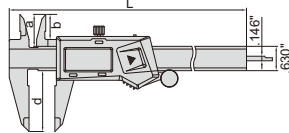


ELECTRONIC CALIPERS (STANDARD TYPE, NON-WATERPROOF)



1108-150

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable



Part No.	Range	Accuracy	L	a	b	d	List Price (\$)	Sale Price (\$)
1108-150*	0-6"/0-150mm	±.0010"	9.291"	.827"	.630"	1.575"	63.10	53.6
1108-200*	0-8"/0-200mm	±.0015"	11.260"	.945"	.748"	1.969"	93.30	79.3
1108-300*	0-12"/0-300mm	±.0015"	15.748"	.984"	.807"	2.362"	141.00	120

*Supplied with manufacturer inspection certificate traceable to NIST

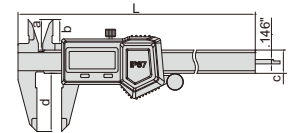
ELECTRONIC WATERPROOF CALIPERS



1118-150B

- Accuracy ±.0015"
- IP67 dust/waterproof
- Resolution .0005"/0.01mm
- Button function: zero, on/off, inch/mm, ABS/REL, hold
- Battery CR2032
- Made of stainless steel

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME



Part No.	Range	L	a	b	c	d	List Price (\$)	Sale Price (\$)
1118-150B*	0-6"/0-150mm	9.291"	.827"	.630"	.630"	1.575"	193.00	164.00
1118-200B*	0-8"/0-200mm	11.260"	.945"	.748"	.630"	1.969"	295.00	251.00
1118-300B*	0-12"/0-300mm	15.748"	.984"	.807"	.669"	2.362"	353.00	300.00

*Supplied with manufacturer inspection certificate traceable to NIST

DIAL CALIPERS

- Shockproof dial indicator
- Made of stainless steel



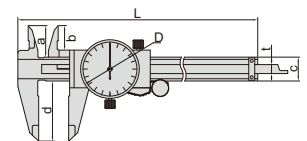
1311-6



Dial indicator graduation .001"

Part No.	Range	Accuracy	L	a	b	c	d	D	t	List Price (\$)	Sale Price (\$)
1311-6*	0-6"	±.0015"	9.252"	.827"	.650"	.630"	1.575"	1.535" DIA	.256"	62.90	53.50
1311-8*	0-8"	±.0020"	11.339"	.945"	.748"	.630"	1.890"	1.535" DIA	.256"	83.50	71.00
1311-12*	0-12"	±.0020"	16.142"	1.102"	.866"	.787"	2.441"	1.752" DIA	.295"	147.00	125.00

*Supplied with manufacturer inspection certificate traceable to NIST

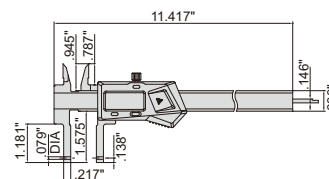
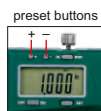


ELECTRONIC CALIPER WITH INTERCHANGEABLE POINTS (NON-WATERPROOF) PART NO. 1526-200



1526-200

- Supplied with 3 pairs of points and zero setting block for external measurement
- Resolution .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: points, depth stop, data output cable



Part No.	List Price (\$)	Sale Price (\$)
1526-200	426.00	362.00

Point	Range	Accuracy	Application
short spherical points	.5-8.5"/12-212mm (internal)	±.0015"	for grooves inside small hole
long spherical/flat points	1-8.8"/24-224mm (internal) 0-7.5"/0-187mm (external)	±.0015"	spherical points for grooves inside hole flat points for external grooves
spherical blade points	1-8.8"/24-224mm (internal) 0-7.5"/0-187mm (external)	±.0015"	for narrow grooves inside hole

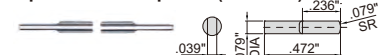
short spherical points (included)



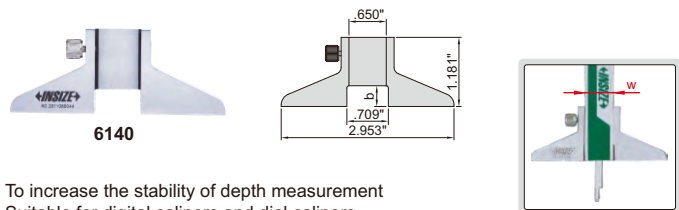
long spherical/flat points (included)



spherical blade points (included)



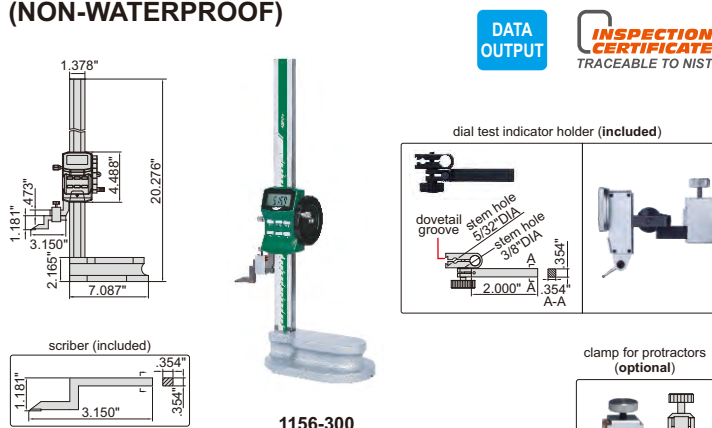
DEPTH BASE ATTACHMENT



- To increase the stability of depth measurement
- Suitable for digital calipers and dial calipers
- Made of stainless steel

Part No.	Application	b	List Price (\$)	Sale Price (\$)
6140	suitable for calipers with beam width (w) .630"	.354"	23.60	20.10

ELECTRONIC HEIGHT GAGE WITH DRIVING WHEEL (NON-WATERPROOF)



- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, preset (+, -), hold
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
- Battery CR2032, data output
- Supplied with dust cover
- With dial test indicator holder
- Optional accessory: data output cable, clamp for protractors (part no. 2372-CLAMP)

Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
1156-300*	0-12"/0-300mm	±.0015"	615.00	523.00

*Supplied with manufacturer inspection certificate traceable to NIST

ELECTRONIC DEPTH GAGE WITH MOUNTING HOLES FOR EXTENSION BASE (NON-WATERPROOF)



- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable, extension base

Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
1147-200	0-8"/0-200mm	±.0015"	180.00	153.00

ELECTRONIC OUTSIDE MICROMETER (BASIC TYPE, WITHOUT DATA OUTPUT)



- Resolution .00005"/0.001mm
- Button functions: on/off, set, inch/mm, ABS/INC
- No data output, friction thimble
- LR44 battery, automatic power off
- Carbide measuring faces
- Supplied with spherical anvil

Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
3109-25E*	0-1"/0-25mm	±.00010"	116.00	98.60

*Supplied with manufacturer inspection certificate traceable to NIST

OUTSIDE MICROMETERS

- Graduation .0001"
- Carbide measuring faces
- Ratchet stop type
- Supplied with setting standards (except 0-1")

