



PRECISION MEASUREMENT



# PROMOTION

Sep. 1st - Dec. 31st, 2017

## SAVE 15% ON ALL ITEMS

### ELECTRONIC CALIPERS (STANDARD MODEL)

- 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



1108-150

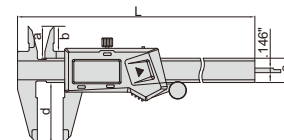
INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

DATA  
OUTPUT

INSIZE  
ISO17025 CERTIFICATE  
AVAILABLE AT  
EXTRA CHARGE

Part No.	Range	Accuracy	L	a	b	c	d	List Price (\$)	Sale Price (\$)
1108-150*	0-6"/0-150mm	±.0008"	9.291"	.827"	.630"	.630"	1.575"	54.10	46.00
1108-200*	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"	80.00	68.00
1108-300*	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.630"	2.362"	119.90	102.00

\*Supplied with manufacturer inspection certificate traceable to NIST USA



### ELECTRONIC WATERPROOF CALIPERS

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



1118-150B

ATTENTION:  
NO DATA OUTPUT

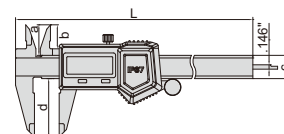
ATTENTION: IT IS NECESSARY TO  
SET ZERO AFTER POWER ON EACH TIME

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

IP67  
WATERPROOF

Part No.	Range	Accuracy	L	a	b	c	d	List Price (\$)	Sale Price (\$)
1118-150B*	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"	164.70	140.00
1118-200B*	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"	252.40	214.60
1118-300B*	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"	303.90	258.30

\*Supplied with manufacturer inspection certificate traceable to NIST USA



### DIAL CALIPERS

- Shockproof dial indicator
- Made of stainless steel



1311-6

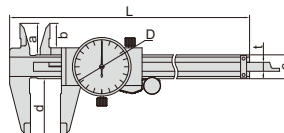
SHOCK  
PROOF

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

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"	53.50	45.50
1311-8*	0-8"	±.0020"	11.339"	.945"	.748"	.630"	1.890"	1.535" DIA	.256"	71.00	60.40
1311-12*	0-12"	±.0020"	16.142"	1.102"	.866"	.787"	2.441"	1.752" DIA	.295"	124.50	105.80

\*Supplied with manufacturer inspection certificate traceable to NIST USA

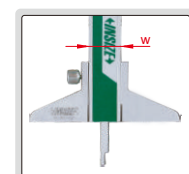
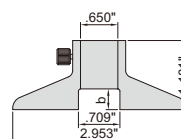


### DEPTH BASE ATTACHMENT

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



6140



Part No.	Application	b	List Price (\$)	Sale Price (\$)
6140	suitable for calipers with beam width (w) .630"	.354"	20.50	17.40

### ELECTRONIC CALIPER WITH INTERCHANGEABLE POINTS PART NO. 1526-200

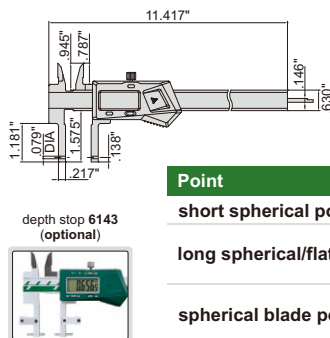
DATA  
OUTPUT



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	367.20	312.00



#### short spherical points (included)



#### long spherical/flat points (included)



#### spherical blade points (included)



#### Point sleeve (optional)



#### Multifunctional points 7392 (optional)



#### Ball points 7391 (optional)



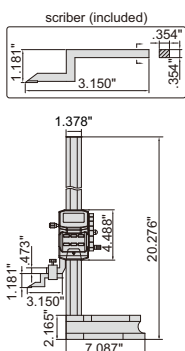
#### Screw thread points 7381, 7321 (optional)



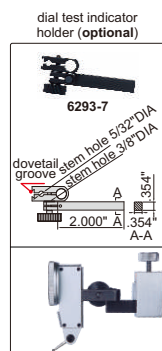
Point	Range	Accuracy	Application
short spherical points	0.5-8.5"/12-212mm (internal)	±.0012"	for grooves inside small hole
long spherical/flat points	1-8.8"/24-224mm (internal) 0-7.5"/0-187mm (external)	±.0012"	spherical points for grooves inside hole flat points for external grooves
spherical blade points	1-8.8"/24-224mm (internal) 0-7.5"/0-187mm (external)	±.0012"	for narrow grooves inside hole

### ELECTRONIC HEIGHT GAGE WITH DRIVING WHEEL

DATA  
OUTPUT



1156-300



- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, preset +, 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
- Optional accessory: data output cable, dial test indicator holder (part no. 6293-7), clamp for protractors (part no. 2372-CLAMP)

#### clamp for protractors (optional)



#### dust cover (included)



Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
1156-300	0-12"/0-300mm	±.0012"	532.00	452.00

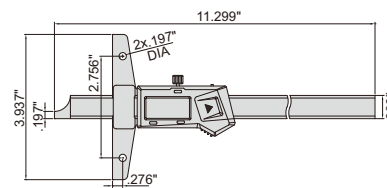
### ELECTRONIC DEPTH GAGE WITH MOUNTING HOLES FOR EXTENSION BASE

DATA  
OUTPUT

- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable, extension base



1147-200



#### extension base (optional)



Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
1147-200	0-8"/0-200mm	±.0012"	156.80	133.20

### ELECTRONIC OUTSIDE MICROMETER

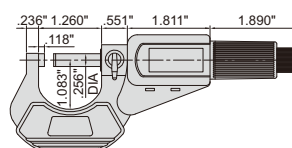
INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

