



		ALROSA DIAMOND INSPECTOR	AMS2	ASDI	DiamondDect 3	DiamondDect 5 (HPHT only)	DiamondSure
<b>Test</b>	ASSURE test number	64815	678514	43461	893267	529748	463851
	Date of test report	07/2019	02/2019	05/2019	02/2019	02/2019	02/2019
<b>Manufacturer</b>	Manufacturer	ALROSA	De Beers Group Industry Services	SATTGEMS	Taidiam Technology	Taidiam Technology	De Beers Group Industry Services
	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner
<b>Dimensions</b>	Dimensions (cm)	W15 x D25 x H10	W31.5 x D40 x H55	W170 x D90 x H160	W22 x D20 x H12	W20 x D23 x H29	W17 x D26 x H10
	Weight (kg)	1.8/3.1	25	350	3	7	3.5
	Portability	Portable	Desktop	Stationary	Portable	Desktop	Portable
<b>Functionality</b>	Feed of stones	Manual	Automatic	Automatic	Manual	Manual	Manual
	Interpretation of results	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Dispensation of stones	Manual	Automatic	Automatic	Manual	Manual	Manual
	Multiple stones?	No	Yes	Yes	No	Yes	No
<b>Operation Category</b>	Synthetic diamonds	Refer	Detect	Refer	Detect	Refer (HPHT only)	Refer
	Diamond simulants	Detect	Detect	Refer	No	No	No
	Operation Category	3	3	2	1	1	1
<b>Stone Capabilities (manufacturer claimed)</b>	Weight (ct)	0.03 - 10	0.0033 - 0.20	0.002 - 0.20	0.005 - 10	0.005 - 10	0.05 - 10
	Colour	D-J	D-J	D-J	D-J	D-J	D-J
	Shape	All	All	Round	All	All	All
<b>Jewellery</b>	Jewellery?	Yes	No	No	Yes	Yes	Yes
<b>Operator</b>	Tests performed by novice or expert?	Novice operator	Novice operator	Novice operator	Novice operator	Novice operator	Novice operator
<b>Test Results ASSURE Core Sample</b>	Diamond False Positive Rate (%)	0%	0%	0%	0%	22.6%	0%
	Diamond Referral Rate (%)	3.6%	0.7%	6.4%	0.6%	8.4%	4.7%
	Diamond Accuracy (%)	96.4%	99.1%	93.6%	96.4%	91.6%	95.3%
	Synthetic Diamond False Positive Rate (%)	0%	0.1%	0%	3%	0%	0%
	Synthetic Diamond Referral Rate (%)	100%	29.1%	100%	0.5%	77.4%	100%
	Synthetic Diamond Accuracy (%)	n/a	70.9%	n/a	99.5%	n/a	n/a
	Diamond Simulant False Positive Rate (%)	0%	0.1%	0%			
	Diamond Simulant Referral Rate (%)	0%	1.0%	100%			
Diamond Simulant Accuracy (%)	100%	99.0%	n/a				
<b>Test Results ASSURE Smalls Sample</b>	Diamond False Positive Rate (%)		0%	0%	1.0%	9.4%	
	Diamond Referral Rate (%)		0.7%	6.8%	4.0%	2.2%	
	Diamond Accuracy (%)		98.9%	93.2%	90.6%	97.8%	
	Synthetic Diamond False Positive Rate (%)		0.1%	0%	5.5%	0%	
	Synthetic Diamond Referral Rate (%)		12.6%	100%	0.0%	90.6%	
	Synthetic Diamond Accuracy (%)		87.4%	n/a	99.0%	n/a	
	Diamond Simulant False Positive Rate (%)		0.3%	0%			
	Diamond Simulant Referral Rate (%)		0.5%	100%			
Diamond Simulant Accuracy (%)		99.5%	n/a				
<b>Test Results</b>	Speed (stones per hour)	24	2,677	6,511	289	557	193
<b>Price</b>	Price in USD (February 2019)	5,799	45,000	Contact SATTGEMS	5,730	5,730	18,200
<b>Contact</b>	Website	<a href="http://alrosa-inspector.com">alrosa-inspector.com</a>	<a href="http://debeersgroupservices.com">debeersgroupservices.com</a>	<a href="http://sattgems.com">sattgems.com</a>	<a href="http://taidiam.com">taidiam.com</a>	<a href="http://taidiam.com">taidiam.com</a>	<a href="http://debeersgroupservices.com">debeersgroupservices.com</a>