Individual

Part No.	Range	Accuracy	L	a	b	List Price (\$)	Sale Price (\$)
3203-1A*	0-1"	.00015"	1.260"	.354"	1.102"	40.40	34.30
3203-2A*	1-2"	.00015"	2.244"	.551"	1.496"	45.10	38.30
3203-3A*	2-3"	.00020"	3.228"	.591"	1.929"	50.20	42.70
3203-4A*	3-4"	.00020"	4.213"	.591"	2.362"	56.50	48.00

Set

Part No.	Range	Micrometers included	Packaging	List Price (\$)	Sale Price (\$)
3203-33A*	0-3"	3203-1A, 3203-2A, 3203-3A	blow mould case	119.00	101.00
3203-44A*	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4A	blow mould case	175.00	149.00
3203-66A*	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	blow mould case	309.00	263.00

*Supplied with manufacturer inspection certificate traceable to NIST

INSPECTION
CERTIFICATE
TRACEABLE TO NIST

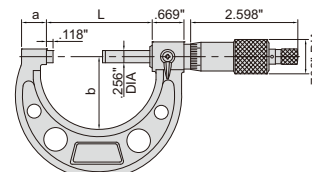
INSIZE
ISO17025 CERTIFICATE
AVAILABLE AT
EXTRA CHARGE
(REFER TO BACK COVER)



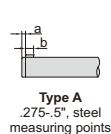
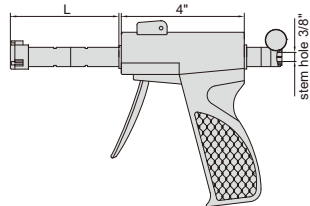
3203-2A



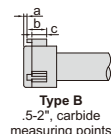
3203-44A



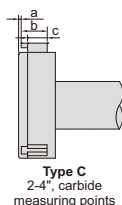
PISTOL GRIP THREE POINT BORE GAGES



electronic indicator
is optional



electronic indicator
is optional



electronic indicator
is optional

- Optional accessory: digital indicators (part no. 2108-101EF, resolution .00005"/0.001mm)



Individual

Part No.	Range	Type	Accuracy	Setting ring (included)	Extension rod (included)	L	a	b	c	List Price (\$)	Sale Price (\$)
2124-E035 *	.275-.35"	A	.00015"	.275" DIA	4"	2"	.059"	.098"	—	551.00	468.00
2124-E0425 *	.35-.425"	A	.00015"	.35" DIA	4"	2"	.059"	.098"	—	540.00	459.00
2124-E05 *	.425-.5"	A	.00015"	.5" DIA	4"	2"	.059"	.098"	—	573.00	487.00
2124-E065 *	.5-.65"	B	.00015"	.65" DIA	6"	2.6"	.020"	.236"	.177"	579.00	492.00
2124-E08 *	.65-.8"	B	.00015"	.65" DIA	6"	2.6"	.020"	.236"	.177"	614.00	522.00
2124-E1 *	.8-1"	B	.00015"	1" DIA	6"	3.64"	.020"	.315"	.236"	654.00	556.00
2124-E112 *	1-1.2"	B	.00015"	1" DIA	6"	3.64"	.020"	.315"	.236"	697.00	592.00
2124-E16 *	1.2-1.6"	B	.00015"	1.6" DIA	6"	3.88"	.020"	.551"	.472"	749.00	637.00
2124-E2 *	1.6-2"	B	.00020"	1.6" DIA	6"	3.88"	.020"	.551"	.472"	798.00	678.00
2124-E25 *	2-2.5"	C	.00020"	2.5" DIA	6"	4.48"	.020"	.689"	.571"	864.00	734.00
2124-E3 *	2.5-3"	C	.00020"	2.5" DIA	6"	4.48"	.020"	.689"	.571"	921.00	783.00
2124-E35 *	3-3.5"	C	.00020"	3.5" DIA	6"	4.48"	.020"	.689"	.571"	980.00	833.00
2124-E4 *	3.5-4"	C	.00020"	3.5" DIA	6"	4.48"	.020"	.689"	.571"	1043.00	887.00

*Supplied with manufacturer inspection certificate

setting rings are included



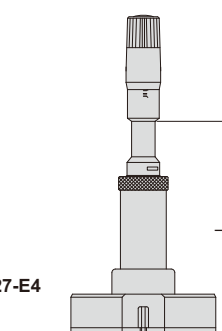
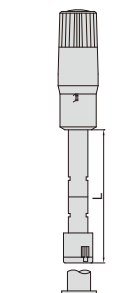
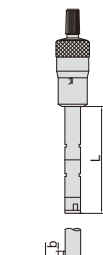
extension rods are included



THREE POINTS INTERNAL MICROMETERS



- .275-.5": graduation .0001"
- .5-4": graduation .0002"
- Ratchet stop
- Optional accessory: micrometer stand and clamp (part no. 6301 and 6301-2)



Individual

Part No.	Range	Type	Accuracy	Setting ring (included)	Extension rod (included)	L	a	b	c	List Price (\$)	Sale Price (\$)
3227-E035 *	.275-.35"	A	.00015"	.275" DIA	4"	2.146"	.059"	.098"	—	497.00	422.00
3227-E0425 *	.35-.425"	A	.00015"	.35" DIA	4"	2.146"	.059"	.098"	—	497.00	422.00
3227-E05 *	.425-.5"	A	.00015"	.5" DIA	4"	2.146"	.059"	.098"	—	497.00	422.00
3227-E065 *	.5-.65"	B	.00015"	.65" DIA	6"	3.150"	.020"	.236"	.177"	376.00	320.00
3227-E08 *	.65-.8"	B	.00015"	.65" DIA	6"	3.150"	.020"	.236"	.177"	376.00	320.00
3227-E1 *	.8-1"	B	.00015"	1" DIA	6"	3.543"	.020"	.315"	.236"	527.00	448.00
3227-E112 *	1-1.2"	B	.00015"	1" DIA	6"	3.543"	.020"	.315"	.236"	527.00	448.00
3227-E16 *	1.2-1.6"	B	.00015"	1.6" DIA	6"	3.819"	.020"	.551"	.472"	568.00	483.00
3227-E2 *	1.6-2"	B	.00020"	1.6" DIA	6"	3.819"	.020"	.551"	.472"	659.00	560.00
3227-E25 *	2-2.5"	C	.00020"	2.5" DIA	6"	4.488"	.020"	.689"	.571"	715.00	608.00
3227-E3 *	2.5-3"	C	.00020"	2.5" DIA	6"	4.488"	.020"	.689"	.571"	766.00	651.00
3227-E35 *	3-3.5"	C	.00020"	3.5" DIA	6"	4.488"	.020"	.689"	.571"	801.00	681.00
3227-E4 *	3.5-4"	C	.00020"	3.5" DIA	6"	4.488"	.020"	.689"	.571"	833.00	708.00

setting rings are included



extension rods are included



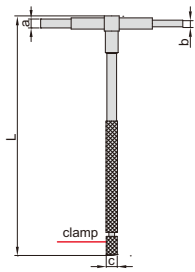
Set

Part No.	Range	Micrometers included	Setting ring (included)	Extension rod (included)	List Price (\$)	Sale Price (\$)
3227-E053 *	.275-.5"	.275-.35", .35-.425", .425-.5"	.275" DIA, .35" DIA, .5" DIA	4"	1389.00	1181.00
3227-E082 *	.5-.8"	.5-.65", .65-.8"	.65" DIA	6"	699.00	594.00
3227-E24 *	.8-2"	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"	1995.00	1696.00
3227-E44 *	2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"	2660.00	2261.00