ATTENTION:  
NO 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



3109-25E



#### spherical anvil is included



Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
3109-25E*	0-1"/0-25mm	±.00010"	99.90	84.90

\*Supplied with manufacturer inspection certificate traceable to NIST USA

## OUTSIDE MICROMETERS

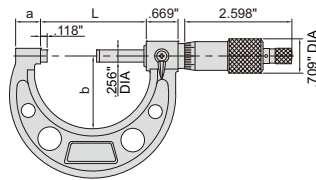
**INSIZE**  
INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

**INSIZE**  
ISO17025 CERTIFICATE  
AVAILABLE AT  
EXTRA CHARGE



3203-2A

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



### Individual

Part No.	Range	Accuracy	L	a	b	List Price (\$)	Sale Price (\$)
3203-1A*	0-1"	.00016"	1.260"	.354"	1.102"	34.70	29.50
3203-2A*	1-2"	.00016"	2.244"	.551"	1.496"	38.70	32.90
3203-3A*	2-3"	.00020"	3.228"	.591"	1.929"	43.10	36.60
3203-4A*	3-4"	.00020"	4.213"	.591"	2.362"	48.70	41.40

### Set

Part No.	Range	Micrometers included	List Price (\$)	Sale Price (\$)
3203-33A*	0-3"	3203-1A, 3203-2A, 3203-3A	101.80	86.70
3203-44A*	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4	149.50	128.00
3203-66A	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	263.70	224.00

\*Supplied with manufacturer inspection certificate traceable to NIST USA

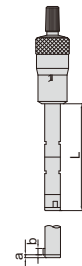
## THREE POINTS INTERNAL MICROMETERS

**INSIZE**  
INSPECTION  
CERTIFICATE

micrometer stand with clamp



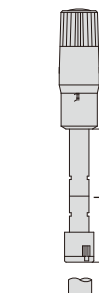
- ▶ .275-.5": graduation .0001"
- ▶ .5-4": graduation .0002"
- ▶ Ratchet stop
- ▶ Optional accessory: setting rings (part no. 6313), micrometer stand and clamp (part no. 6301 and 6301-2)



Type A  
.275-.5", steel points



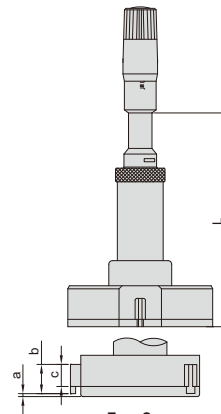
3227-E035



Type B  
.5-2", carbide points



3227-E065



Type C  
2-4", carbide points



3227-E4

### 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	.00016"	.275" DIA	4"	2.146"	.059"	.098"	—	431.10	366.00
3227-E0425*	.35-.425"	A	.00016"	.35" DIA	4"	2.146"	.059"	.098"	—	431.10	366.00
3227-E05*	.425-.5"	A	.00016"	.5" DIA	4"	2.146"	.059"	.098"	—	431.10	366.00
3227-E065*	.5-.65"	B	.00016"	.65" DIA	6"	3.150"	.020"	.236"	.177"	325.80	277.00
3227-E08*	.65-.8"	B	.00016"	.65" DIA	6"	3.150"	.020"	.236"	.177"	325.80	277.00
3227-E1*	.8-1"	B	.00016"	1" DIA	6"	3.543"	.020"	.315"	.236"	457.70	389.00
3227-E112*	1-1.2"	B	.00016"	1" DIA	6"	3.543"	.020"	.315"	.236"	457.70	389.00
3227-E16*	1.2-1.6"	B	.00016"	1.6" DIA	6"	3.819"	.020"	.551"	.472"	492.50	419.00
3227-E2*	1.6-2"	B	.00020"	1.6" DIA	6"	3.819"	.020"	.551"	.472"	571.90	486.00
3227-E25*	2-2.5"	C	.00020"	2.5" DIA	6"	4.488"	.020"	.689"	.571"	619.90	527.00
3227-E3*	2.5-3"	C	.00020"	2.5" DIA	6"	4.488"	.020"	.689"	.571"	664.80	565.00
3227-E35*	3-3.5"	C	.00020"	3.5" DIA	6"	4.488"	.020"	.689"	.571"	694.80	591.00
3227-E4*	3.5-4"	C	.00020"	3.5" DIA	6"	4.488"	.020"	.689"	.571"	722.50	615.00

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"	1205.00	1025.00
3227-E082*	.5-.8"	.5-.65", .65-.8"	.65" DIA	6"	606.10	515.00
3227-E24*	.8-2"	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"	1730.00	1471.00
3227-E44*	2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"	2307.00	1961.00

\*Supplied with manufacturer inspection certificate



3227-E24

### ELECTRONIC THREE POINTS INTERNAL MICROMETERS



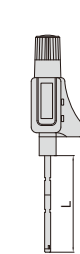
**IP54**  
WATERPROOF

**DATA**  
OUTPUT

micrometer stand with clamp

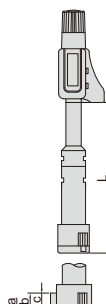


- ▶ Resolution .00005"/0.001mm
- ▶ IP54 dust/waterproof
- ▶ Buttons: on/off, set, inch/mm, ABS/INC
- ▶ Data output
- ▶ LR44 battery, automatic power off
- ▶ Ratchet stop
- ▶ Optional accessory: data output cable, setting ring (part no. **6313**), micrometer stand and clamp (part no. **6301** and **6301-2**)