	Email	<a href="mailto:info@alrosa-inspector.com">info@alrosa-inspector.com</a>	<a href="mailto:debeersgroupservices.com/contact">debeersgroupservices.com/contact</a>	<a href="mailto:contact@sattgems.com">contact@sattgems.com</a>	<a href="mailto:yuanjioechihchun@gmail.com">yuanjioechihchun@gmail.com</a>	<a href="mailto:yuanjioechihchun@gmail.com">yuanjioechihchun@gmail.com</a>	<a href="mailto:debeersgroupservices.com/contact">debeersgroupservices.com/contact</a>
	Telephone number	+7 495 108 52 58	+44 207 858 7887	+41 61 260 24 00	+86 371 66869111	+86 371 66869111	+44 207 858 7887



		DiamondView	D-Secure+	G-Certain	GemPen	GIA iD100	GV5000
<b>Test</b>	ASSURE test number	217964	89764	63360	14933	75549	637294
	Date of test report	02/2019	05/2019	05/2019	05/2019	05/2019	02/2019
<b>Manufacturer</b>	Manufacturer	De Beers Group Industry Services	DRC Techno	Massive Tech Lab	Gemometrics	GIA	NGTC/Nanjing Baoguang Testing Technology
	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner
<b>Dimensions</b>	Dimensions (cm)	W20 x D40 x H25	W33.5 x D30.5 x H40.5	W30 x D30 x H37	W24 x D3.6 x H3.2	W16.5 x D20 x H8	W50 x D25 x H61
	Weight (kg)	13	22.5	12	0.4	1.02	17
	Portability	Desktop	Desktop	Stationary	Portable	Portable	Desktop
<b>Functionality</b>	Feed of stones	Manual	Manual	Manual	Manual	Manual	Manual
	Interpretation of results	Manual	Semi-automatic	Automatic	Manual	Automatic	Manual
	Dispensation of stones	Manual	Manual	Manual	Manual	Manual	Manual
	Multiple stones?	No	Yes	Yes	Yes	No	Yes
<b>Operation Category</b>	Synthetic diamonds	Detect	Detect	Detect	Detect	Refer	Detect
	Diamond simulants	No	No	No	No	Refer	Detect
	Operation Category	1	1	1	1	2	3
<b>Stone Capabilities</b> (manufacturer claimed)	Weight (ct)	0.05 - 10	0.003 +	0.001 - 10	0.00 +	0.005 +	0.002 - 20
	Colour	All	D-K	D-Z	All except yellow	D-J	D-N
	Shape	All	All	All	All	All	All
<b>Jewellery</b>	Jewellery?	Yes	No	Yes	Yes	Yes	Yes
<b>Operator</b>	Tests performed by novice or expert?	Expert operator	Expert operator	Novice operator	Expert operator	Novice operator	Expert operator
<b>Test Results</b> ASSURE Core Sample	Diamond False Positive Rate (%)	0%	14.1%	17.6%	15.1%	0%	1.0%
	Diamond Referral Rate (%)	0%	n/a	0.2%	n/a	3.3%	n/a
	Diamond Accuracy (%)	100%	94.7%	99.7%	98.7%	96.7%	98.5%
	Synthetic Diamond False Positive Rate (%)	0%	5.3%	0.1%	1.3%	0%	1.1%
	Synthetic Diamond Referral Rate (%)	0%	n/a	13.1%	n/a	100%	n/a
	Synthetic Diamond Accuracy (%)	100%	85.9%	69.3%	84.9%	n/a	97.5%
	Diamond Simulant False Positive Rate (%)					0%	0.6%
	Diamond Simulant Referral Rate (%)					100%	n/a
Diamond Simulant Accuracy (%)					n/a	98.0%	
<b>Test Results</b> ASSURE Smalls Sample	Diamond False Positive Rate (%)		3.1%	4.7%	4.7%	0%	0.3%
	Diamond Referral Rate (%)		n/a	0.6%	n/a	4.2%	n/a
	Diamond Accuracy (%)		96.4%	99.3%	99.5%	95.8%	97.5%
	Synthetic Diamond False Positive Rate (%)		3.6%	0.1%	0.5%	0%	1.4%
	Synthetic Diamond Referral Rate (%)		n/a	0%	n/a	100%	n/a
	Synthetic Diamond Accuracy (%)		96.9%	95.3%	95.3%	n/a	95.3%
	Diamond Simulant False Positive Rate (%)					0%	1.4%
	Diamond Simulant Referral Rate (%)					100%	n/a
Diamond Simulant Accuracy (%)					n/a	100%	
<b>Test Results</b>	Speed (stones per hour)	112	948	908	813	440	296
<b>Price</b>	Price in USD (February 2019)	35,000	11,999	9,999	2,300	4,995	43,200
<b>Contact</b>	Website	<a href="http://debeersgroupservices.com">debeersgroupservices.com</a>	<a href="http://drctechno.com">drctechno.com</a>	<a href="http://massivetechlab.com">massivetechlab.com</a>	<a href="http://gemometrics.com">gemometrics.com</a>	<a href="http://gia.edu/id100">gia.edu/id100</a>	<a href="http://bgvq.cn">bgvq.cn</a>