*Supplied with manufacturer inspection certificate



TELESCOPING GAGE SET

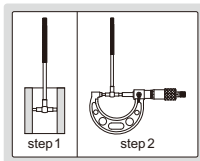


- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish



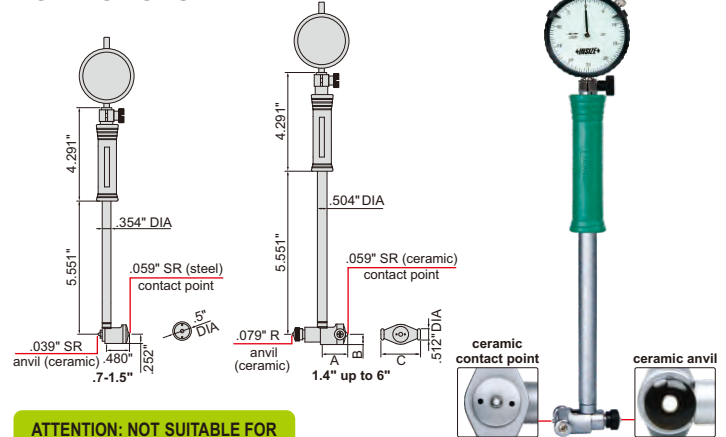
4206-1

Range	L	a	b	c
5/16~1/2"	4.528"	.154" DIA	.114" DIA	.244" DIA
1/2~3/4"	4.528"	.209" DIA	.150" DIA	.244" DIA
3/4~1-1/4"	4.528"	.209" DIA	.150" DIA	.244" DIA
1-1/4~2-1/8"	5.394"	.299" DIA	.240" DIA	.283" DIA
2-1/8~3-1/2"	5.394"	.299" DIA	.240" DIA	.283" DIA
3-1/2~6"	5.394"	.299" DIA	.240" DIA	.283" DIA



Part No.	Total range	Gages included	List Price (\$)	Sale Price (\$)
4206-1	5/16~6"	5/16~1/2", 1/2~3/4", 3/4~1-1/4", 1-1/4~2-1/8", 2-1/8~3-1/2", 3-1/2~6"	47.20	40.10

BORE GAGES



ATTENTION: NOT SUITABLE FOR .00005" OR .0001" DIAL INDICATORS

- Optional accessory: setting ring (part no. 6313), long handle (part no. 7351)

Range	A	B	C
1.4-2.4"	.866"	.354"	1.063"
2-6"	1.024"	.354"	1.378"

With dial indicator

Part No.	Range	Indicator	Accuracy	Repeatability	List Price (\$)	Sale Price (\$)
2323-15	.7-1.5"	dial indicator range .25" graduation .0005"	±.00075"	.00015"	210.00	179.00
2323-24	1.4-2.4"	dial indicator range .25" graduation .0005"	±.0009"	.00015"	192.00	163.00
2323-6	2-6"	dial indicator range .25" graduation .0005"	±.0009"	.00015"	202.00	172.00

BORE GAGE SETS

ATTENTION: NOT SUITABLE FOR .00005" OR .0001" DIAL INDICATORS

- Repeatability .00015"
- Dial indicator: range .25", graduation .0005"
- Optional accessory: setting ring (part no. 6313), long handle (part no. 7351)

packaging (part no. 2824-S3E)



Part No.	Range	Bore gages included	Accuracy	List Price (\$)	Sale Price (\$)
2824-S2E	1.4-6"	① 1.4-2" (dial indicator and handle are not included) ② 2-6"	1.4-2" ±.0009" 2-6" ±.0009"	231.00	196.00
2824-S3E	.7-6"	① .7-1.5" ② 1.4-2.4" (dial indicator is not included) ③ 2-6" (dial indicator is not included)	.7-1.5" ±.00075" 1.4-2.4" ±.0009" 2-6" ±.0009"	526.00	447.00



2824-S2E

2824-S3E

ELECTRONIC INDICATOR (STANDARD TYPE)

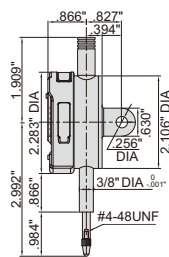
DATA OUTPUT

INSPECTION
CERTIFICATE
TRACEABLE TO NIST



2112-10E

- Accuracy ±.0015", hysteresis .0005"
- Meet ASME B89.1.10M-2001
- Button function: on/off, inch/mm, zero
- CR2032 battery, automatic power off
- Data output, lug back
- Optional accessory: data output cable, backs, contact points



spindle lift knob is included



Part No.	Range	Resolution	List Price (\$)	Sale Price (\$)
2112-10E*	.5"/12.7mm	.0005"/0.01mm	138.00	117.00

*Supplied with manufacturer inspection certificate traceable to NIST

DIAL INDICATOR

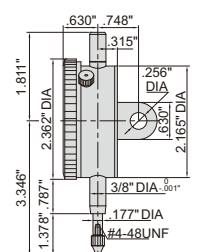
INSIZE
ISO17025 CERTIFICATE
AVAILABLE AT
EXTRA CHARGE
(REFER TO BACK COVER)



2307-1

- Graduation .001"
- Meet ASME B89.1.10M-2001
- Lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

INSPECTION
CERTIFICATE
TRACEABLE TO NIST



Part No.	Range	Accuracy	Range /rev	Dial reading	List Price (\$)	Sale Price (\$)
2307-1*	1"	First 2.5 rev ±.001" Overall ±.002"	.1"	0-100	37.40	31.80

*Supplied with manufacturer inspection certificate traceable to NIST

DIAL TEST INDICATORS



- Dial reading: 0-15-0
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: stylus

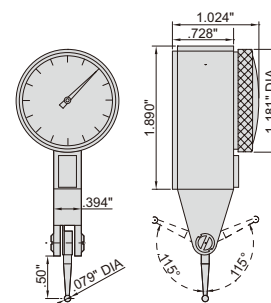


2380-31



Part No.	Range	Graduation	Accuracy	List Price (\$)	Sale Price (\$)
2380-31*	.03"	.001"	±.001"	80.30	68.30
2380-35*	.03"	.0005"	±.0005"	100.00	85.00

