

Russian-made instrument to
prove natural origin of diamonds
ALROSA DIAMOND INSPECTOR

ALROSA
**DIAMOND
INSPECTOR**



ALROSA GROUP



**ALROSA
TECHNOLOGY**

TYPES OF DIAMOND IDENTIFICATION TOOLS&MACHINES

Pocket devices

(easy to use by one hand)

Examples: D-Screen, Adamas, Diamond Mate, Moissanite Tester, MultiTester, GemIndicator, Reader-I, Finder-I, DiamaPen и другие.



Portable devices

(easy to put in a bag)

Examples: ALROSA DIAMOND INSPECTOR, DiamondSure, DiamondPlus, DiamondSure Mount, Synthetic Diamond Screener, DuoTester, GemTester, Screen-I, GemEye-I, EXA



Desktop devices

Examples: DiamondView, Alpha Diamond Analyzer, DiamondChecker, GemmoRaman 532, GemmoFTIR, GemmoSphere, Diamond Professor



Stationary devices with automatic sorting

Examples : Automated Melee Screening 2, HRD M-Screen, SSEFASDI



Stationary devices with area (multiple stones) scanning without automatic sorting

Examples : D-Secure, D-Secure Plus, J-Secure, J-Secure Plus, D-View, DiaTrue, PhosView, SYNTHDetect



ALROSA DIAMOND INSPECTOR

ALROSA DIAMOND INSPECTOR
with metal frame



ALROSA DIAMOND INSPECTOR
with plastic frame



Advantages of ALROSA DIAMOND INSPECTOR: reliable, universal, user-friendly, no-special care needed, good price/quality ratio, portable instrument for identification of loose and mounted polished diamonds.

- ✓ **Application:** identification of natural, synthetic (HPHT, CVD), treated polished diamonds and non-diamond imitations (simulants: moissanite, cubic zirconia, spinel etc.)
- ✓ **Working principle:** 3 optical methods
- ✓ Ability to test loose stones or stones studded in jewelry pieces
- ✓ **Carat weight:** from 0,03 carat to 10 carat (diameter of the circular area is not less than 1.5 mm)
- ✓ **Color of polished diamond:** colorless or near-colorless (D-J)
- ✓ **Time of testing:** less than 1 minute per stone
- ✓ **Weight:** 3,1 kg with metal frame, 1,8 kg with plastic frame
- ✓ **Power supply:** by power adapter or power bank
- ✓ **Guarantee period:** 1 year

MARKET NIECHE OF ALROSA DIAMOND INSPECTOR

Device owner's level of competence and financial responsibility at the diamond market

Large distributors of diamonds

Gemologists

Retail networks

Retail stores

Pawn shops

Individuals

Stationary devices with automated sorting:
-price \$40 thou-\$350 thou.,
-for large diamanters, - results based on 1-2 analytical methods

Stationary (Lab) devices without automatic sorting :
price \$10 thou.-35 thou.,
for experts, result based on 1 analytical method

Stationary device with area scanning function:
- price \$5 thou.-18 thou.,
- for retails stores and networks, for gemologists;
- testing of diamonds studded in jewelry;
- various types of cut;
- result based on 1 analytical method,
- low functionality,

Pocket and portable devices: compact, light, mobile, design, price < \$1000, Internet sales, low reliability, low functionality, for non-professionals

ALROSA DIAMOND INSPECTOR
For gemologists, pawn shops, jewelry retail networks and stores with annual trading turnover above \$0,5 mln.



