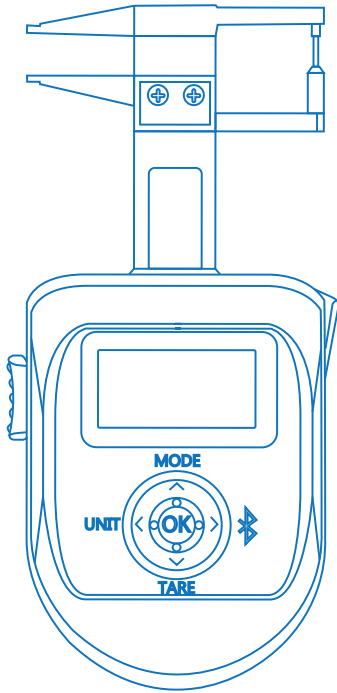


Primo-I

Digital Gem Gauge



USER MANUAL BOOK

CONTENTS

- I. DISCLAIMERS, EXCLUSIONS AND LIMITATIONS OF LIABILITY
- II. ABOUT SMARTPRO PRIMO I
- III. FEATURES AND ADVANTAGES
- IV. DEVICE OVERVIEW
- V. TURNING ON/OFF DEVICE
- VI. BATTERY INDICATOR AND CHARGING
- VII. MEASUREMENT MODES
- VIII. SPECIFIC GRAVITY OF SOME COMMON GEM MINERALS
- IX. COMMON GEMSTONES CUTS
- X. BLUETOOTH CONNECTIVITY
- XI. DIAMOND WEIGHT ESTIMATION CERTIFICATE
- XII. SAFE HANDLING INFORMATION

I. DISCLAIMERS, EXCLUSIONS AND LIMITATIONS OF LIABILITY

Please read and note SMARTPRO WARRANTY TERMS AND CONDITIONS as stated in the warranty card. SmartPro warranty for its subject to proper use by its user in accordance with all the terms and conditions as started in the relevant user manual and shall cover only manufacturing defects.

Due to continues product improvement, SmartPro reserves the right to revise all documents including the right to make changes to the user manual without notice and without obligation to notify any person of such revisions or changes. Users are advised to check SmartPro's website <http://www.smartproinstrument.com>. SmartPro shall not be responsible for any damage or loss resulting from the use of the product or user manual, and under no circumstances shall SmartPro, its manufacturer or any of its subsidiaries, licensors, distributors, resellers, servants and/or agents be liable for any direct or indirect damages resulting from the use of this product.

To maximum extent permitted by applicable law, under no circumstances shall SmartPro, its manufacturer or any of its subsidiaries, licensors, distributors, resellers, servants and/or agents be liable for any special, incidental, consequential or indirect damages howsoever caused.

Smartpro Primo I referred to in this user manual is provided and/or sold on "as is" basis. Except as required by applicable law, no warranties of any kind, expressed or implied including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

II. ABOUT SMARTPRO PRIMO I

A special Digital Gem Gauge named SmartPro Primo I (SPPI) has been developed to measure small dimensions accurately in millimeters and with direct conversion to carat unit (round brilliant-cut diamonds as the basic cut). It can also be used to estimate the weight of a gemstone (mounted or loose) by getting its dimensions, Gem type, cut and Specific Gravity Constant which all of these are well programmed in the device to get the weight estimation in Carat.

III. FEATURES AND ADVANTAGES

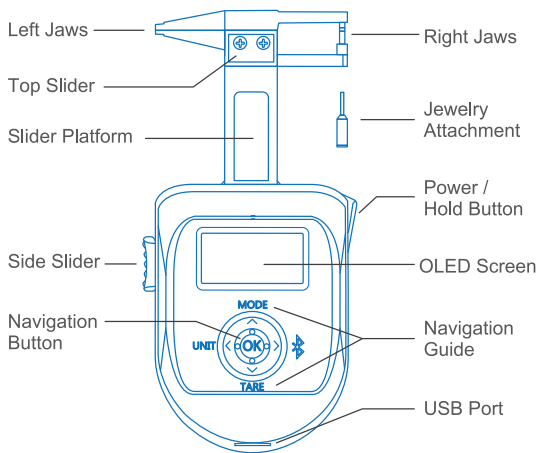
FEATURES

- Measures from 0.01 mm to 25.00 mm
- Measurement Accuracy 0.01 mm
- Digital millimeter (mm) and or carat (ct) display
- Inner and Outer Diameter Measurement
- Auto Off Function
- Attachment for mounted jewelry
- Weight Estimation of Gemstone in Carat with Specific Gravity
- Zero setting at any position