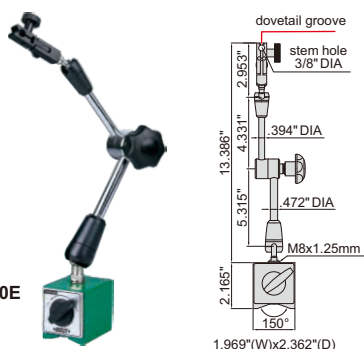
* Supplied with manufacturer inspection certificate traceable to NIST



UNIVERSAL MAGNETIC STAND

- For digital/dial indicators and dial test indicator
- With fine adjustment and dovetail groove

6210-80E



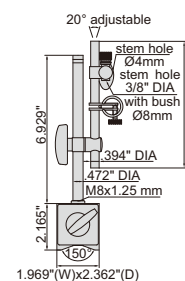
Part No.	Magnetic force	Applicable holding stem	List Price (\$)	Sale Price (\$)
6210-80E	176lbf	3/8" DIA	167.00	142.00

MAGNETIC STAND

- Applicable holding stem:
3/8" DIA, Ø8mm, Ø4mm
- For electronic/dial indicators
and dial test indicators

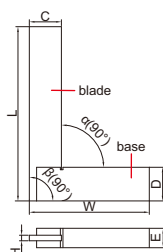


6201-60



PartNo.	Magnetic force	Remark	List Price (\$)	Sale Price (\$)
6201-60	132lbf	with fine adjustment	30.50	25.90

MACHINIST SQUARES WITH WIDE BASE (ECONOMIC TYPE)



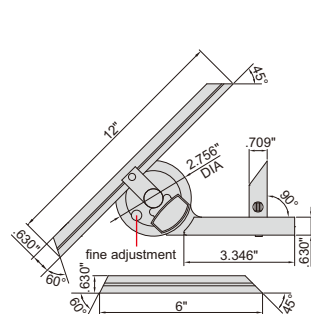
- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardened

Part No.	Size (LxW)	Squareness		C	D	H	E	List Price (\$)	Sale Price (\$)
		Inside (α)	Outside (β)						
4707-100	3.9x2.8"	1.10mil	1.18mil	.748"	.748"	.118"	.472"	22.40	19.00
4707-150	6x4"	1.30mil	1.38mil	.984"	.984"	.118"	.630"	31.60	26.90
4707-200	8x5"	1.46mil	1.58mil	1.181"	1.260"	.157"	.630"	55.10	46.80
4707-300	12x8"	1.85mil	1.97mil	1.260"	1.260"	.157"	.748"	82.60	70.20

**ATTENTION: NO ANTI-RUST
TREATMENT. NOT HARDEND**

**ATTENTION:
LOW ACCURACY**

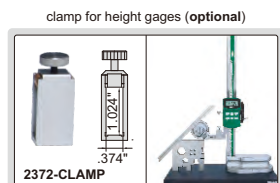
UNIVERSAL PROTRACTOR



6" blade is included



2372-360



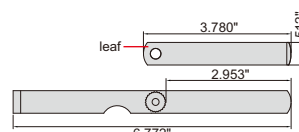
- Graduation 5', accuracy $\pm 5'$
- Parallax-free reading
- Made of stainless steel
- Optional accessory: clamp (part no. **2372-CLAMP**), suitable for height gages **1156, 1351 and 1250**

Part No.	Range	List Price (\$)	Sale Price (\$)
2372-360	0-360°	115.00	97.80

FEELER GAGE



4608-31



- .010" is made of brass, others are made of hardened alloy steel
- Each blade is marked with inch/metric size

Part No.	Range	Quantity of Leaves	List Price (\$)	Sale Price (\$)
4608-31	0015"~ 035"	32	10.90	9.27

Thickness of leaves included	Accuracy
.010" (brass)	±.00039"
.0015", .002"	±.0002"
.0025", .003", .004", .005", .006", .007"	±.00028"
.008", .009"	±.00035"
.010", .011"	±.00039"
.012", .013"	±.00047"
.014", .015"	±.00051"
.016", .017"	±.00055"
.018", .019"	±.00059"
.020", .021"	±.00067"
.022", .023"	±.00071"
.024", .025", .026"	±.00075"
.028"	±.00091"
.030"	±.00094"
.032", .035"	±.00102"

3-PIECE MEASURING TOOL SET

Includes:

- 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (part no. **1108-150**)
- 2) Outside micrometer, range 0-1", graduation .0001" (part no. **3202-1**)
- 3) Steel rule, 6"/150mm (part no. **7110-150**)



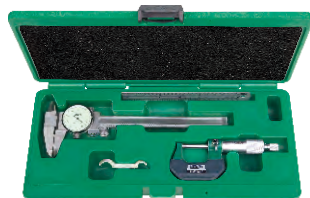
5003-1E

Part No.	List Price (\$)	Sale Price (\$)
5003-1E	109.00	92.70

3-PIECE MEASURING TOOL SET

Includes:

- 1) Dial caliper, range 0-6", graduation .001" (part no. **1311-6**)
- 2) Outside micrometer, range 0-1", graduation .0001" (part no. **3202-1**)
- 3) Steel rule, 6"/150mm (part no. **7110-150**)



5003-1

Part No.	List Price (\$)	Sale Price (\$)
5003-1	116.00	98.60

2-PIECE MEASURING TOOL SET

Includes:

- 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (part no. **1108-150**)
- 2) Electronic outside micrometer, range 0-1"/0-25mm, resolution .00005"/0.001mm (part no. **3109-25A**)

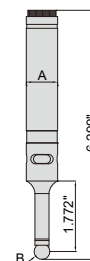


5022

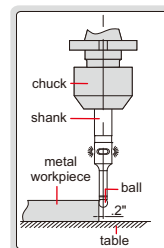
Part No.	List Price (\$)	Sale Price (\$)
5022	197.00	167.00

ELECTRONIC EDGE FINDERS

- Accuracy .0002"
- The shank is electrically conducted to the metal workpiece through the chuck and table, when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball



6566-2E



Part No.	Shank (A)	Contact ball (B)	Battery	List Price (\$)	Sale Price (\$)
6566-2E	3/4" DIA	.4" DIA	23AE, 12Vx1 pc	138.00	117.00

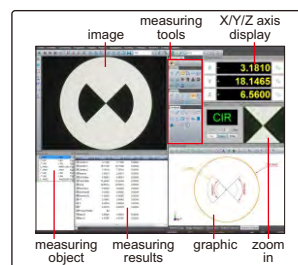
VISION MEASURING SYSTEMS

SPECIFICATION

Part No.	ISD-V150A	ISD-V250A	ISD-V300A
List Price (\$)	12900.00	13250.00	15500.00
Sale Price (\$)	10965.00	11263.00	13175.00
Measuring range (X×Y×Z)	6×4×8"	10×6×8"	12×8×8"
Stage size	13.94×8.98"	17.72×11.02"	19.69×12.99"
Glass stage size	8.27×6.30"	12.05×7.72"	13.78×9.84"
Resolution of X/Y/Z axis	.00002"		
Accuracy of X/Y axis	≤(98.4+10L)μin (L is the measuring length in inch)		
Repeatability of X/Y axis	.00008"		
Objective	0.7X~4.5X (zoom)		
Working distance	3.62"		
Magnification	33X~195X (on 19" monitor)		
Camera	1/3" color CCD, 0.3M pixel		
Illumination	surface and contour with adjustable LED		
Max. height of workpiece	6.30"		
Max. weight of workpiece	44lb		
Operation system	Windows 7/8/10		
Drive method	manual		
Power supply	110/220V, 50/60Hz		
Dimension (L×W×H)	22.05×21.26×33.46"	29.92×23.62×35.43"	29.92×23.62×35.43"
Weight	220lb	264lb	308lb



