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Digital Levels And Slope Meters
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Frame Levels
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Block Levels
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Levels
Page 503-506



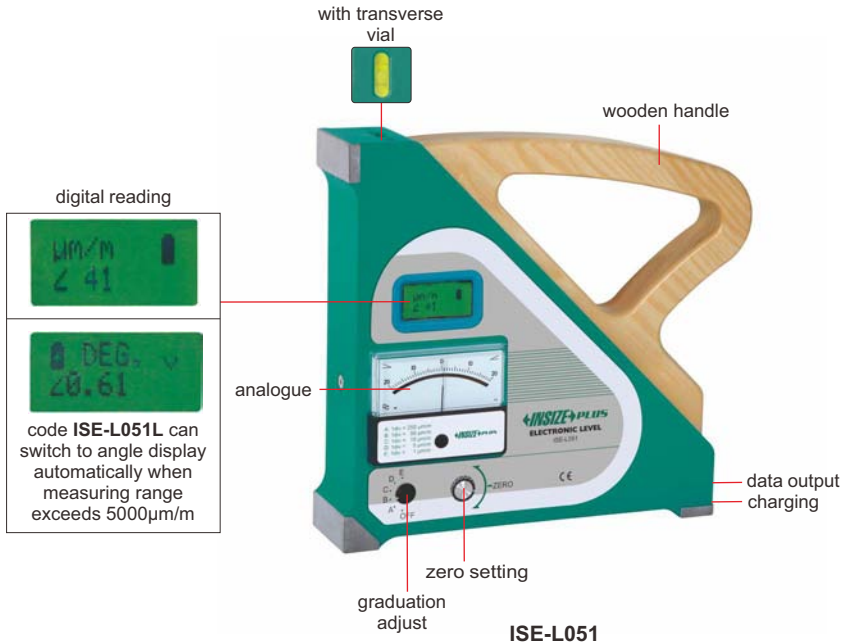
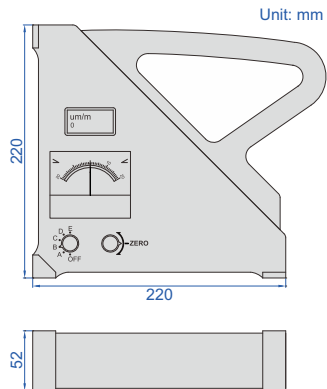
Cross-Line Laser Levels
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Self-Leveling Rotary Lasers
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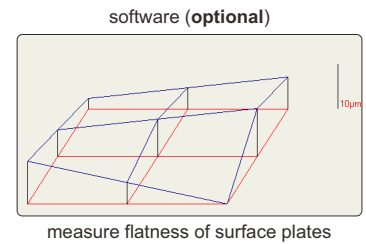
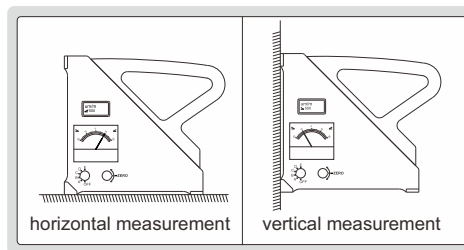
ELECTRONIC LEVELS

INSIZE PLUS
MADE IN EUROPE



code **ISE-L051L** can switch to angle display automatically when measuring range exceeds 5000µm/m

- Shockproof
- Analogue and digital reading modes



SPECIFICATION

Code	ISE-L051			ISE-L051L	
Analogue graduation (adjustable)	250µm/m (=0.014°)	50µm/m (=10")	10µm/m (=2")	5µm/m (=1")	1µm/m (=0.2")
Analogue range	±5000µm/m	±1000µm/m	±200µm/m	±100µm/m	±20µm/m
Digital reading resolution	horizontal: 1µm/m (=0.2")			horizontal: 1µm/m (=0.2"), angle: 0.01°	
Digital reading range	horizontal: 5000µm/m			horizontal: 5000µm/m, angle: 0.3~85°	
Accuracy	horizontal: ±1%			horizontal: ±1%, angle: ±0.7%	
Zero setting range	±1500µm/m				
Response time	<3s				
Data output	RS232				
Power supply	rechargeable Li-ion battery, provides power for 10h continuous working				
Dimension	220×220×52mm				
Weight	4.4kg				

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

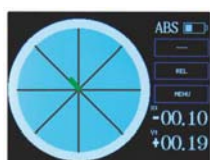
Software and data output cable	ISE-L050-SOFTWARE
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DATA
OUTPUT

