



ASSURE TESTED
Summary of ASSURE Test Results
2019/03/15

		AMS2	DiamondDect 3	DiamondDect 5 (HPHT only)	DiamondSure
	Manufacturer	De Beers Group Industry Services	Taidiam Technology	Taidiam Technology	De Beers Group Industry Services
Dimensions	Dimensions (cm)	W31.5 x D40 x H55	W22 x D20 x H12	W20 x D23 x H29	W17 x D26 x H10
	Weight (kg)	25	3	7	3.5
	Portability	Desktop	Portable	Desktop	Portable
Functionality	Feed of stones	Automatic	Manual	Manual	Manual
	Interpretation of results	Automatic	Automatic	Automatic	Automatic
	Dispensation of stones	Automatic	Manual	Manual	Manual
	Multiple stones?	Yes	No	Yes	No
Operation Category	Synthetic diamonds	Detect	Detect	Refer (HPHT only)	Refer
	Diamond simulants	Detect	n/a	n/a	n/a
	Operation Category	3	1	1	1
Stone Capabilities (manufacturer claimed)	Weight (ct)	0.0033 - 0.20	0.005 - 10	0.005 - 10	0.005 - 10
	Colour	D-J	D-J	D-J	D-J
	Shape	All	All	All	All
Jewellery	Jewellery?	No	Yes	Yes	Yes
Operator	Tests performed by novice or expert?	Novice operator	Novice operator	Novice operator	Novice operator
Performance Test Results (ASSURE Core Sample)	Diamond False Positive Rate (%)	0%	0%	22.6%	0%
	Diamond Accuracy (%)	99.1%	96.4%	91.6%	95.3%
	Diamond Referral Rate (%)	0.7%	0.6%	8.4%	4.7%
	Synthetic Diamond False Positive Rate (%)	0.1%	3%	0%	0%
	Synthetic Diamond Accuracy (%)	70.9%	99.5%	n/a	n/a
	Synthetic Diamond Referral Rate (%)	29.1%	0.5%	77.4%	100%
	Diamond Simulant False Positive Rate (%)	0.1%	n/a	n/a	n/a
	Diamond Simulant Accuracy (%)	99.0%	n/a	n/a	n/a
	Diamond Simulant Referral Rate (%)	1.0%	n/a	n/a	n/a
	Speed (stones per hour)	2,677	289	557	193
Price	Price in USD (February 2019)	45,000	5,730	5,730	18,200
Contact	Website	iidgr.com/innovation	taidiam.com	taidiam.com	iidgr.com/innovation
	Email	info@iidgr.com	yuanjoechihchun@gmail.com	yuanjoechihchun@gmail.com	info@iidgr.com
	Telephone number	+44 207 858 7887	+86 371 66869111	+86 371 66869111	+44 207 858 7887



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		DiamondView	GIA iD100	GV5000	M-Screent+
	Manufacturer	De Beers Group Industry Services	GIA	NGTC/Nanjing Baoguang Testing Technology	HRD Antwerp
Dimensions	Dimensions (cm)	W20 x D40 x H25	W16.5 x D20 x H8	W50 x D25 x H61	W45 x D30 x H55
	Weight (kg)	13	1.02	17	45
	Portability	Desktop	Portable	Desktop	Desktop
Functionality	Feed of stones	Manual	Manual	Manual	Automatic
	Interpretation of results	Manual	Automatic	Manual	Automatic
	Dispensation of stones	Manual	Manual	Manual	Automatic
	Multiple stones?	No	No	Yes	Yes
Operation Category	Synthetic diamonds	Detect	Refer	Detect	Refer
	Diamond simulants	n/a	Refer	Detect	Refer
	Operation Category	1	2	3	2
Stone Capabilities (manufacturer claimed)	Weight (ct)	0.01 - 10	0.005+	0.002 - 20	0.005 - 0.20
	Colour	All	D-J	D-N	D-J
	Shape	All	All	All	Round
Jewellery	Jewellery?	Yes	Yes	Yes	No
Operator	Tests performed by novice or expert?	Expert operator	Novice operator	Expert operator	Novice operator
Performance Test Results (ASSURE Core Sample)	Diamond False Positive Rate (%)	0%	0%	1.0%	0%
	Diamond Accuracy (%)	100%	89.9%	98.5%	95.9%
	Diamond Referral Rate (%)	0%	10.1%	n/a	4.1%
	Synthetic Diamond False Positive Rate (%)	0%	0%	1.1%	0%
	Synthetic Diamond Accuracy (%)	100%	n/a	97.5%	n/a
	Synthetic Diamond Referral Rate (%)	0%	100%	n/a	100%
	Diamond Simulant False Positive Rate (%)	n/a	0%	0.6%	0%
	Diamond Simulant Accuracy (%)	n/a	n/a	98.0%	n/a
	Diamond Simulant Referral Rate (%)	n/a	100%	n/a	100%
Speed (stones per hour)	112	440	296	12,317	
Price	Price in USD (February 2019)	35,000	4,995	43,200	63,000
Contact	Website	iidgr.com/innovation	gia.edu/id100	bgva.cn	hrdantwerp.com
	Email	info@iidgr.com	giastore@gia.edu	sale@bgva.cn	equipment@hrdantwerp.com
	Telephone number	+44 207 858 7887	+1 760 603 4200	+86 25 84803536	+32 3 222 06 23



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		Sherlock Holmes	SYNTHdetect	Synthetic Diamond Screener II
	Manufacturer	Yehuda	De Beers Group Industry Services	Presidium
Dimensions	Dimensions (cm)	W15 x D24 x H15	W31 x D34 x H45.8	L13 x W10 x H6.5
	Weight (kg)	2.2	30	0.21
	Portability	Portable	Desktop	Portable
Functionality	Feed of stones	Manual	Manual	Manual
	Interpretation of results	Manual	Manual	Automatic
	Dispensation of stones	Manual	Manual	Manual
	Multiple stones?	Yes	Yes	No
Operation Category	Synthetic diamonds	Detect	Refer	Refer
	Diamond simulants	n/a	Refer	n/a
	Operation Category	1	2	1
Stone Capabilities (manufacturer claimed)	Weight (ct)	0.00 +	0.001 - 100	0.02 - 10
	Colour	D-K	D-J	D-J
	Shape	All	All	All
Jewellery	Jewellery?	Yes	Yes	Yes
Operator	Tests performed by novice or expert?	Expert operator	Expert operator	Novice operator
Performance Test Results (ASSURE Core Sample)	Diamond False Positive Rate (%)	0%	0%	0%
	Diamond Accuracy (%)	97.5%	99.3%	84.5%
	Diamond Referral Rate (%)	n/a	0.7%	15.5%
	Synthetic Diamond False Positive Rate (%)	2.5%	0%	0%
	Synthetic Diamond Accuracy (%)	100%	n/a	n/a
	Synthetic Diamond Referral Rate (%)	n/a	100%	100%
	Diamond Simulant False Positive Rate (%)	n/a	0%	n/a
	Diamond Simulant Accuracy (%)	n/a	n/a	n/a
	Diamond Simulant Referral Rate (%)	n/a	100%	n/a
Speed (stones per hour)	530	TBD	240	
Price	Price in USD (February 2019)	6,495	17,000	599
Contact	Website	yehuda.com	iidgr.com/innovation	presidium.com.sg
	Email	dror@yehuda.com	info@iidgr.com	sales@presidium.com.sg
	Telephone number	+1 800 934 8320	+44 207 858 7887	+65 6771 9760



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