ISD-V250A



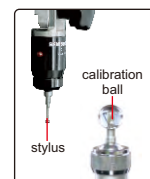
computer is included

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

0.5X auxiliary objective	Part No. ISD-V-OB05X Working distance: 6.89" Magnification: 16.5~97.5X (on 19" monitor)
2X auxiliary objective	Part No. ISD-V-OB2X Working distance: 1.42" Magnification: 66~390X (on 19" monitor)
Probe	Part No. ISD-V-PROBE includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball



probe (optional), includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball, measuring accuracy is .0004"



software CD (included)

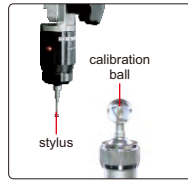


lens with coaxial light (optional, must be installed in factory)

CNC VISION MEASURING SYSTEMS



- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement



probe (optional), includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball, measuring accuracy is .0004"



lens with coaxial light (included)

programmable segmented ring light (included)



ISD-V220CNCA-U

SPECIFICATION

Part No.		ISD-V220CNCA-U**	ISD-V270CNCA-U**	ISD-V370CNCA-U**
List Price (\$)		30750.00	33250.00	40900.00
Sale Price (\$)		26138.00	28263.00	34765.00
Measuring range (X×Y×Z)		8.66×4.72×5.90"	10.63×6.69×5.90"	14.57×10.63×5.90"
Stage size		17.72×11.02"	19.69×12.99"	23.86×18.35"
Glass stage size		12.05×7.72"	13.78×9.84"	17.72×13.78"
Resolution of X/Y/Z axis		.00002"		
Accuracy of X/Y axis		≤(98.4+10L)μin (L is the measuring length in inch)		
Repeatability of X/Y axis		.00008"		
Objective		0.7X~4.5X (zoom)		
Working distance		3.62"		
Magnification		20X~128X (on 19.5" monitor)		
Camera		1/2" color CCD, 0.4M pixel		
Illumination	surface	coaxial light, programmable segmented ring light		
	contour	adjustable LED		
View field (diagonal length)		.07~.44"		
Max. height of workpiece		6.30"		
Max. weight of workpiece		66lb		
Operation system		Windows 7/8/10		
Drive method		Automatic		
Power supply		110V, 50/60Hz**		
Dimension (L×W×H)		29.92×23.62×35.43"	29.92×23.62×35.43"	38.19×26.38×37.01"
Weight		322lb	370lb	586lb

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Anti-dust cover	1 pc

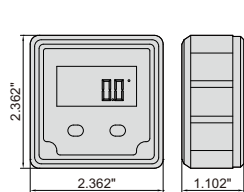


OPTIONAL ACCESSORY

0.5X auxiliary objective	Part No. ISD-V-OB05X Working distance: 6.89" Magnification: 10~64X (on 19.5" monitor)
2X auxiliary objective	Part No. ISD-V-OB2X Working distance: 1.42" Magnification: 66~390X (on 19.5" monitor)
Probe	Part No. ISD-V-PROBE includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball

ELECTRONIC LEVEL AND SLOPE METER

BACKLIGHT



2170-1

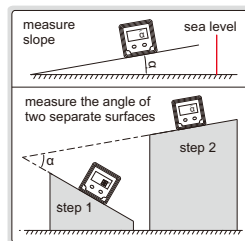
MAGNETIC BOTTOM

ABSOLUTE LEVEL

WORKING TEMPERATURE
23°F~122°F

DISPLAY FLIPS OVER WHEN
THE BOTTOM FACES UP

- Used as level and slope meter
- Aluminum frame
- Magnetic bottom
- The display flips over when the bottom faces up
- The backlight is on automatically when in use, and automatically off in 15 minutes after use
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, ZERO, absolute and incremental measurement
- One AAA battery, automatic power off in 5 minutes



Part No.	Range	Resolution	Accuracy	List Price (\$)	Sale Price (\$)
2170-1	4x90°	0.1° (=.021in/ft)	at 0° and 90°: ±0.1°; others: ±0.2°	101.00	85.90

ELECTRONIC LEVEL AND SLOPE METER

BACKLIGHT

IP54
WATERPROOF

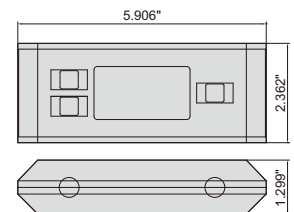
ABSOLUTE
LEVEL

WORKING TEMPERATURE
23°F~122°F

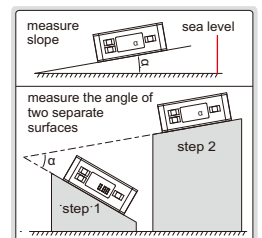
BUZZER ALARM
AT 0° AND 90°



2179-360



- IP54 dust/waterproof
- Used as level and slope meter
- Aluminum frame
- Magnetic bottom with V-groove for shafts
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm, unit (mm/m, %, in/ft), conversion, backlight
- Two AAA batteries, automatic power off



Part No.	Range	Resolution	Accuracy	List Price (\$)	Sale Price (\$)
2179-360	0~360° (90°x4)	0.05° (=.00625in/ft)	at 0° and 90°: ±0.1°; others: ±0.2°	172.00	146.00

MANUAL ROCKWELL HARDNESS TESTER PART NO. ISH-R150



SPECIFICATION

List Price (\$)	3060.00
Sale Price (\$)	2601.00
Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N/10kgf
Test force	588N/60kgf, 980N/100kgf, 1471N/150kgf
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	6.69"
Max. workpiece depth	6.50" (from the center of indenter)
Dimension	20.47×6.30×27.56"
Weight	132lb

STANDARD DELIVERY

Main unit	1 pc
2.36" DIA flat anvil	1 pc
5.91" DIA flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
1/16" DIA carbide ball indenter	1 pc
Hardness test block HRC20-30	1 pc
Hardness test block HRC60-65	1 pc
Hardness test block HRB88-95	1 pc
Anti-dust cover	1 pc



OPTIONAL ACCESSORY

Hardness test block HRC20-30	ISH-BHRC1
Hardness test block HRC60-65	ISH-BHRC3
Hardness test block HRB88-95	ISH-BHRB
Small V-type anvil	ISH-SMALL ANVIL

