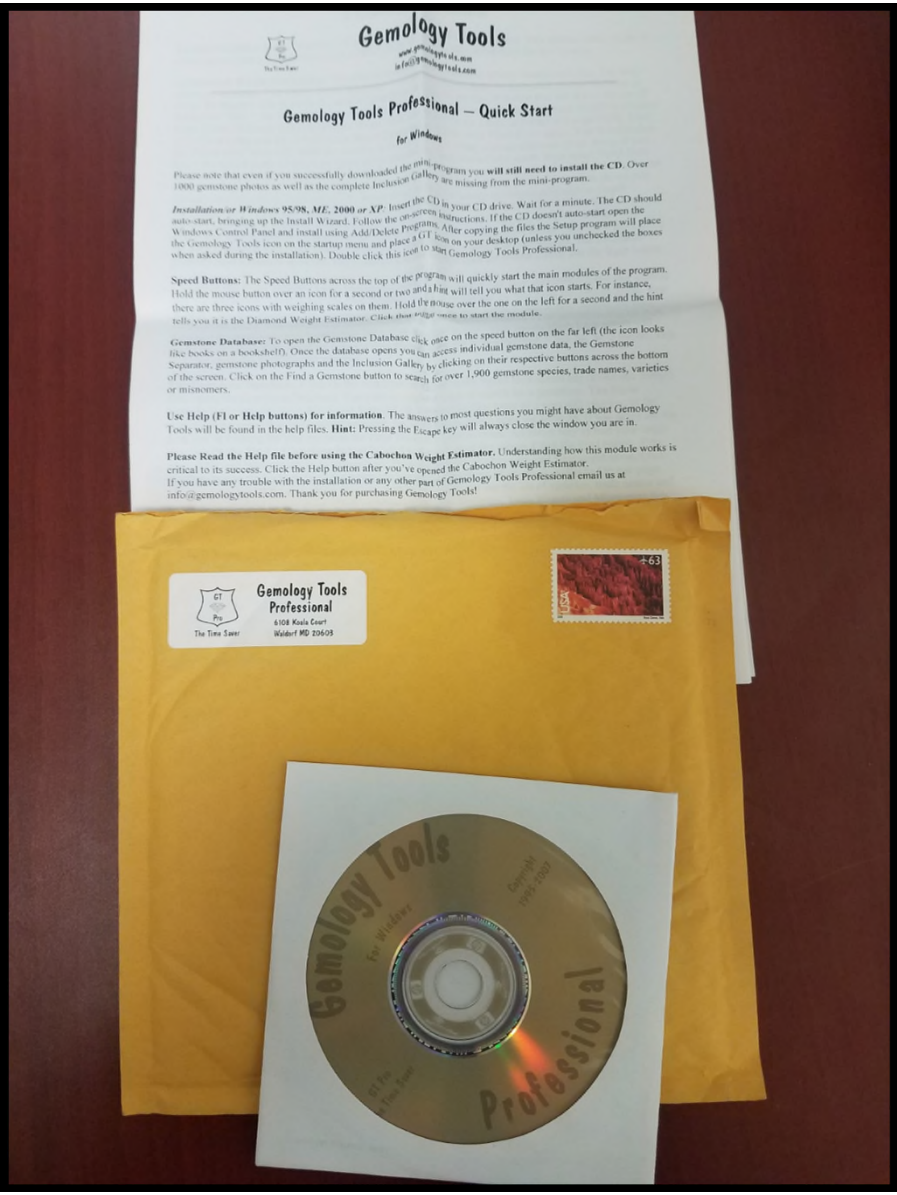
SCIENCETECH
INSTRUMENTS
Model:LPG200
mm/inch
OFF
ON
ZERO

GemOro
SUPERIOR INSTRUMENTS
Platinum 600SS
600g x 0.1g
Power
Mode
Tare

Gem-A Estimation Loupe

When viewing stones through this loupe, a scale is displayed that allows one to calculate the caret weight

Often referred to as a Hearts & Arrows Loupe, or a Symmetry Loupe. If the diamond is cut to those specifications it will display hearts and arrows at a quick glance.