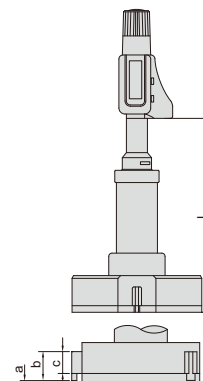
**Type A**  
.275-.5",  
steel points

**3127-E05**



**Type B**  
.5-2", carbide points

**3127-E16**



**Type C**  
2-4", carbide points



**3127-E4**

#### Individual

Part No.	Range	Type	Accuracy	Setting ring (included)	Extension rod (included)	L	a	b	c	List Price (\$)	Sale Price (\$)
<b>3127-E035 *</b>	.275-.35"/7-9mm	A	.00016"	.275" DIA	4"	2.18"	.059"	.098"	—	676.00	575.00
<b>3127-E0425 *</b>	.35-.425"/9-11mm	A	.00016"	.35" DIA	4"	2.18"	.059"	.098"	—	676.00	575.00
<b>3127-E05 *</b>	.425-.5"/11-13mm	A	.00016"	.5" DIA	4"	2.18"	.059"	.098"	—	676.00	575.00
<b>3127-E065 *</b>	.5-.65"/13-17mm	B	.00016"	.65" DIA	6"	3.2"	.020"	.236"	.177"	729.00	619.00
<b>3127-E08 *</b>	.65-.8"/17-20mm	B	.00016"	.65" DIA	6"	3.2"	.020"	.236"	.177"	729.00	619.00
<b>3127-E1 *</b>	.8-1"/20-25mm	B	.00016"	1" DIA	6"	3.6"	.020"	.315"	.236"	759.00	645.00
<b>3127-E112 *</b>	1-1.2"/25-30mm	B	.00016"	1" DIA	6"	3.6"	.020"	.315"	.236"	759.00	645.00
<b>3127-E16 *</b>	1.2-1.6"/30-40mm	B	.00016"	1.6" DIA	6"	3.88"	.020"	.551"	.472"	838.00	712.00
<b>3127-E2 *</b>	1.6-2"/40-51mm	B	.00020"	1.6" DIA	6"	3.88"	.020"	.551"	.472"	838.00	712.00
<b>3127-E25 *</b>	2-2.5"/51-63mm	C	.00020"	2.5" DIA	6"	4.56"	.020"	.689"	.571"	906.00	770.00
<b>3127-E3 *</b>	2.5-3"/63-76mm	C	.00020"	2.5" DIA	6"	4.56"	.020"	.689"	.571"	958.00	814.00
<b>3127-E35 *</b>	3-3.5"/76-89mm	C	.00020"	3.5" DIA	6"	4.56"	.020"	.689"	.571"	996.00	846.00
<b>3127-E4 *</b>	3.5-4"/89-101mm	C	.00020"	3.5" DIA	6"	4.56"	.020"	.689"	.571"	1035.00	880.00

setting rings are included



extension rods are included



#### Set

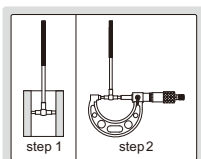
Part No.	Range	Micrometers included	Setting ring (included)	Extension rod (included)	List Price (\$)	Sale Price (\$)
<b>3127-E053 *</b>	.275-.5"/7-13mm	.275-.35"/7-9mm, .35-.425"/9-11mm, .425-.5"/11-13mm	.275" DIA, .35" DIA, .5" DIA	4"	1880.00	1598.00
<b>3127-E082 *</b>	.5-.8"/13-20mm	.5-.65"/13-17mm, .65-.8"/17-20mm	.65" DIA	6"	1336.00	1136.00
<b>3127-E24 *</b>	.8-2"/20-51mm	.8-1"/20-25mm, 1-1.2"/25-30mm, 1.2-1.6"/30-40mm, 1.6-2"/40-51mm	1" DIA, 1.6" DIA	6"	2801.00	2381.00
<b>3127-E44 *</b>	2-4"/51-101mm	2-2.5"/51-63mm, 2.5-3"/63-76mm, 3-3.5"/76-89mm, 3.5-4"/89-101mm	2.5" DIA, 3.5" DIA	6"	3300.00	2805.00

\*Supplied with manufacturer inspection certificate



**3127-E24**

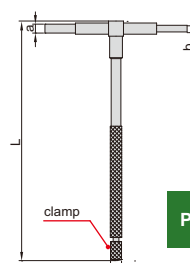
### TELESCOPING GAGE SET



- ▶ 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 (\$)
<b>4206-1</b>	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"	40.60	34.50

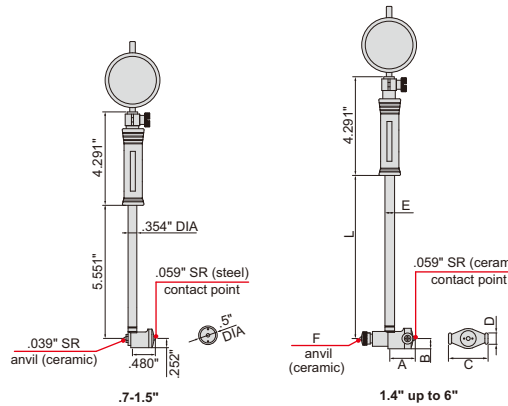


## BORE GAGES

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



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



2323-6

Part No.	Range	Indicator	Accuracy	Repeatability	List Price (\$)	Sale Price (\$)
2323-15	.7-1.5"	dial indicator,	±.00075"	.00015"	183.30	156.00
2323-24	1.4-2.4"	range .25",	±.0009"	.00015"	165.80	141.00
2323-6	2-6"	graduation .0005"	±.0009"	.00015"	174.70	149.00