COMPARISON WITH OTHER MACHINES

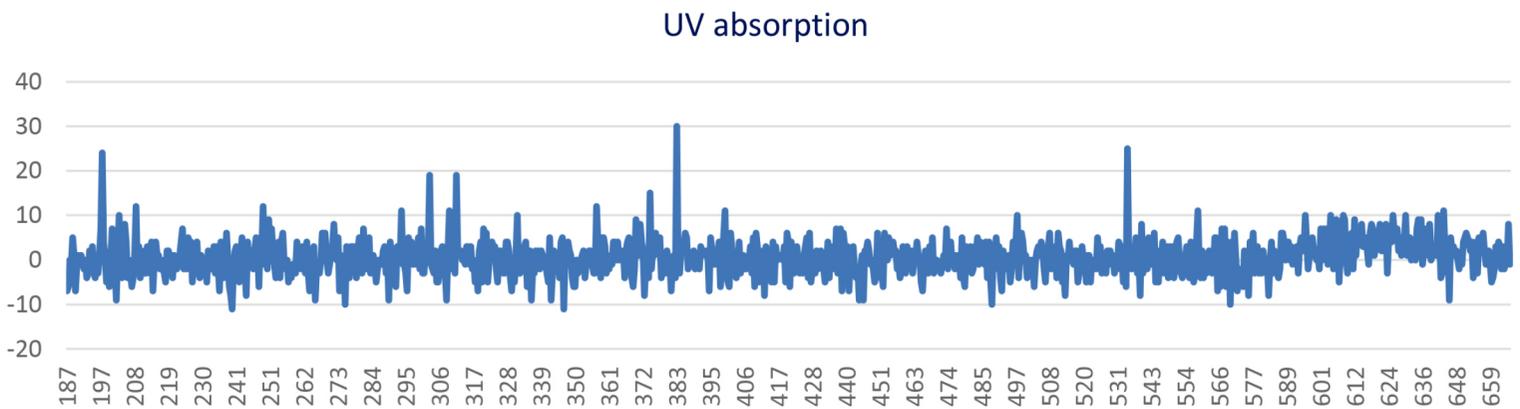
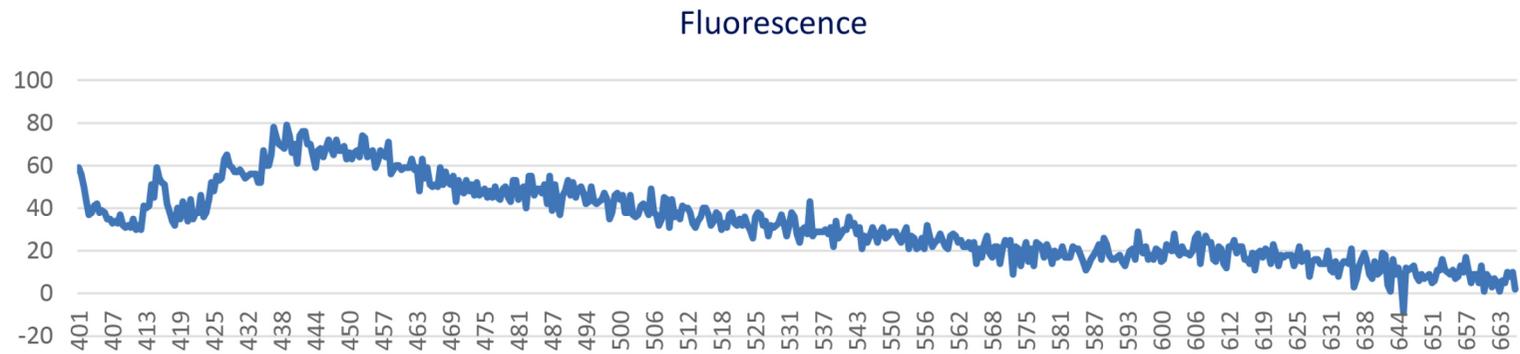
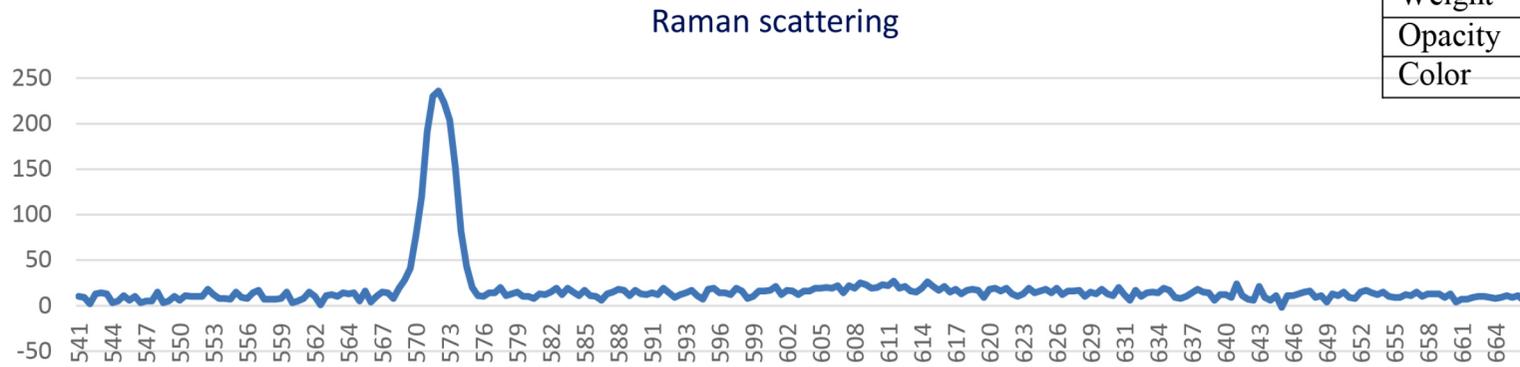
Name	Phos View	GIA iD100	ALROSA Diamond Inspector	Sherlock Holmes	EXA – The Natural Diamond	SYNTH Detect	Diamond Sure	Diamond Plus	Diamond View
Price	\$4,500	\$4,995	\$5,799	\$6,495	\$7,570	\$16,250	\$18,200	\$19,200	\$35,000
Simulants detection	No	No	Yes	No	No	No	No	No	No
Potential synthetics	Only HPHT	Yes	Yes	Yes	No	Yes	Yes	No	Yes
Treated diamonds detection	No	No	Yes	No	No	No	No	Yes	No
Mounted stones	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Automated sorting	No	No	No	No	No	No	No	No	No
Automated decision-making	No	Yes	Yes	No	Yes	No	Yes	Yes	No
Multiple stones testing	Yes	No	No	Yes	No	Yes	No	No	No
Expert knowledge of the user	Yes	No	No	Yes	Yes	Yes	No	No	Yes
Fantasy colors	No	No	No	No	Yes	No	No	No	Yes
Carat weight	0,03 - 1	0,005 - 10	0,03 - 10	0,01 -10	0,005 – No limit	No limit	0,05 - 10	0,05 - 10	0,01 - 10
Computer-connection	No need	No need	No need	No need	Needed	Needed	No need	No need	Needed
Styles of mounted stones	No	No	No	No	No	No	Yes	No	No
Device weight	7 kg	1,02 kg	1,8 or 3,1 kg	2,2 kg ⁵	3,4 kg	15 kg	2,8 kg	3 kg	13 kg

COMPARISON OF DETECTORS BY RESEARCH METHODS

Research method	ALROSA Diamond Inspector	GemmoRaman-532	Diamond Professor	PL3000	Synthetic Diamond Screener II	Automated Spectral Diamond Inspection	GemmoFtir	ALPHA II Diamond Analyzer	Sherlock Holmes	Diamond Plus	Diamond View	SYNTH Detect	Phos View	Dia True	EXA – The Natural Diamond Detector	J-Smart	PL Inspector, Jewellery Melee Inspector
SPECTROSCOPY OF RAMAN SCATTERING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>											
SPECTROSCOPY OF VISIBLE RANGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<input checked="" type="checkbox"/>		
EXPRESS ANALYSIS BY PL COLOR			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>								
SPECTROSCOPY OF OPTICAL ABSORPTION	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

SPECTRA OF ALROSA DIAMOND INSPECTOR

Stone name	NATURAL
Weight	0,31
Opacity	3
Color	2



Test results based on 6 criteria of 3 optical methods: **NATURAL**



ALROSA
TECHNOLOGY

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