Gemology Tools

www.gemologytools.com
info@gemologytools.com

Gemology Tools Professional — Quick Start

for Windows

Please note that even if you successfully downloaded the mini-program you **will still need to install the CD**. Over 1000 gemstone photos as well as the complete Inclusion Gallery are missing from the mini-program.

Installation for Windows 95/98, ME, 2000 or XP: Insert the CD in your CD drive. Wait for a minute. The CD should auto-start, bringing up the Install Wizard. Follow the on-screen instructions. If the CD doesn't auto-start open the Windows Control Panel and install using Add/Delete Programs. After copying the files the Setup program will place the Gemology Tools icon on the startup menu and place a GT Icon on your desktop (unless you unchecked the boxes when asked during the installation). Double click this icon to start Gemology Tools Professional.

Speed Buttons: The Speed Buttons across the top of the program will quickly start the main modules of the program. Hold the mouse button over an icon for a second or two and a hint will tell you what that icon starts. For instance, there are three icons with weighing scales on them. Hold the mouse over the one on the left for a second and the hint tells you it is the Diamond Weight Estimator. Click that page once to start the module.

Gemstone Database: To open the Gemstone Database click once on the speed button on the far left (the icon looks like books on a bookshelf). Once the database opens you can access individual gemstone data, the Gemstone Separator, gemstone photographs and the Inclusion Gallery by clicking on their respective buttons across the bottom of the screen. Click on the Find a Gemstone button to search for over 1,900 gemstone species, trade names, varieties or misnomers.

Use Help (F1 or Help buttons) for information. The answers to most questions you might have about Gemology Tools will be found in the help files. **Hint:** Pressing the Escape key will always close the window you are in.

Please Read the Help file before using the Cabochon Weight Estimator. Understanding how this module works is critical to its success. Click the Help button after you've opened the Cabochon Weight Estimator.
If you have any trouble with the installation or any other part of Gemology Tools Professional email us at info@gemologytools.com. Thank you for purchasing Gemology Tools!

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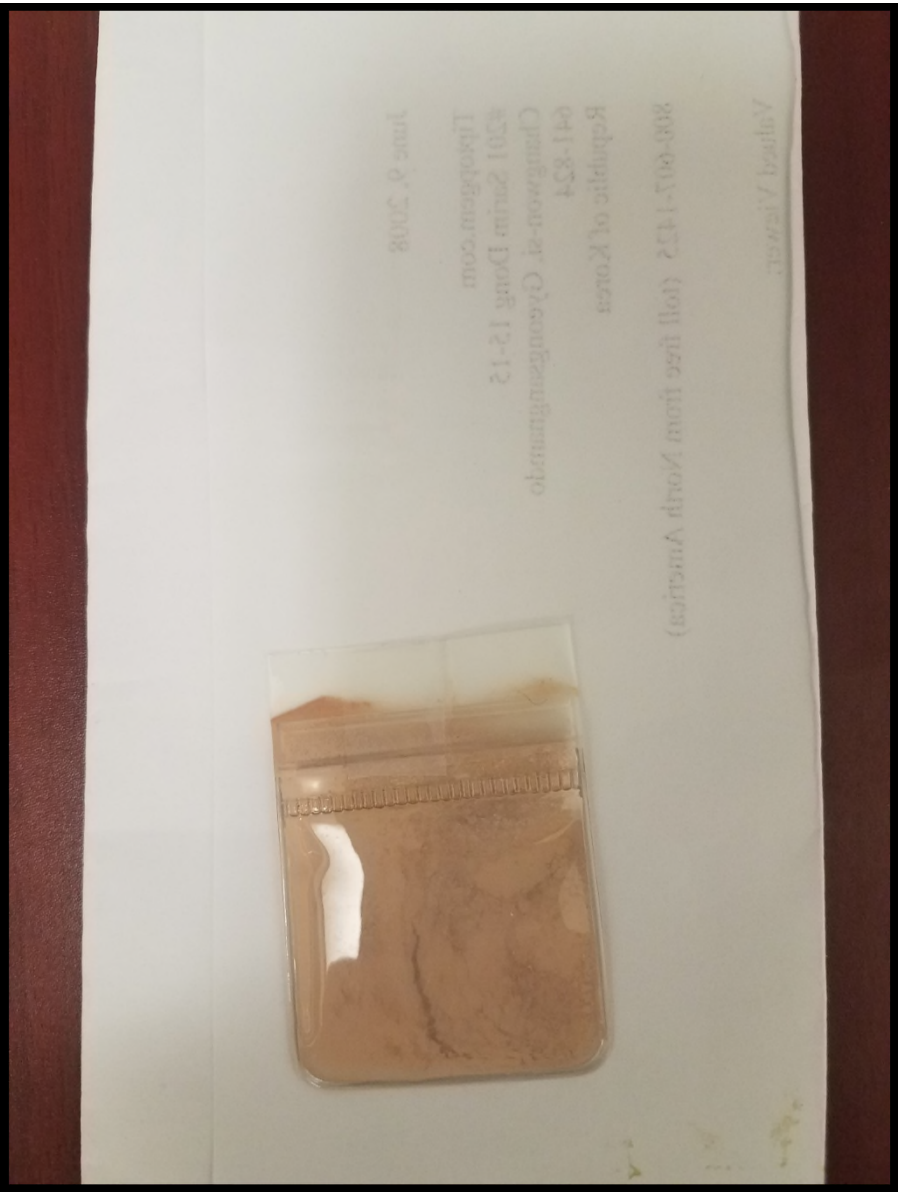