Range	A	B	C	D	E	F	L
1.4-2.4"	.866"	.354"	1.063"	.512" DIA	.504" DIA	.079" R	5.551"
2-6"	1.024"	.354"	1.378"	.512" DIA	.504" DIA	.079" R	5.551"

## 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)

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"	198.00	168.00
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"	457.00	388.00



2824-S2E

2824-S3E

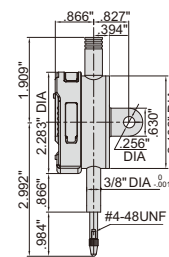
## ELECTRONIC INDICATOR (STANDARD MODEL)

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

- 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



2112-10E



DATA  
OUTPUT

spindle lift knob is included

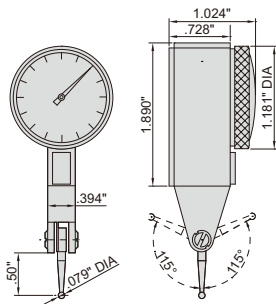


Part No.	Range	Resolution	Accuracy	Hysteresis	List Price (\$)	Sale Price (\$)
2112-10E *	.5"/12.7mm	.0005"/0.01mm	±.0015"	.0005"	122.20	104.00

\* Supplied with manufacturer inspection certificate traceable to NIST USA

### DIAL TEST INDICATORS

- ▶ Jeweled bearing
- ▶ Carbide contact point
- ▶ Two measuring directions
- ▶ Anti magnetic body
- ▶ Supplied with two clamps: 5/32" DIA and 3/8" DIA
- ▶ Optional accessory: styli

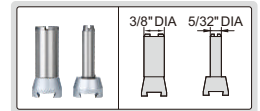


2380-31

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

JEWELLED  
BEARING

clamps are included



Part No.	Range	Graduation	Accuracy	Dial reading	List Price (\$)	Sale Price (\$)
2380-31 *	.03"	.001"	±.001"	0-15-0	68.60	58.30
2380-35 *	.03"	.0005"	±.0005"	0-15-0	86.20	73.30

\* Supplied with manufacturer inspection certificate traceable to NIST USA

### DIAL INDICATOR

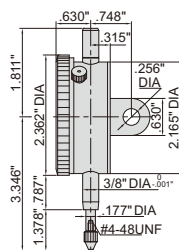
INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST



2307-1

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

INSIZE  
ISO17025 CERTIFICATE  
AVAILABLE AT  
EXTRA CHARGE



Part No.	Range	Accuracy		Range /rev	Dial reading	List Price (\$)	Sale Price (\$)
		First 2.5 rev	Overall				
2307-1 *	1"	±.001"	±.002"	.1"	0-100	32.10	27.30

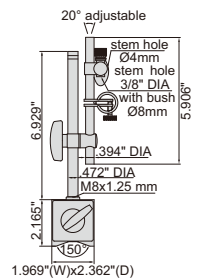
\* Supplied with manufacturer inspection certificate traceable to NIST USA

### MAGNETIC STAND



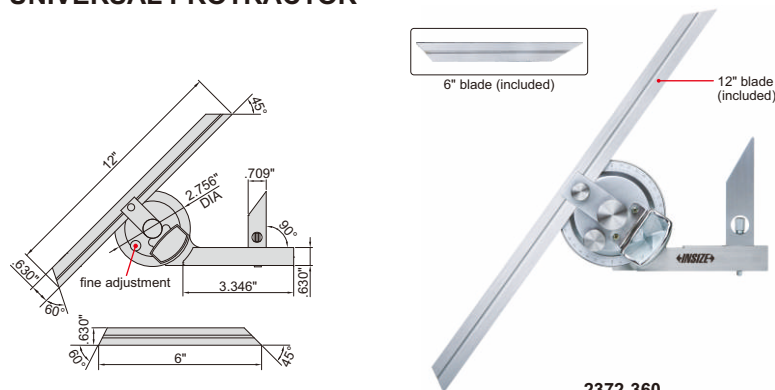
6201-60

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



Part No.	Magnetic force	Remark	List Price (\$)	Sale Price (\$)
6201-60	132lbf	with fine adjustment	26.20	22.30

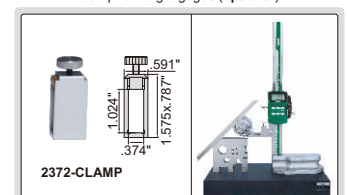
### UNIVERSAL PROTRACTOR



2372-360

- ▶ Parallax-free reading
- ▶ Made of stainless steel
- ▶ Optional accessory: clamp (part no. 2372-CLAMP), suitable for height gages 1156, 1151, 1351 and 1250

clamp for height gages (optional)

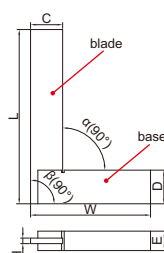


Part No.	Range	Graduation	Accuracy	List Price (\$)	Sale Price (\$)
2372-360	0-360°	5'	±5'	97.30	82.70

### MACHINIST SQUARES WITH WIDE BASE



4707-100



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

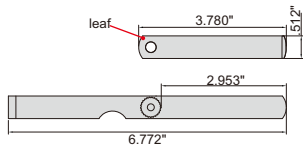
ATTENTION:  
LOW ACCURACY

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"	19.20	16.30
4707-150	6x4"	1.30mil	1.38mil	.984"	.984"	.118"	.630"	27.20	23.10
4707-200	8x5"	1.46mil	1.58mil	1.181"	1.260"	.157"	.630"	49.60	42.20
4707-300	12x8"	1.85mil	1.97mil	1.260"	1.260"	.157"	.748"	72.00	61.20