ADVANTAGES

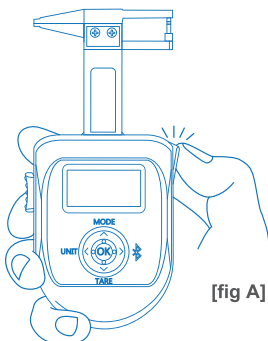
- 164 Gemstone types and 13 Gemstone cuts for weight estimation
- 4 way switch with center push for easy navigation
- Front and Side slider to ease the sliding of gauge jaw
- Capable to measure the dimensions of gemstone even on flat surface (as table gauge)
- Fast measurement display
- Readable and clear OLED Display
- Bluetooth Connectivity with IOS and Android Application (may use in getting weight estimation of diamond and issue certificates)
- Hold value function
- Powered by rechargeable Battery or Micro USB
- Over charging circuit protection
- Battery indicator

IV. DEVICE OVERVIEW



V. TURNING ON/OFF DEVICE

- SPPI has a built-in rechargeable battery as the power supply of the device.
- Press and Hold the Power Button at the right side of Gauge to turn ON / OFF the device [fig A]. If it is not turning ON, charge the battery using Micro USB Cable.
- Device will automatically be turned off during idle mode after 5 mins.



VI. BATTERY INDICATOR AND CHARGING

- SPPI has 5 Battery Levels that are located to the upper right side of the OLED Screen.
- Able to use the built-in rechargeable battery as the power supply and can be recharged using Micro USB.
- Battery Indicator while charging will have a thunder symbol beside it. Fully charged battery will display 5 levels in battery indicator without a thunder symbol.

VII. MEASUREMENT MODES

The default measurement mode is the Outer Measurement Mode. The standard unit (mm) will be displayed on screen and ready to measure. See the other Modes by pressing UP in the navigation button.

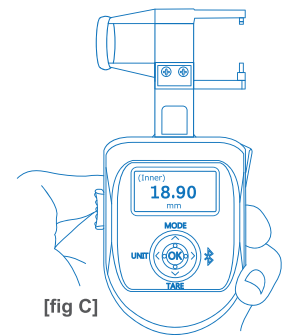
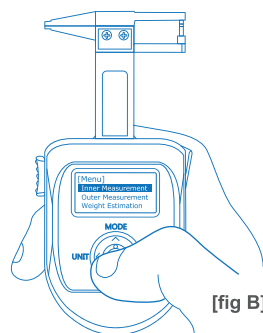
1. Inner Measurement Mode

- This mode is used for measuring the inside length or inner diameter of an object in millimeter (mm) unit.

- Note: Use the left Jaws of the gauge with flat top and bottom surface only to get a proper reading. Measurement range in this mode is from 2.41 mm to 27.40 mm.

Procedures:

- a. Choose Inner Measurement Mode by pressing UP in the navigation button then press OK to select [fig B].
- b. Measure inside length or inner diameter [fig C].

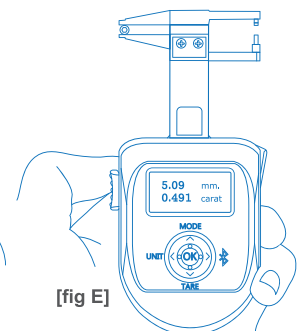
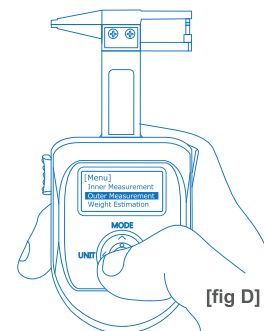


2. Outer Measurement Mode

- Measures the outer length or outer diameter of a gem.

Procedures:

- a. Choose Outer Measurement Mode by pressing UP in the navigation button then press OK to select [fig D].
- b. Measure the outer length or outer diameter of a gem [fig E].
- c. Change the unit by pressing LEFT in the navigation button. Carat unit is a direct conversion from mm. to carat of a round brilliant-cut diamonds as the basic cut.