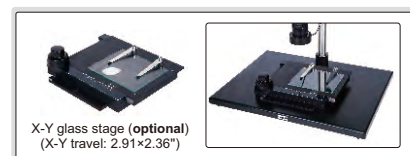
DIGITAL MEASURING MICROSCOPE (WITH DISPLAY)

TAKE
PICTURES

MEASUREMENT

BUILT-IN SOFTWARE
WITHOUT COMPUTER

ATTENTION: PLEASE MAKE CONFOCAL ADJUSTMENT AFTER
CHANGING CAMERA ADAPTERS OR AUXILIARY OBJECTIVES

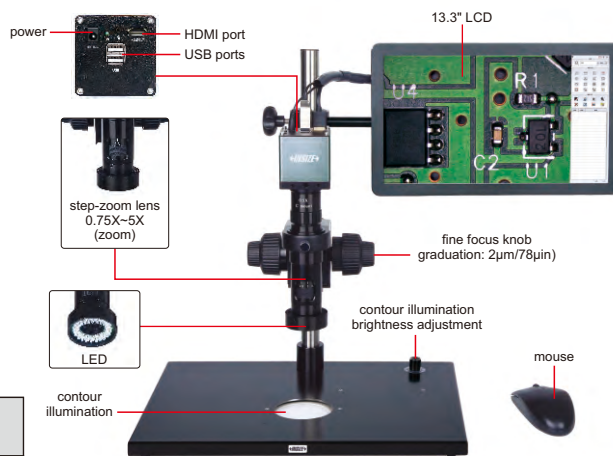


- 1080P high-definition image
- Built-in software without computer, operation by mouse
- Take pictures, saved to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable

SPECIFICATION

Part No.	ISM-DL301-U** (with contour illumination)
List Price (\$)	3467.00
Sale Price (\$)	2947.00
Magnification	15X~100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter and 110V, 50/60Hz**
Dimension (L×W×H)	22.44×11.81×16.93"
Weight	14.44lb

Part No.	List Price (\$)	Sale Price (\$)
ISM-DL-STAGE	229.00	195.00

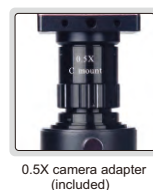
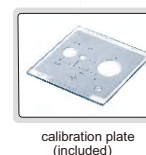


ISM-DL301-U (with contour illumination)

MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy*
0.75X	15X	±.00031"
1X	20X	±.00028"
1.5X	30X	±.00024"
2X	40X	±.00024"
2.5X	50X	±.00024"
3X	60X	±.00020"
3.5X	70X	±.00020"
4X	80X	±.00016"
4.5X	90X	±.00016"
5X	100X	±.00016"

*When measuring the contour of workpieces, please select ISM-DL301-U for high accuracy.



STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 2.91×2.36")	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED auxiliary illumination	ISM-DL-LED
Coaxial light illumination	ISM-DL-COAXIAL
Auxiliary objective	see details

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

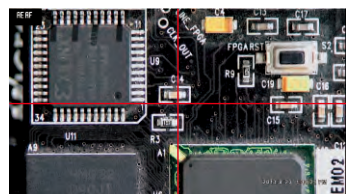
Auxiliary Objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	15~100X	30~200X
	Focus distance	2.76±.08"	2.76±.08"
	View filed	.63×.43"~.1×.06"	.31×.21"~.05×.03"
2X (optional)	Magnification	30~200X	60~400X
	Focus distance	1.14±.08"	1.14±.08"
	View filed	.31×.21"~.05×.03"	.15×.11"~.024×.016"

AUTO FOCUS DIGITAL MICROSCOPE (WITH DISPLAY) PART NO. 5303-AF103

AUTO
FOCUS

TAKE PICTURES
AND VIDEOS

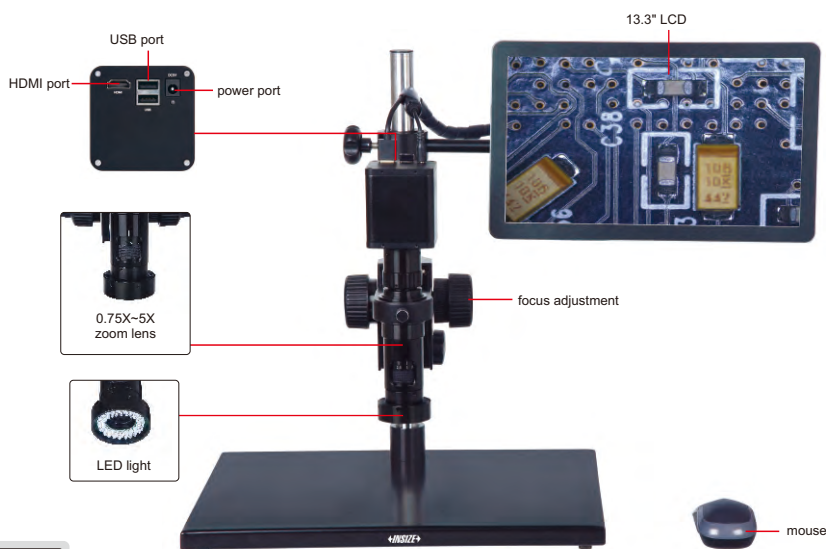
- 1080P high-definition image
- Auto focus camera
- Take pictures and videos, saved to USB flash disk
- Picture review, picture compare
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/brown colors)



display cross hair
(blue/green/red/yellow/black/brown colors)



X-Y glass stage (optional)
(X-Y travel: 2.91×2.36")



SPECIFICATION

List Price (\$)	3253.00
Sale Price (\$)	2765.00
Magnification	20X~123X
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	22.44×11.81×16.93"
Weigh	14.33lb

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary Objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	20~123X	40~246X
	Focus distance	1.89~3.31"	1.89~3.31"
	View filed	.51×.28~.09×.04"	.25×.14~.04×.02"
2X (optional)	Magnification	40~246X	80~492X
	Focus distance	.94~1.65"	.94~1.65"
	View filed	.26×.14~.04×.02"	.13×.07~.02×.01"

AUTO FOCUS DISTANCE

Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance	1.89~3.31"	1.97~3.07"	2.17~2.87"	2.44~2.80"	2.56~2.76"
Zoom objective scale	3X	3.5X	4X	4.5X	5X
Auto focus distance	2.60~2.76"	2.64~2.76"	2.68~2.76"	2.68~2.76"	2.68~2.76"

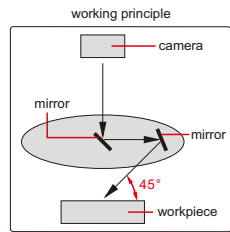
STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adpter	2 pcs

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 2.91×2.36")	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED auxiliary illumination	ISM-DL-LED
Coaxial light illumination	ISM-DL-COAXIAL
Auxiliary objective	see details