## FEELER GAGE



4608-31



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

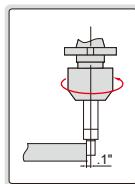
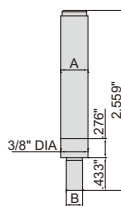
Thickness of leaves included	Accuracy
.010" (brass)	±.00039"
.0015", .002"	±.0002"
.0025", .003", .004", .005", .006", .007"	±.00028"
.008", .009"	±.00035"
.010", .011"	±.00039"
.012", .013"	±.00047"
.014", .015"	±.00051"
.016", .017"	±.00055"
.018", .019"	±.00059"
.020", .021"	±.00067"
.022", .023"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

Part No.	Range	Quantity of Leaves	List Price (\$)	Sale Price (\$)
4608-31	.0015"~.035"	32	9.40	8.00

## EDGE FINDER



6567-1E



- Hardened shank and contact point

Part No.	Shank (A)	Contact point (B)	Accuracy	List Price (\$)	Sale Price (\$)
6567-1E	3/8" DIA	.2" DIA	.0003"	34.70	29.50

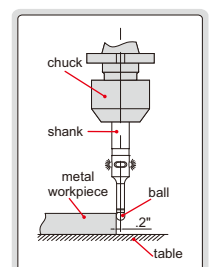
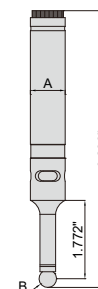
## ELECTRONIC EDGE FINDER

- Battery: 23AE, 12Vx1pc
- The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball

Part No.	Shank (A)	Contact ball (B)	Accuracy	List Price (\$)	Sale Price (\$)
6566-2E	3/4" DIA	.4" DIA	.0002"	118.00	100.00



6566-2E



## 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. 3109-25B)



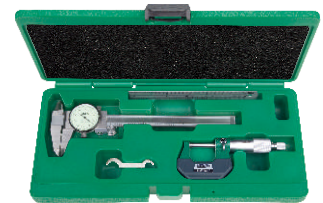
5022

Part No.	List Price (\$)	Sale Price (\$)
5022	169.00	144.00

## 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)



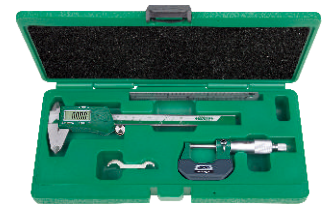
5003-1

Part No.	List Price (\$)	Sale Price (\$)
5003-1	99.90	84.90

## 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)



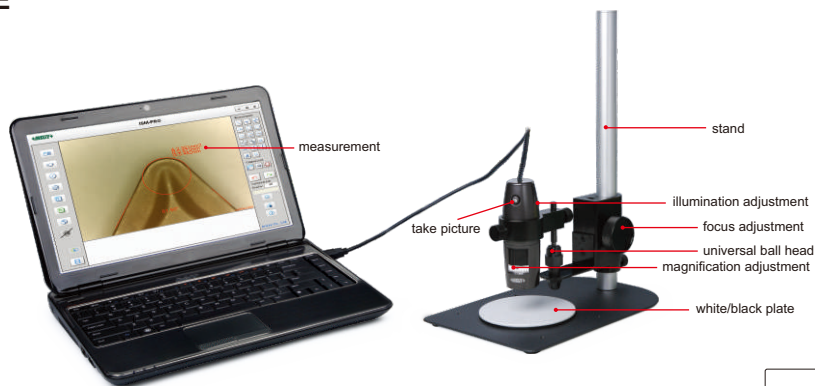
5003-1E

Part No.	List Price (\$)	Sale Price (\$)
5003-1E	93.80	79.70

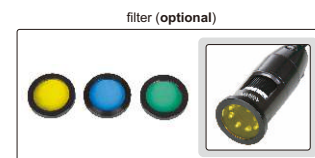
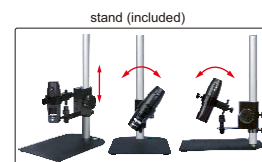
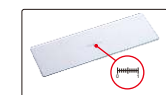
### DIGITAL MEASURING MICROSCOPE



- Can take pictures and videos
- Supplied with software



computer is not included



#### SPECIFICATION

Part No.	ISM-PM200SB
List Price (\$)	401.70
Sale Price (\$)	342.00
Magnification	10X~200X
Type	short focus distance
Focus support	included
Calibration rule	graduation 0.1 and 1mm
Pixel	2M (resolution: 1600x1200)
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

#### SOFTWARE

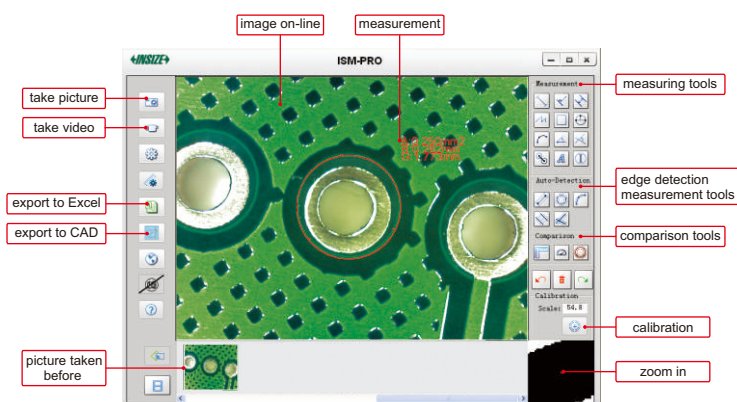
- **Language:** English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- **Operation system:** Windows XP/7/8/10/Vista

#### ► Measuring tools:

- measure length of line or distance between two points
- measure distance between point and line
- measure distance between two parallel lines
- measure length of continuous line
- measure area of rectangle
- measure radius, girth and area of circle
- measure radius, length and angle of arc
- measure distance between two circles
- measure angle with three points
- measure angle with two lines
- add text
- add number with circle