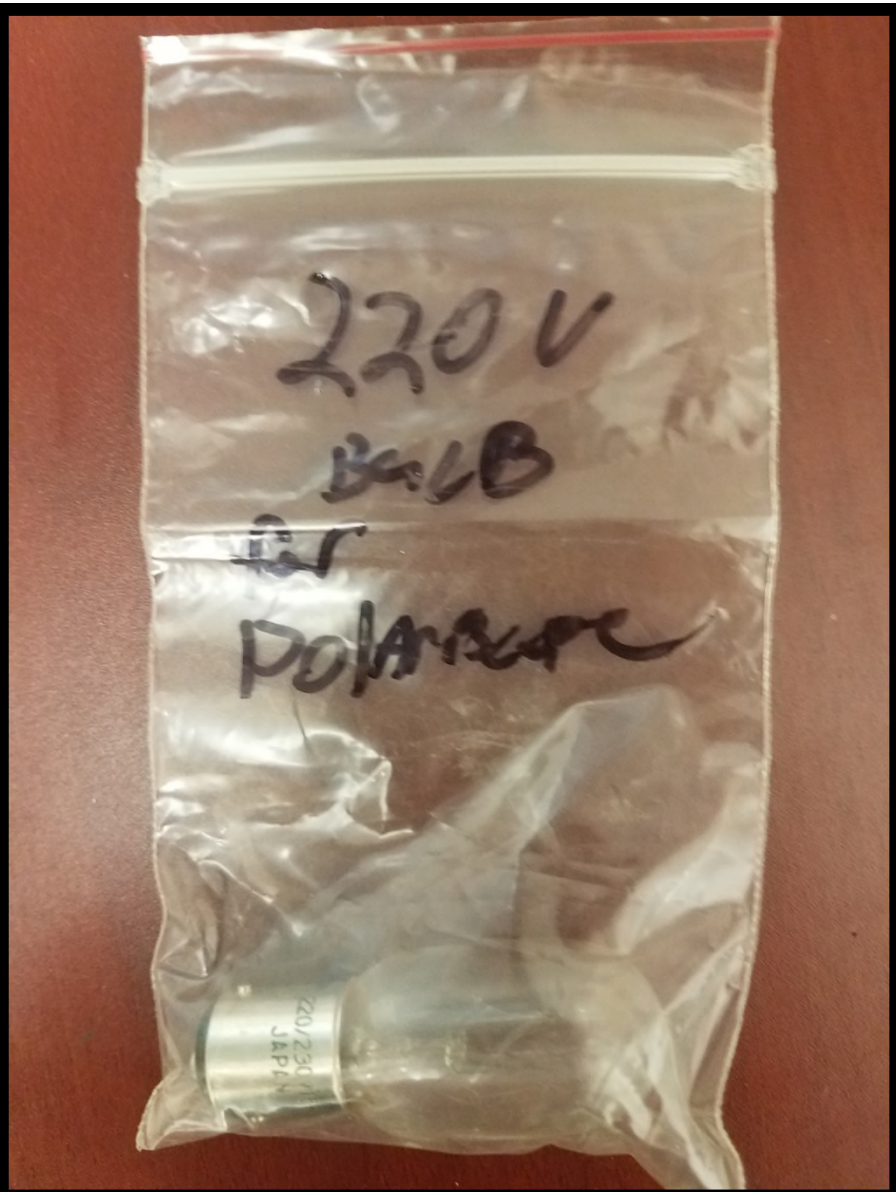
220V
BULB
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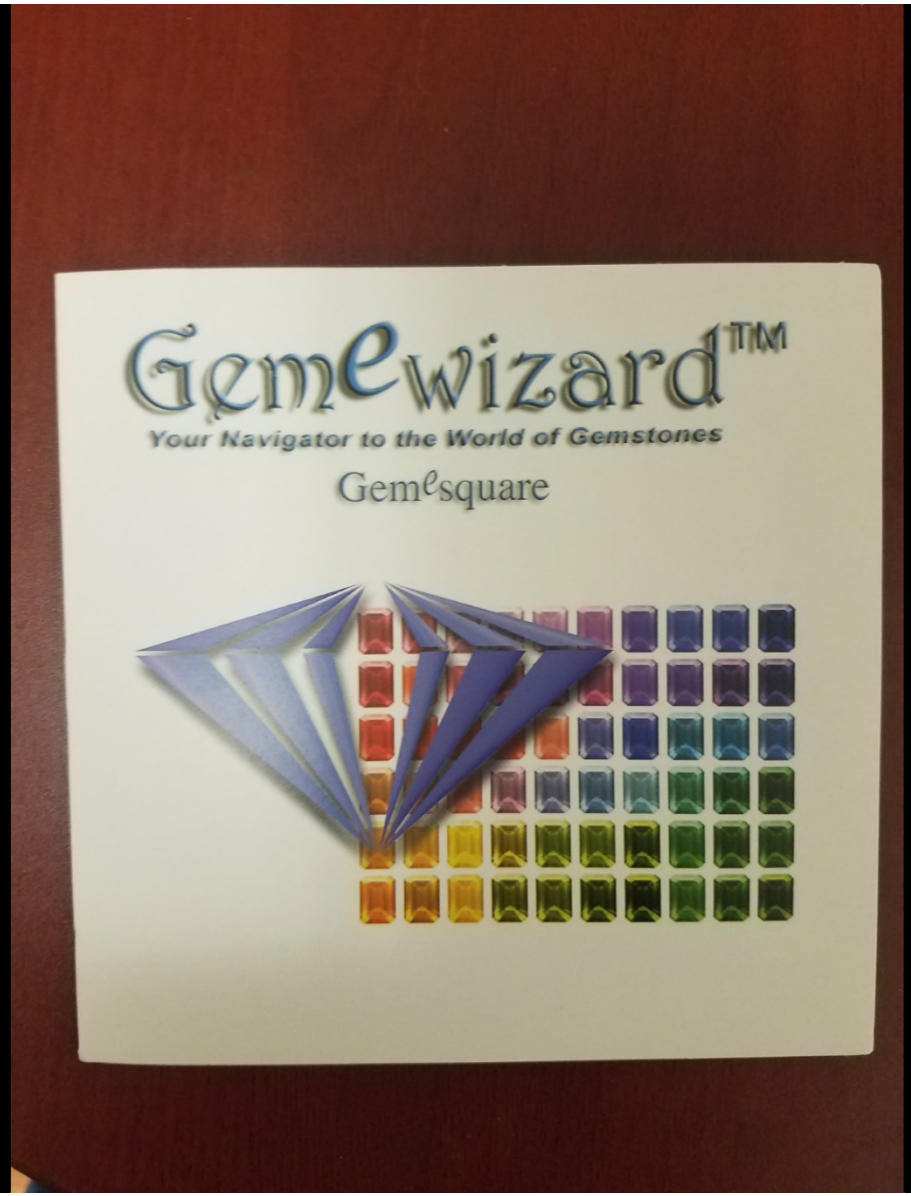