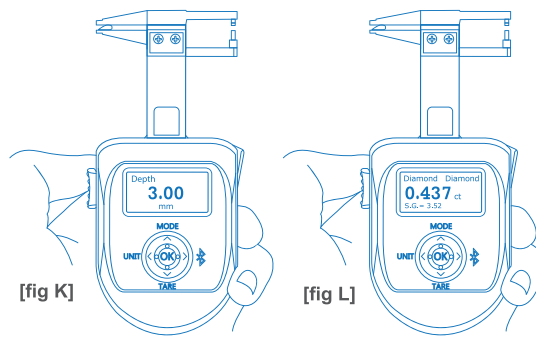
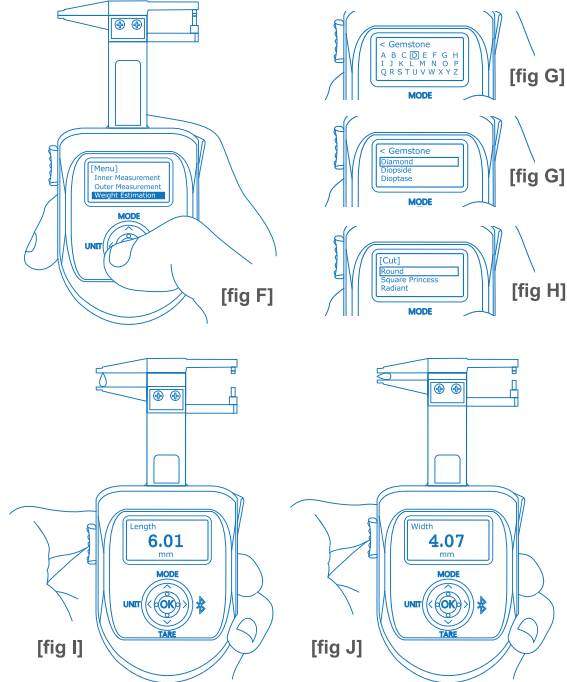
3. Weight Estimation Mode

- Estimate the weight of a gemstone (mounted or loose) by getting its dimensions. Gem type and cut. SPPI will automatically compute the estimated weight with its Specific Gravity Constant.
- This mode is very helpful in estimating the weight of a mounted gemstone without dismounting it from the ring.

Procedures:

- Choose Weight Estimation Mode by pressing UP in the navigation button then press OK to select [fig F].
- Select the type a gem to be tested [fig G].
- Select the type of cut of the gem [fig H].
- Measure the dimensions required [fig I,J,K].

After completing the steps the estimated weight of the gemstone and its Specific Gravity Constant will be displayed on the screen [fig L].



VIII. SPECIFIC GRAVITY OF SOME COMMON GEM MINERALS

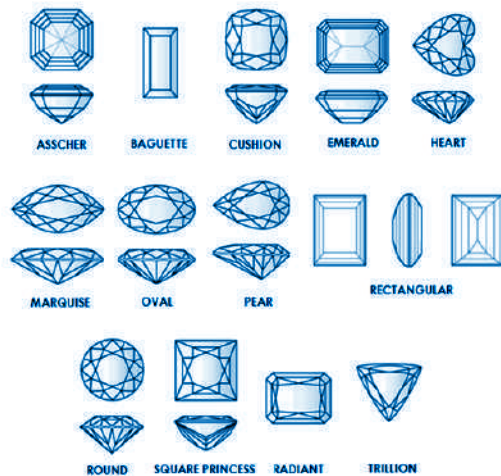
No.	Gem Mineral	Specific Gravity	No.	Gem Mineral	Specific Gravity
1	Agate	2.60 - 2.65	83	Kornerupine	3.32
2	Alexandrite	3.70 - 3.73	84	Kunzite (Spodumene)	3.16 - 3.20
3	Allianite	3.5 - 4.2	85	Kyanite	3.68
4	Almandine (Garnet)	4.97	86	Labradorite (Feldspar)	2.69
5	Amazonite (Feldspar)	2.56 - 2.58	87	Lapis Lazuli	2.8
6	Amber	1.08	88	Lazulite	3.09
7	Amblygonite	3.03	89	Leucite	2.47
8	Amethyst	2.63 - 2.65	90	Magnesite	3.00 - 3.12
9	Ametrine	2.63 - 2.65	91	Malachite	3.8
10	Anatase	3.88	92	Maw-Sit-Sit	2.50 to 3.50
11	Andalusite	3.12 - 3.18	93	Microlite (Feldspar)	2.56
12	Andesine (Feldspar)	2.68	94	Moissanite	3.17 to 3.24
13	Andradite (Garnet)	3.859	95	Moldavite	2.4
14	Apatite	3.21	96	Moonstone (Feldspar)	2.57
15	Apophyllite	2.30 - 2.50	97	Morganite (Beryl)	2.80 to 2.91
16	Aquamarine (Beryl)	2.67 - 2.71	98	Natrolite	2.22
17	Aventurine	2.62 - 2.65	99	Nephrite	2.90 - 3.04
18	Axinite	3.28	100	Obsidian	2.30 - 2.60
19	Azurite	3.8	101	Oligoclase (Feldspar)	2.64 to 2.66
20	Barite	4.5	102	Onyx	2.7
21	Bastnasite	4.98	103	Opal	2.1
22	Benitoite	3.67	104	Orthoclase (Feldspar)	2.6
23	Beryl	2.69	105	Pearl (cultured)	2.75
24	Beryllonite	2.82	106	Pearl (natural)	2.71
25	Bixbite (Beryl)	2.66 to 2.70	107	Peridot (Olivine)	3.34
26	Brazilianite	2.99	108	Petalite	2.39
27	Bronzite	3.3	109	Phenakite	2.96
28	Calcite	3.28	110	Prasiolite (Quartz)	2.65