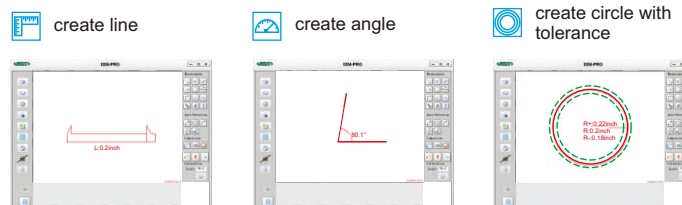
#### ► Edge detection measurement tools:

- detect line automatically, and calculate length
- detect arc automatically, and calculate radius, angle and arc length
- detect two lines automatically, and calculate angle
- detect circle automatically, and calculate radius, girth and area
- detect two parallel lines automatically, and calculate distance

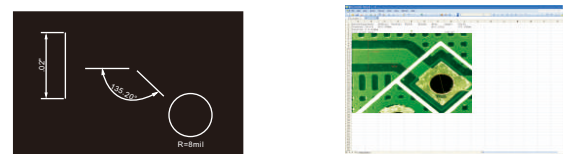


#### ► Comparison tools:

Create line, angle or circle with desired size, to compare with workpieces.

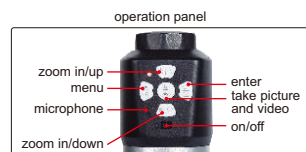


#### ► Data export to CAD or Excel:





## DIGITAL MEASURING MICROSCOPE PART NO. ISM-DM40



- ▶ Connected to TV and computer
- ▶ Take pictures and videos, saved to memory card
- ▶ Measurement on computer with accuracy  $\pm 0.0004''$
- ▶ Large working distance because focus distance of camera is adjustable
- ▶ Automatic white balance and exposure, white-black display mode
- ▶ Automatic power off

### SPECIFICATION

List Price (\$)		1188.00
Sale Price (\$)		1010.00
Magnification		15X~205X (on 19" monitor)
Pixel		3.5M
Sensor		1/3" CMOS
Resolution	HDMI output	1920×1080, 1280×720, 640×480
	picture	2304×1536, 2304×1296, 1920×1080, 1280×720, 800×480
	video	1920×1080, 1280×720, 800×480
Output		USB/HDMI
Power supply		5V (>500mA)
Dimension (L×W×H)		10.75×8.07×12.2"
Weight		7.78lb

### LENS SCALE, MAGNIFICATION AND FOCUS DISTANCE

Lens scale	Magnification (on 19" monitor)	Focus distance
0.7X	15~40X	.94~9.92"
1X	30~50X	1.06~6.1"
2X	70~80X	3.19~4.61"
3X	110~120X	3.7~4.37"
4X	140~160X	3.97~4.33"
5X	180~205X	4.05~4.29"

### MAGNIFICATION, VIEW FIELD AND FOCUS DISTANCE

Magnification (on 19" monitor)	View filed	Focus distance
15X	1.1×.63"	9.92"
30X	.53×.32"	6.1"
50X	.31×.19"	4.88"
100X	.16×.09"	4.33"
150X	.11×.06"	4.25"
200X	.08×.05"	4.13"

### SOFTWARE FOR COMPUTER

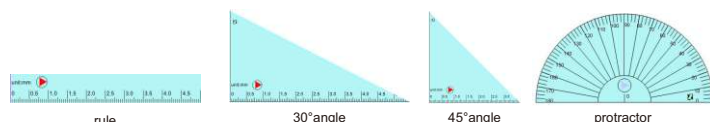
- ▶ **Language:** Chinese, English, Japanese, German, French
- ▶ **Operation system:** Windows XP/7/8/10

#### Measurement tools:

- ☐ measure radius, length and angle of arc
- ☐ measure distance between two parallel lines
- ☐ measure length, width, girth and area of rectangle
- ☐ measure axis lengths, girth and area of ellipse
- ☐ measure center distance between parallel lines
- ☐ measure circumference and area of polygon
- ☒ measure length of line or distance between two points
- ☐ measure length of continuous line
- ☐ measure angle with three points
- ☐ measure angle with two lines
- ☐ measure distance between two circles
- ☐ measure radius, girth and area of circle
- ☐ measure distance between point and line

#### Comparison tools:

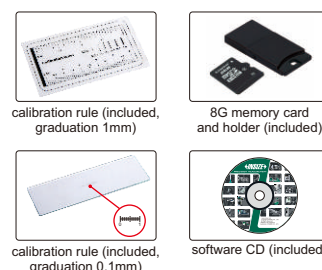
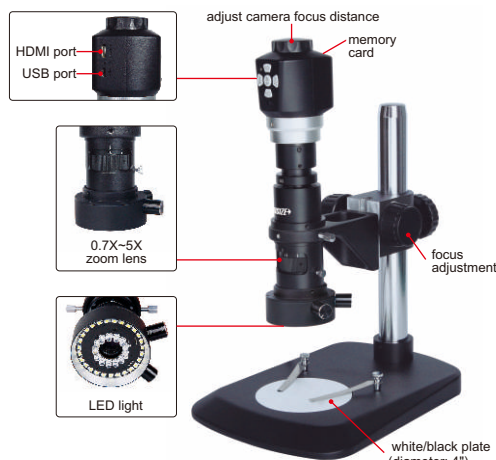
Create rule, angle or protractor, to compare with workpieces.