POLARSCOPE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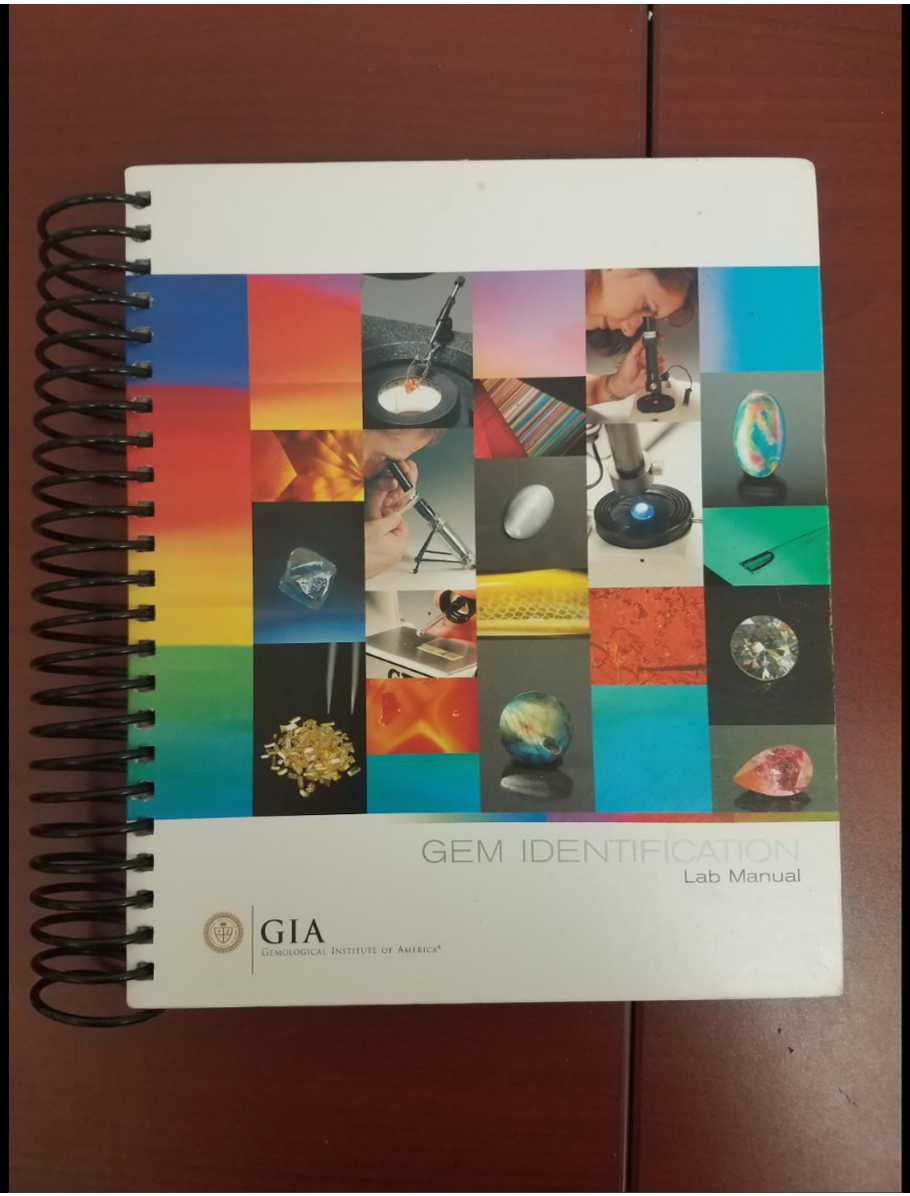
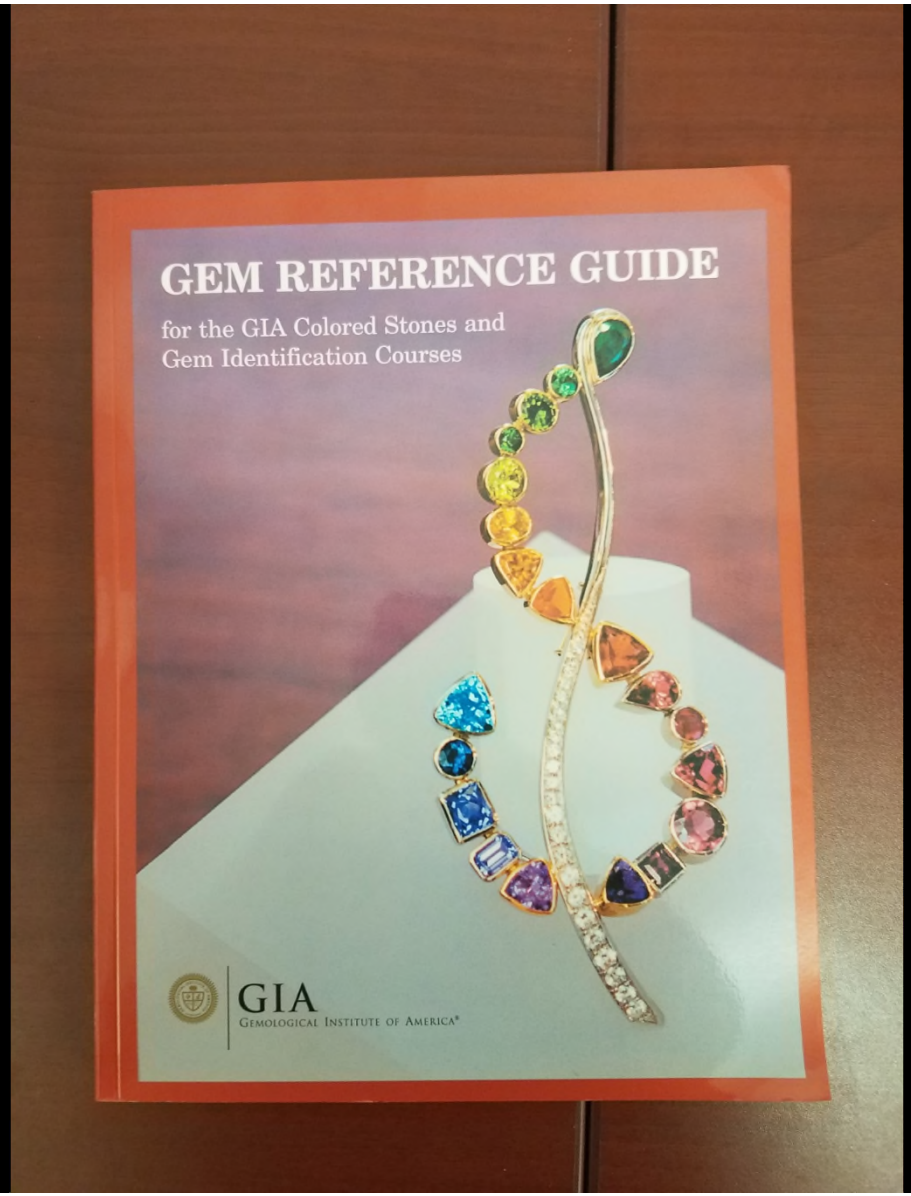