	Email	<a href="mailto:debeersgroupservices.com/contact">debeersgroupservices.com/contact</a>	<a href="mailto:info@drctechno.com">info@drctechno.com</a>	<a href="mailto:info@massivetechlab.com">info@massivetechlab.com</a>	<a href="mailto:info@gemometrics.com">info@gemometrics.com</a>	<a href="mailto:giastore@gia.edu">giastore@gia.edu</a>	<a href="mailto:sale@bgvq.cn">sale@bgvq.cn</a>
	Telephone number	+44 207 858 7887	+91 990 9990 884	+91 97699 72575	+46 72 44 99 05060	+1 760 603 4200	+86 25 84803536



		J.Certain	J.Detect 9000	J.Minor	J.Smart	M.Screen+	Sherlock Holmes
<b>Test</b>	ASSURE test number	94666	24193	43985	18549	274139	5169974
	Date of test report	05/2019	05/2019	05/2019	05/2019	05/2019	02/2019
<b>Manufacturer</b>	Manufacturer	Massive Tech Lab	DRC Techno	DRC Techno	DRC Techno	HRD Antwerp	Yehuda
	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner	ASSURE Partner
<b>Dimensions</b>	Dimensions (cm)	W43 x D34 x H52	W31.5 x D27.5 x H38	W16.5 x D25 x H15.5	W41 x D39.5 x H47.5	W45 x D30 x H55	W15 x D24 x H15
	Weight (kg)	22	14	6	30	45	2.2
	Portability	Stationary	Desktop	Portable	Desktop	Desktop	Portable
<b>Functionality</b>	Feed of stones	Manual	Manual	Manual	Manual	Automatic	Manual
	Interpretation of results	Automatic	Semi-automatic	Semi-automatic	Semi-automatic	Automatic	Manual
	Dispensation of stones	Manual	Manual	Manual	Manual	Automatic	Manual
	Multiple stones?	Yes	Yes	Yes	Yes	Yes	Yes
<b>Operation Category</b>	Synthetic diamonds	Detect	Refer	Detect	Detect	Refer	Detect
	Diamond simulants	No	No	No	No	Refer	No
	Operation Category	1	1	1	1	2	1
<b>Stone Capabilities</b> (manufacturer claimed)	Weight (ct)	0.002 - 10	0.003 +	0.003 +	0.003 +	0.005 - 0.20	0.00 +
	Colour	D-Z	D-K	D-K	D-K	D-J	D-K
	Shape	All	All	All	All	Round	All
<b>Jewellery</b>	Jewellery?	Yes	Yes	Yes	Yes	No	Yes
<b>Operator</b>	Tests performed by novice or expert?	Novice operator	Expert operator	Expert operator	Expert operator	Novice operator	Expert operator
<b>Test Results</b> ASSURE Core Sample	Diamond False Positive Rate (%)	19.6%	14.6%	15.6%	10.6%	0%	0%
	Diamond Referral Rate (%)	0.2%	18.6%	n/a	n/a	4.1%	n/a
	Diamond Accuracy (%)	99.7%	81.4%	93.9%	88.0%	95.9%	97.5%
	Synthetic Diamond False Positive Rate (%)	0.1%	0%	6.1%	12.0%	0%	2.5%
	Synthetic Diamond Referral Rate (%)	13.1%	85.4%	n/a	n/a	100%	n/a
	Synthetic Diamond Accuracy (%)	67.3%	n/a	84.4%	89.4%	n/a	100%
	Diamond Simulant False Positive Rate (%)					0%	
	Diamond Simulant Referral Rate (%)					100%	
Diamond Simulant Accuracy (%)					n/a		
<b>Test Results</b> ASSURE Smalls Sample	Diamond False Positive Rate (%)	5.8%	3.7%	1.6%	4.7%	0%	0%
	Diamond Referral Rate (%)	0.3%	9.7%	n/a	n/a	9.1%	n/a
	Diamond Accuracy (%)	99.3%	90.3%	77.0%	96.8%	90.9%	97.8%
	Synthetic Diamond False Positive Rate (%)	0.4%	0%	23.0%	3.2%	0%	2.2%
	Synthetic Diamond Referral Rate (%)	0.5%	96.3%	n/a	n/a	100%	n/a
	Synthetic Diamond Accuracy (%)	93.7%	n/a	98.4%	95.3%	n/a	100%
	Diamond Simulant False Positive Rate (%)					0%	
	Diamond Simulant Referral Rate (%)					100%	
Diamond Simulant Accuracy (%)					n/a		
<b>Test Results</b>	Speed (stones per hour)	792	679	935	1,103	12,317	530