TAKE PICTURES  
AND VIDEOS

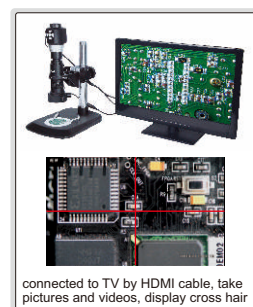
MEASUREMENT  
(ON COMPUTER)

FOCUS DISTANCE OF  
CAMERA IS ADJUSTABLE



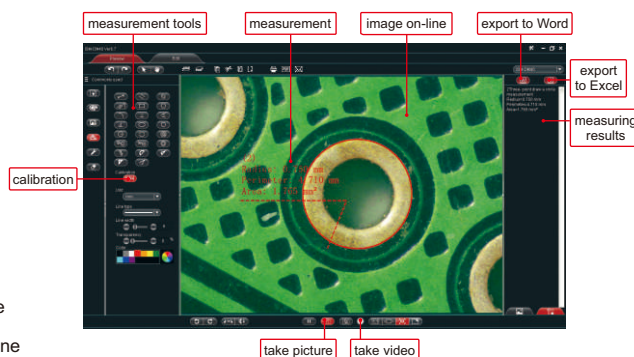
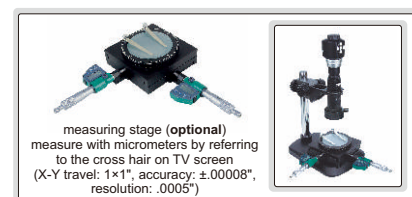
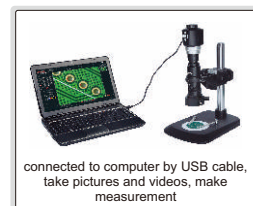
### STANDARD DELIVERY

Main unit	1pc
8G memory card and holder	1pc
HDMI cable (for TV)	1pc
USB cable and software (for computer)	1pc
Calibration rule (graduation 0.1mm)	1pc
Calibration rule (graduation 1mm)	1pc

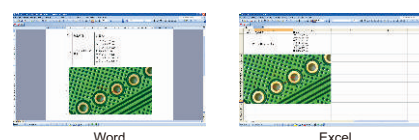


### OPTIONAL ACCESSORY

Measuring stage	ISM-DM40-STAGE
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### Data export to Word or Excel:

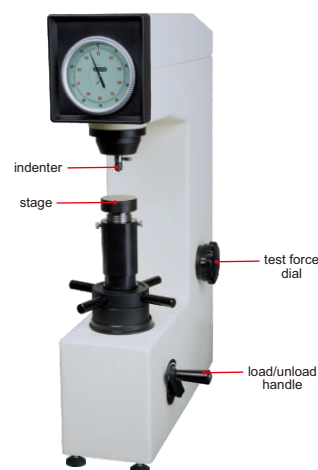


## MANUAL ROCKWELL HARDNESS TESTER PART NO. ISH-R150



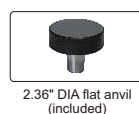
### SPECIFICATION

List Price (\$)	2605.00
Sale Price (\$)	2215.00
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

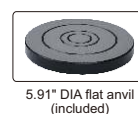


### STANDARD DELIVERY

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



2.36" DIA flat anvil (included)



5.91" DIA flat anvil (included)



V-type anvil (included) for cylinders with diameter .16~2.36 DIA



small V-type anvil (optional) for cylinders with diameter .08~.16 DIA

### OPTIONAL ACCESSORY

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

## PORTABLE LEEB HARDNESS TESTER PART NO. ISH-PHB



- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Memory of 99 measurement values for browsing
- Set measurement times (1~9) to have average value
- Connected with printer via bluetooth
- Automatic power off
- According to ASTM A 956

### SPECIFICATION

List Price (\$)	1278.00	
Sale Price (\$)	1086.00	
Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HLD (when HLD=800)	
Display	Leeb (HLD), converted hardness, material, impact direction, test times, average value, date	
Output	bluetooth	
Applicable workpiece	minimum weight	11.02lb
		4.41lb (on solid support)
		0.22lb (coupled on plate)
	minimum thickness: .20"	
	minimum radius of curved surface: 1.18"	
maximum roughness (Ra): 63µin		
Power supply	3×AAA batteries	
Dimension	5.91×3.31×1.10"	
Weight	0.44lb	



### STANDARD DELIVERY

Main unit	1pc
Impact device D	1pc
Hardness test block D	1pc
Small support ring	1pc
Cleaning brush	1pc



hardness test block D (included)



small support ring (included)

### OPTIONAL ACCESSORY

Wireless printer	ISH-DS-PRINTER
Couplant	ISH-COUPPLANT
Support rings	see details
Hardness test block D	ISH-BHLD



wireless printer (optional)

## ROUGHNESS TESTER PART NO. ISR-C002

CAN BE CONTROLLED  
BY COMPUTER

DATA  
OUTPUT



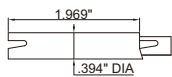
software CD  
(included)

adjustable stand (included)



- ▶ 21 roughness parameters
- ▶ Connected with printer via bluetooth
- ▶ Display roughness values, profile and curve
- ▶ Memory of maximum 100 results
- ▶ Automatic power off

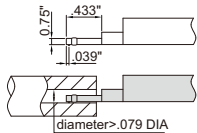
extension rod (optional),  
part no. **ISR-C002-ER**



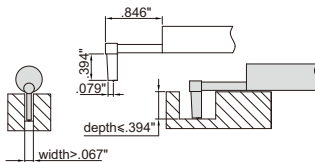
transverse rod (optional),  
part no. **ISR-C002-TR**



small hole probe (optional),  
part no. **ISR-C002-SBP**



deep groove probe (optional),  
part no. **ISR-C002-DGP**



light duty test stand (optional)



the maximum workpiece height is 8.66"

heavy duty test stand (optional)



the maximum workpiece height is 12.20"

wireless printer (optional)