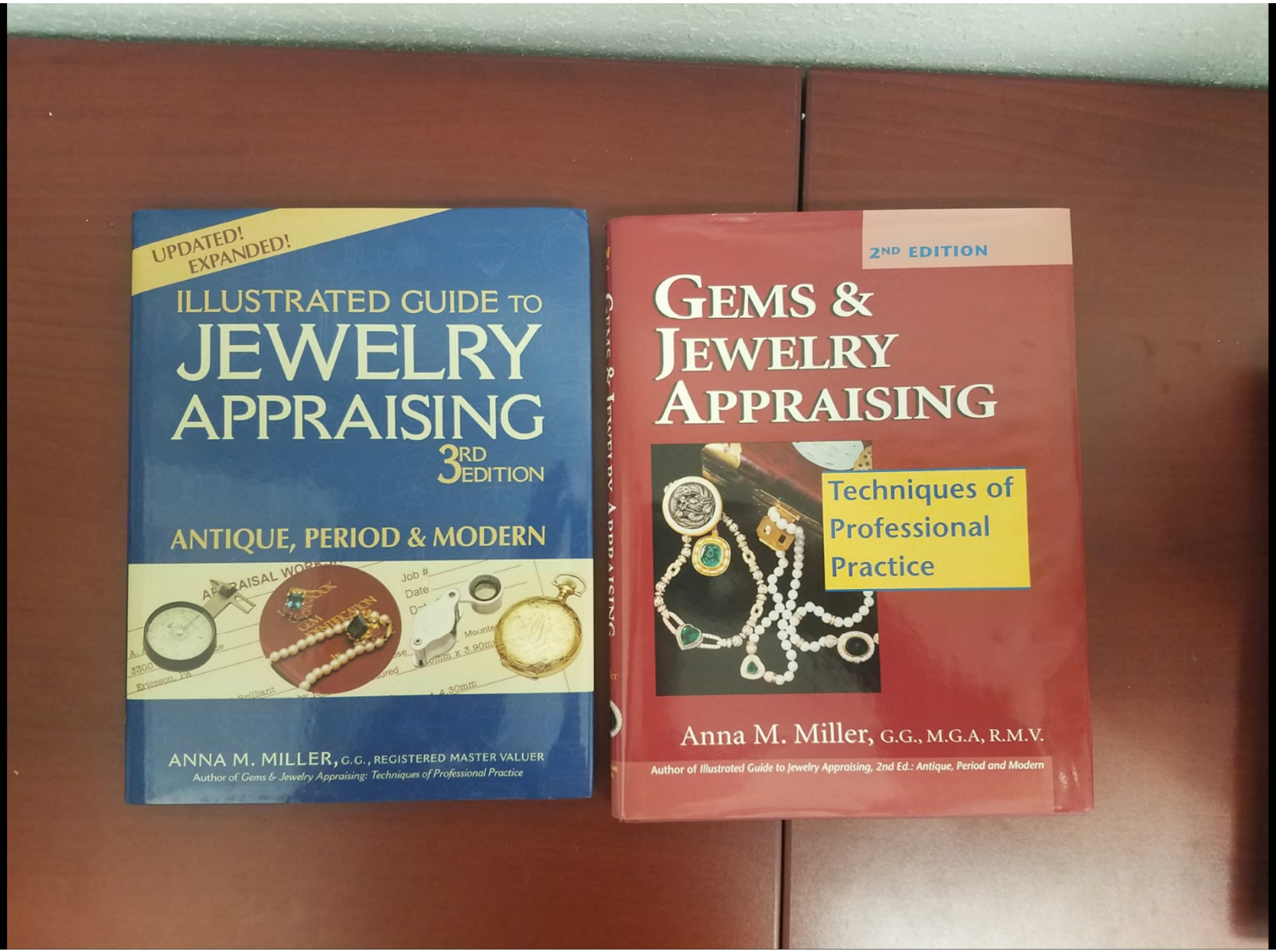


Brand New – Never Used copy of the GIA Gem Reference Guide

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MADAGASCAR
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Gulf of Thailand
Indian Ocean
Pacific Ocean
Atlantic Ocean
Caribbean Sea
Arafura Sea
Coral Sea
Timor Sea
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CHINA
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