29	Carnelian	2.82	111	Prehnite	2.87
30	Cassiterite	4.5	112	Proustite	5.57 - 5.64
31	Celestite	3.67	113	Purpurite	3.35
32	Cerussite	2.69	114	Pyrope (Garnet)	3.70
33	Chalcedony	2.82	115	Quartz	2.65
34	Chrome Diopside	3.22 to 3.38	116	Rhodizite	3.4
35	Chrysoberyl	3.5 to 3.84	117	Rhodochrosite	3.6
36	Chrysocola	2.00 to 2.45	118	Rhodolite (Garnet)	3.93 - 4.30
37	Chrysoptase	3.97 to 4.00	119	Rhodonite	3.6
38	Citrine	2.65	120	Ruby (Corundum)	3.97 - 4.08
39	Clinozoisite	3.3 to 3.4	121	Rutile	4.2
40	Colemanite	2.42	122	Sanidine (Feldspar)	2.57
41	Coral	2.6 to 2.7	123	Sapphire (Corundum)	3.99 - 4.00
42	Crocoite	5.90 to 6.10	124	Sapphirine	3.54 - 3.51
43	Cubic Zirconia	5.60 - 5.90	125	Scapolite	2.5 to 2.7
44	Cuprite	5.85 - 6.15	126	Scheelite	6
45	Danburite	3.00 - 3.07	127	Serpentine	2.40 - 2.80
46	Datolite	2.95	128	Sillimanite	3.25
47	Demantoid (Andradite)	3.82 - 3.85	129	Silver	10.5
48	Diamond	3.52	130	Sinhalite	3.48
49	Diopside	3.29	131	Smithsonite	4.35
50	Diopase	3.3	132	Sodalite	2.13 - 2.29
51	Dolomite	2.85 - 2.95	133	Spessartine (Garnet)	4.16
52	Dumortierite	3.26 - 3.41	134	Sphalerite	4.09
53	Ekanite	3.28	135	Sphene	3.53
54	Emerald (Beryl)	2.71	136	Spinel	3.6
55	Enstatite	3.27	137	Spodumene	3.18
56	Epidote	3.45	138	Staurolite	3.7
57	Euclase	3.1	139	Strontium Titanate	5.13
58	Fayalite (Olivine)	4.3	140	Taaffeite	3.61
59	Fibrolite (sillimanite)	3.25	141	Tantalite	5.18 - 8.20
60	Fire Opal	2	142	Tanzanite (Zoisite)	3.28 - 3.35
61	Fluorite	3.18	143	Thomsonite	2.35
62	Gahnite	3.98	144	Thulite (Zoisite)	3.10-3.38
63	Gahnospinel	3.97	145	Tiger eye (Quartz)	2.64 - 2.71
64	Glass (man-made)	3.15 - 4.20	146	Topaz (colorless)	3.56
65	Goshenite (Beryl)	2.69	147	Topaz (yellow)	3.53
66	Grossular (Garnet)	3.64	148	Tourmaline	3.02 - 3.26
67	Hackmanite	2.15 - 2.40	149	Tremolite	2.90 - 3.10
68	Hambergit	2.35	150	Tsavorite (Garnet)	3.49
69	Hauyne	2.4	151	Tugtupite	2.37 - 2.57
70	Heliodor (Beryl)	2.69	152	Turquoise	2.8
71	Hematite	5.05	153	Ulexite	1.95
72	Hemimorphite	3.45	154	Uvarovite (Garnet)	3.77
73	Hessonite (Garnet)	3.65	155	Vanadinite	6.6 and 7.2
74	Hiddenite (Spodumene)	3.16 - 3.20	156	Variscite	2.55
75	Howlite	2.53 - 2.59	157	Vesuvianite	3.35-3.45