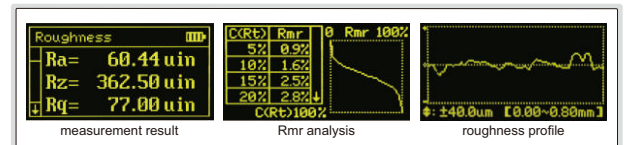


probe cover (included)

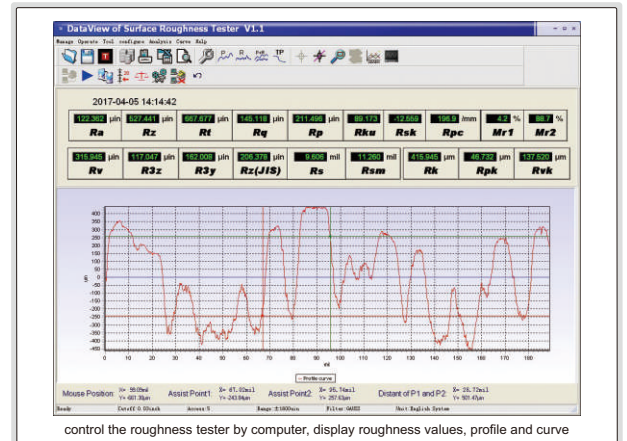


put the small workpieces directly  
under the probe for measurement

screen display



measuring software for PC (included)



## SPECIFICATION

List Price (\$)		2090.00
Sale Price (\$)		1777.00
Parameters	Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax	
Range	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	.02"/s, .04"/s	
Memory	100 measurement results	
Output	USB and bluetooth	
Power	built-in rechargeable battery	
Dimension (L×W×H)	5.55×2.16×1.57"	
Weight	.89lb	

## STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Adjustable stand	1pc
Probe cover	1pc
USB cable and software for PC	1pc
AC/DC adapter	1pc

## OPTIONAL ACCESSORY

Extension rod	ISR-C002-ER
Transverse rod	ISR-C002-TR
Deep groove probe	ISR-C002-DGP
Small hole probe	ISR-C002-SBP
Light duty test stand	ISR-C002-STAND1
Heavy duty test stand	ISR-C002-STAND
Wireless printer	ISR-C002-PRINTER

### ROUGHNESS TESTER PART NO. ISR-C003



calibration block and support (included)



- ▶ Unit:  $\mu\text{m}$ ,  $\mu\text{in}$
- ▶ Automatic power off

#### STANDARD DELIVERY

Main unit	1pc
Calibration block and support	1pc of each
AC/DC adapter	1pc

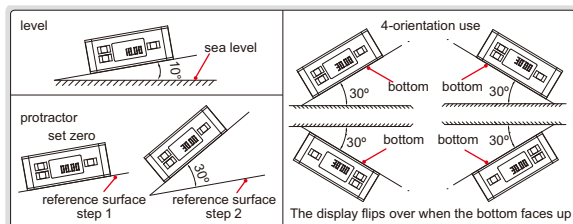
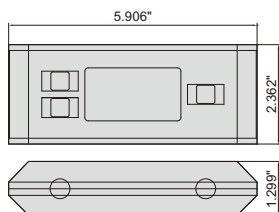
#### SPECIFICATION

List Price (\$)	1575.00
Sale Price (\$)	1339.00
Parameters	Ra, Rz, Rq, Rt
Range	Ra, Rq: 2~590 $\mu\text{in}$ Rz, Rt: 4~1968 $\mu\text{in}$
Accuracy	$\pm 10\%$
Resolution (Ra)	0.01 $\mu\text{in}$
Probe	type: piezoelectric stylus radius/angle: 393 $\mu\text{in}/90^\circ$ stylus material: diamond
Measuring force	.012ozf
Measuring unit	$\mu\text{m}/\mu\text{in}$
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

### ELECTRONIC LEVEL AND PROTRACTOR



2179-360



**IP54  
WATERPROOF**

**ABSOLUTE  
LEVEL**

**BACKLIGHT**

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

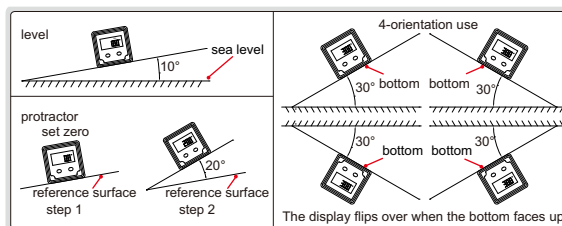
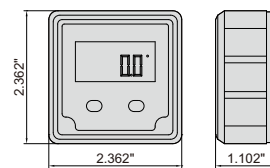
**BUZZER ALARM  
AT 0° AND 90°**

Part No.	Range	Resolution	Accuracy	List Price (\$)	Sale Price (\$)
2179-360	0-360° (90°x4)	0.05°/ .125in/ft	0° and 90°: $\pm 0.1^\circ$ ; others: $\pm 0.2^\circ$	147.30	125.00

### ELECTRONIC LEVEL AND PROTRACTOR



2170-1



**MAGNETIC  
BOTTOM**

**ABSOLUTE  
LEVEL**

**BACKLIGHT**

- ▶ 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

**DISPLAY FLIPS OVER WHEN  
THE BOTTOM FACES UP**

Part No.	Range	Resolution	Accuracy	List Price (\$)	Sale Price (\$)
2170-1	4x90°	0.1° (=.021in/ft)	0° and 90°: $\pm 0.1^\circ$ ; others: $\pm 0.2^\circ$	89.50	76.10

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