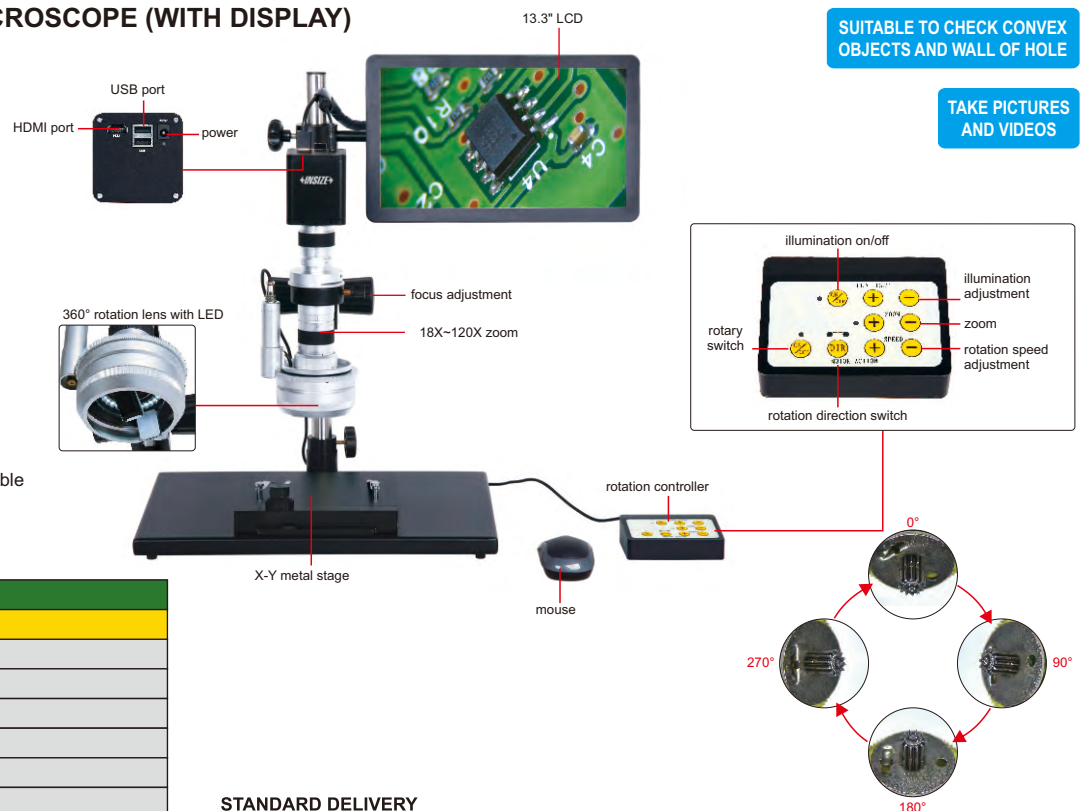
3D MOTORIZED ROTATION MICROSCOPE (WITH DISPLAY) PART NO. 5301-D400



- 1080P high-definition 3D image
- Take pictures and videos, save to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio and gain are adjustable

SPECIFICATION

List Price (\$)	8179.00
Sale Price (\$)	6952.00
Magnification	18X~120X
View field	.14×.08~.94×.57"
Focus distance	1.02"
View angle	45°
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Rotation speed	2~5RPM
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	22.44×11.81×16.93"
Weight	22.05lb

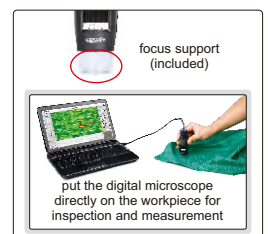
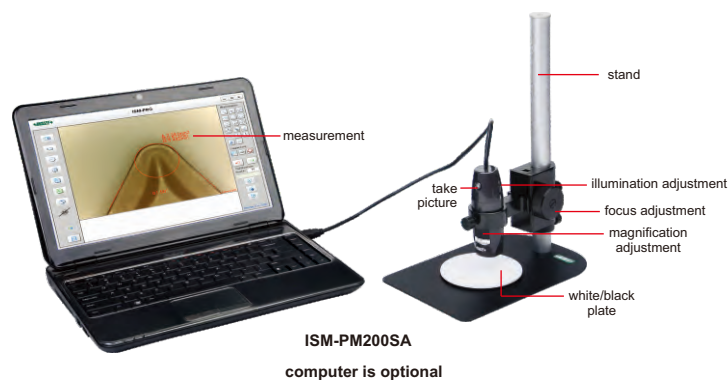


STANDARD DELIVERY

Main unit	1 pc
Rotation controller	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs

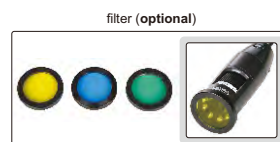
DIGITAL MEASURING MICROSCOPE PART NO. ISM-PM200SA

- Can take pictures and videos
- Supplied with software



SPECIFICATION

List Price (\$)	411.00
Sale Price (\$)	349.00
Magnification	10X~200X
Focus distance	short focus distance
Stand	standard
Focus support	included
Calibration rule	graduation 0.1mm/.004" and 1mm/.039"
Pixel	2M (resolution: 1600×1200)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)



OPTIONAL ACCESSORY

Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	.83"	.32×.25"	1.2mil
100X	.51"	.15×.12"	0.6mil
150X	.63"	.10×.08"	0.4mil
200X	.75"	.07×.06"	0.3mil

WiFi DIGITAL MEASURING MICROSCOPE PART NO. ISM-WF200



- Maximum working distance is 200" under WiFi mode
- Can be connected to multiple iPads, Android devices or computers at the same time under WiFi mode
- Take pictures and videos
- Supplied with software

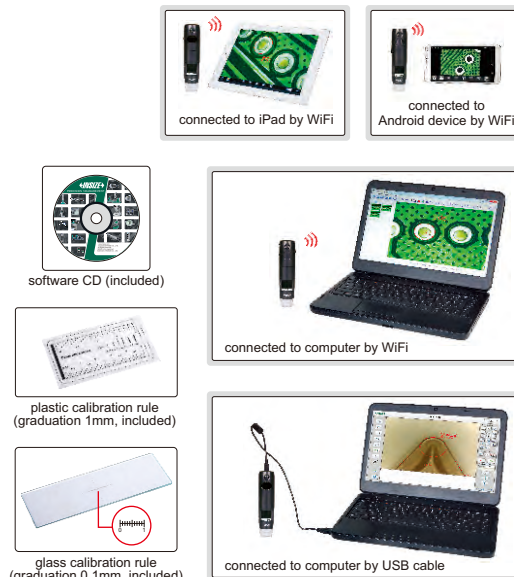
SPECIFICATION

List Price (\$)	411.00
Sale Price (\$)	349.00
Magnification	10X~200X
Pixel	1.3M (resolution: 1280x1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery

Part No.	List Price (\$)	Sale Price (\$)
ISM-WSTD	139.00	118.00

STANDARD DELIVERY

Microscope	1 pc
Base support	1 pc
Focus support ring for 80X/150X	1 pc
Focus support ring for 60X/200X	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
Plastic calibration rule (graduation 1mm)	1 pc
USB cable and software	1 pc
AC/DC adapter	1 pc