<b>Price</b>	Price in USD (February 2019)	13,999	9,999	6,499	22,499	63,000	6,495
<b>Contact</b>	Website	<a href="http://massivetechlab.com">massivetechlab.com</a>	<a href="http://drctechno.com">drctechno.com</a>	<a href="http://drctechno.com">drctechno.com</a>	<a href="http://drctechno.com">drctechno.com</a>	<a href="http://hrdantwerp.com">hrdantwerp.com</a>	<a href="http://yehuda.com">yehuda.com</a>
	Email	<a href="mailto:info@massivetechlab.com">info@massivetechlab.com</a>	<a href="mailto:info@drctechno.com">info@drctechno.com</a>	<a href="mailto:info@drctechno.com">info@drctechno.com</a>	<a href="mailto:info@drctechno.com">info@drctechno.com</a>	<a href="mailto:equipment@hrdantwerp.com">equipment@hrdantwerp.com</a>	<a href="mailto:dror@yehuda.com">dror@yehuda.com</a>
	Telephone number	+91 97699 72575	+91 990 9990 884	+91 990 9990 884	+91 990 9990 884	+32 3 222 06 23	+1 800 934 8320



**ASSURE TESTED**  
Summary of Test Results  
2019/08/20

		SYNTHdetect	Synthetic Diamond Screener II	Leo
<b>Test</b>	ASSURE test number	375648	547682	85689
	Date of test report	02/2019	02/2019	03/2019
<b>Manufacturer</b>	Manufacturer	De Beers Group Industry Services	Presidium	Gemlogis
	ASSURE Partner	ASSURE Partner	ASSURE Partner	NOT an ASSURE Partner
<b>Dimensions</b>	Dimensions (cm)	W31 x D34 x H45.8	L13 x W10 x H6.5	n/a
	Weight (kg)	30	0.21	n/a
	Portability	Desktop	Portable	Portable
<b>Functionality</b>	Feed of stones	Manual	Manual	Manual
	Interpretation of results	Manual	Automatic	Automatic
	Dispensation of stones	Manual	Manual	Manual
	Multiple stones?	Yes	No	No
<b>Operation Category</b>	Synthetic diamonds	Refer	Refer	Refer
	Diamond simulants	Refer	No	Detect
	Operation Category	2	1	3
<b>Stone Capabilities</b> (manufacturer claimed)	Weight (ct)	0.001 - 100	0.02 - 10	0.01 - 12
	Colour	D-J	D-J	D-M
	Shape	All	All	All
<b>Jewellery</b>	Jewellery?	Yes	Yes	Yes
<b>Operator</b>	Tests performed by novice or expert?	Expert operator	Novice operator	Novice operator
<b>Test Results</b> ASSURE Core Sample	Diamond False Positive Rate (%)	0%	0%	4.6%
	Diamond Referral Rate (%)	0.7%	15.5%	3.7%
	Diamond Accuracy (%)	99.3%	84.5%	51.6%
	Synthetic Diamond False Positive Rate (%)	0%	0%	0%
	Synthetic Diamond Referral Rate (%)	100%	100%	52.3%
	Synthetic Diamond Accuracy (%)	n/a	n/a	n/a
	Diamond Simulant False Positive Rate (%)	0%		45.2%
	Diamond Simulant Referral Rate (%)	100%		0%
	Diamond Simulant Accuracy (%)	n/a		91.3%
<b>Test Results</b> ASSURE Smalls Sample	Diamond False Positive Rate (%)	0%		
	Diamond Referral Rate (%)	1.9%		
	Diamond Accuracy (%)	98.1%		
	Synthetic Diamond False Positive Rate (%)	0%		
	Synthetic Diamond Referral Rate (%)	100%		
	Synthetic Diamond Accuracy (%)	n/a		
	Diamond Simulant False Positive Rate (%)	0%		
Diamond Simulant Referral Rate (%)	100%			
Diamond Simulant Accuracy (%)	n/a			
<b>Test Results</b>	Speed (stones per hour)	583	240	
<b>Price</b>	Price in USD (February 2019)	18,500	599	
<b>Contact</b>	Website	<a href="http://debeersgroupservices.com">debeersgroupservices.com</a>	<a href="http://presidium.com.sg">presidium.com.sg</a>	
	Email	<a href="mailto:debeersgroupservices.com/contact">debeersgroupservices.com/contact</a>	<a href="mailto:sales@presidium.com.sg">sales@presidium.com.sg</a>	
	Telephone number	+44 207 858 7887	+65 6771 9760	