76	Hydrogrossular (Garnet)	3.36 to 3.55	158	Vivianite	2.65
77	Hypersthene	3.45	159	Willemite	4.03
78	Idocrase	3.38	160	Wulfenite	6.70 - 7.00
79	Ilolite	2.59	161	Zincite	5.66
80	Ivory	1.7 - 2.0	162	Zircon, (colorless, blue)	4.69
81	Jadeite	3.34	163	Zircon, (green)	4.5
82	Jasper (Quartz)	2.58 - 2.91	164	Zoisite	3.1

IX. COMMON GEMSTONES CUTS

1. Asscher
2. Baguette
3. Cushion
4. Emerald
5. Heart
6. Marquise
7. Oval
8. Pear
9. Rectangular
10. Round
11. Square Princess
12. Radiant
13. Trillion

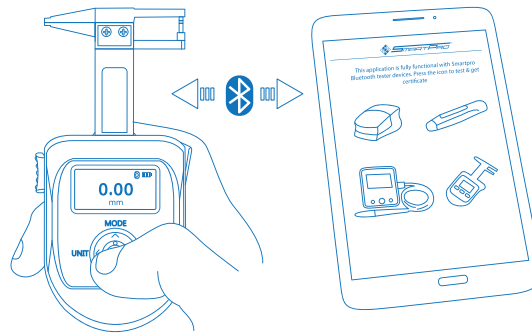


X. BLUETOOTH CONNECTIVITY

• The purpose of the Bluetooth connectivity of this device is to connect Smartpro Primo I to Smartpro IOS or Android Application that can be downloaded in Apple or Play Store. You can view the display during measurements on your mobile phone, tablet or can be mirrored on TV Screen by mobile. In Weight Estimation Mode, Smartpro Primo I may be used to add the estimation weight in carat in issuing Smartpro Certificate.

Turning ON/OFF Bluetooth

- Bluetooth can be turned off/on in Inner, Outer Measurement Mode and in Mode page list by pressing RIGHT of the navigation button. Bluetooth Logo will appear on the upper-right side of the screen if the Bluetooth is already turned ON.



XI. DIAMOND WEIGHT ESTIMATION CERTIFICATE

In order to add the estimation weight of the Diamond, the SPPI should be connected to the Smartpro Application before choosing the measurement mode.

Procedures:

- Open the Smartpro App using tablet or mobile phone. In the main page of the App., click the Primo I Tester Icon to proceed with the testing page.
- Turn ON the Bluetooth in the main device (SPPI) in Mode Page List by pressing RIGHT of the navigation button.
- Click "Connect" button in the Smartpro App. "Ready" voice will be heard indicating the Mobile App is ready to use.
- Select the Weight Estimation Mode by pressing OK.
- Select the type a gem to be tested.
- Select the type of cut of the gem.
- Measure the dimensions required.
- After completing the steps, the estimated weight of the gemstone and its Specific Gravity Constant will be displayed on both device and Smartpro App. User may click "Add Cert" to go to Certification then click "Diamond/CVD/HPHT/Moissanite Dossier".
- Take a photo of the Diamond or choose picture from your gallery.

- Fill up necessary details such as Seller Name, Grading Report, Color, Clarity, Mounted/Loose and Description to have complete details.
- Click "Get Certificate" to generate Smartpro Certificate. Picture of the Certificate will be automatically saved to your device gallery.
- You may view, share and send your certificate to other mobile application (Facebook, Line, Twitter, E-mail, etc.).

Note: Only Diamond and Moissanite's weight estimation may add in certificate to coincide with other Smartpro Diamond Testers.

Smartpro Certificate may only be generated if users one product of Smartpro with Bluetooth built-in.

XII. SAFE HANDLING INFORMATION

- Avoid exposing the SPPI to dusty and moisty place. This tester contains precise electrical circuits, so never attempt to open anything of the sealed parts except the lid of the battery compartment.
- If the SPPI is not going to be used for an extended amount of time, should to keep on its proper place.
- Always place the gauge on its protective box when not in use.
- Operating temperature of SPPI is designed to work in ambient temperatures between 32° and 95° F (0° and 35° C) and stored in temperatures between -4° and 113° F (-20° and 45° C). SPPI can be damaged and tester life shortened if stored or operated outside of these temperature ranges. Avoid exposing it to dramatic changes in temperature or humidity.

We thank you for purchasing SmartPro PRIMO-I (SPPI). Enjoy! SmartPro also recommends that you register your warranty by sending the warranty registration card to us or registering online at <http://www.smartproinstrument.com>

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