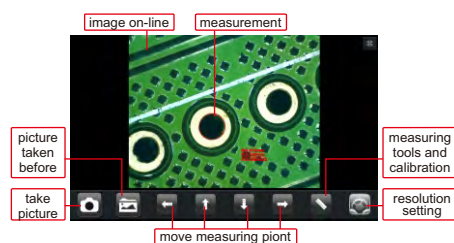
MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	.83"	.32×.25"	1.2mil
100X	.51"	.15×.12"	0.6mil
150X	.63"	.10×.08"	0.4mil
200X	.75"	.07×.06"	0.3mil

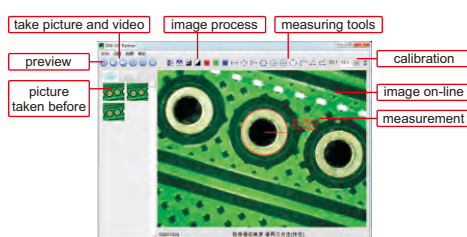
OPTIONAL ACCESSORY

Stand	ISM-WSTD
Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

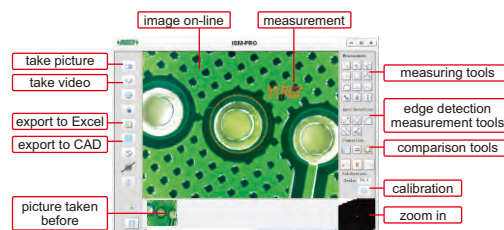
② Software ISM-APK (for Android devices by WiFi)



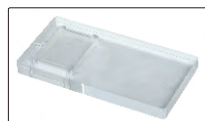
③ Software ISM-WF Partner (for computer by WiFi)



④ Software ISM-PRO (for computer by USB cable)



ROUGHNESS TESTER PART NO. ISR-C003



- Unit: μm , μin
- Automatic power off



STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
AC/DC adapter	1 pc

SPECIFICATION

List Price (\$)	1787.00
Sale Price (\$)	1519.00
Parameters	Ra, Rz, Rq, Rt
Range	Ra, Rq: 2~590 μin Rz, Rt: 4~1968 μin
Accuracy	$\pm 10\%$
Resolution (Ra)	0.01 μin
Probe	type: piezoelectric stylus radius/angle: 393 $\mu\text{in}/90^\circ$ stylus material: diamond
Measuring force	.012ozf
Measuring unit	$\mu\text{in}/\mu\text{m}$
Cut off	.01/.03/.1"
Evaluation length	.05" for cut off .01" .15" for cut off .03" .2" for cut off .1"
Traverse speed	.03"/s
Power	built-in rechargeable battery
Dimension (L×W×H)	4.17×2.75×.94"
Weight	.44lb

ROUGHNESS TESTER (SEPARABLE TYPE) PART NO. ISR-C300

- Roughness tester can be operated by mobile phones (only android system) or computers
- Data can be sent to Excel by connecting with computers via bluetooth or USB cable
- Support bluetooth printer
- 22 roughness parameters
- Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve
- Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Touch screen
- Automatic power off

CAN BE OPERATED BY
COMPUTER OR MOBILE PHONE

DATA
OUTPUT

BLUETOOTH

TOUCH
SCREEN



bluetooth printer (optional)



probe and main unit can be combined together



roughness tester screen display

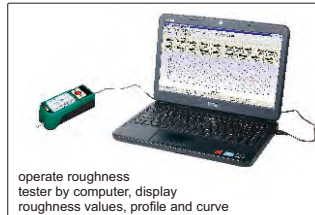


connect mobile phone via bluetooth (only android system)



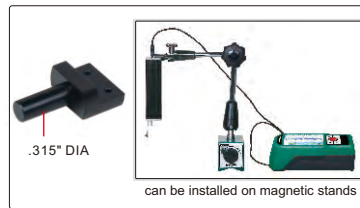
operate roughness tester by mobile phone, display roughness values, profile and curve

connect computer via USB cable (software is included)



operate roughness tester by computer, display roughness values, profile and curve

magnetic stand adapter (included)



can be installed on magnetic stands

height gage adapter (optional)



can be installed on height gages

NOTE: Please confirm whether the adapter can fit your height gages. When using INSIZE height gages, please use the dial test indicator holder of height gages

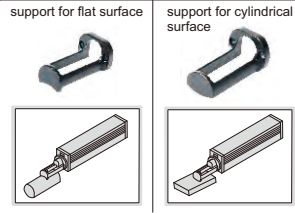
data can be output to Excel by connecting computer via bluetooth or USB cable



adjustable stand (included)

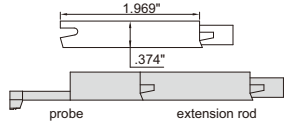


probe support (optional)

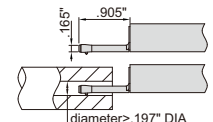


optional probes

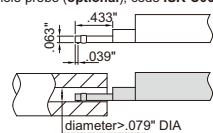
extension rod (optional), code ISR-C002-ER



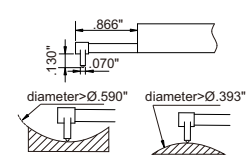
small hole probe (optional), code ISR-C002-PROBE



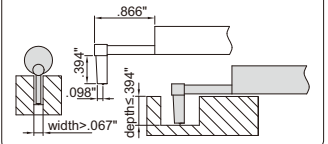
tiny hole probe (optional), code ISR-C002-SBP



curved surface probe (optional), code ISR-C002-SUR



deep groove probe (optional), code ISR-C002-DGP



SPECIFICATION

List Price (\$)		2428.00
Sale Price (\$)		2064.00
Parameters		Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax
Range	X axis	.689"
	Z axis	12598µin(-6299µin~6299µin)
Accuracy		±10%
Resolution (Ra)		0.01µin
Probe	type	inductive
	stylus radius/angle	196µin/90°
	stylus material	diamond
Measuring force		.01ozf
Measuring unit		µm/µin
Cut off		.01/.03/.1"
Number of cut-offs		1 to 5
Traverse speed		.005"/s, .02"/s, .04"/s
Memory		100 measurement results
Output		USB and bluetooth
Power		built-in rechargeable battery
Dimension (L×W×H)		6.22×2.52×2.05"
Weight		.89lb

STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Connecting cable (long and short)	1pc of each
Magnetic stand adapter	1pc
Adjustable stand	1pc
Touch pen	1pc
USB cable and software	1pc
AC/DC adapter	1pc

STANDARD DELIVERY

Extension rod	ISR-C002-ER
Small hole probe	ISR-C002-PROBE
Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Curved surface probe	ISR-C002-SUR
Bluetooth printer	ISR-C002-PRINTER
Height gage adapter	ISR-C300-LB1
Bluetooth receiver	ISR-C300-RECEIVER
Support for flat surface	ISR-C300-COVER1
Support for cylindrical surface	ISR-C300-COVER2