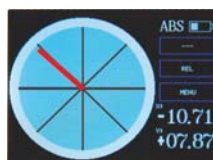
DIGITAL LEVEL CODE ISE-2DT



- Color LCD, touch panel
- X-Y axis measurement
- Set the tolerance and the display is shown in different colors

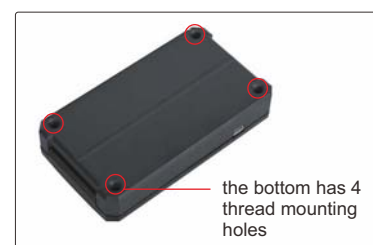
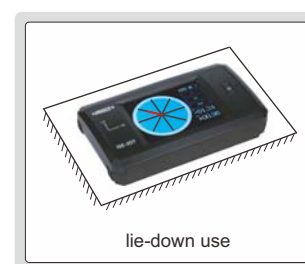


within the tolerance (green)



out of the tolerance (red)

- To show the incline with line or bubble



SPECIFICATION

Measuring range	±30°
Resolution	0.1°, 0.01°, 0.1mm/m
Accuracy	±0.03° (range 0~3°) ±0.05° (range >3°)
Power supply	rechargeable battery
Dimension	115×66×25mm
Weight	224g

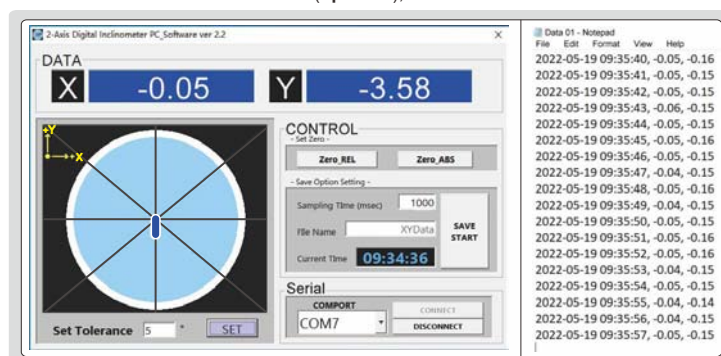
STANDARD DELIVERY

Main unit	1 pc
USB cable	1 pc

OPTIONAL ACCESSORY

Software	ISE-2DT-SOFTWARE
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PC software (optional), send data to txt



DUAL AXIS DIGITAL LEVEL AND GYRO ANGLE METER



DATA
OUTPUT

DISPLAY FLIPS OVER WHEN
THE BOTTOM FACES UP

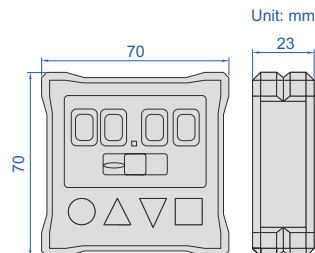
AUDIBLE ALARM
WHEN OUT OF LIMIT

BACKLIGHT

ATTENTION: HARD
PLASTIC CASE



2199-1



dual axis mode



bubble

single axis mode



bubble

M4 threaded holes
on the back for fixing



horizontal use



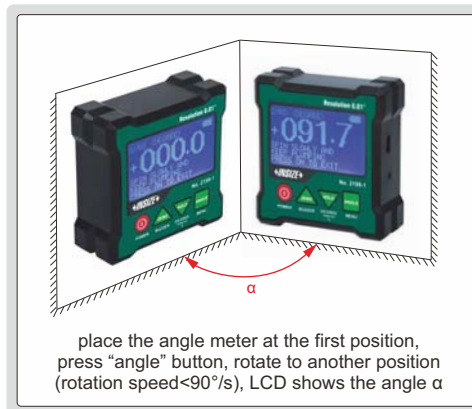
vertical use



lie-down use

- Single axis/double axis level and slope meter, gyro technique can measure the angle between two planes in any direction
- Hard plastic case, with V-shaped grooves, four magnetic sides
- Display flips over when the bottom faces up
- Audible alarm when out of limit
- Buttons: POWER, ZERO, HOLD, display unit ($^{\circ}$, mm/m, %), MENU
- Rechargeable Li-ion battery 3.7V, operation time is 40 hours
- Automatic power off in 30 minutes
- Data output
- Optional accessory: wired data transmission (code **2199-A01**), bluetooth (code **2199-A02**), transmission distance is 10 meters (under the condition of no obstruction and no electromagnetic interference)

measurement of angle between two
planes in any direction (gyro technique)



Code	Range	Resolution	Accuracy
2199-1	single axis level: 4x90° dual axis level: $\pm 40^{\circ}$	0.01°	at 0° and 20°: $\pm 0.08^{\circ}$ at 20° and 70°: $\pm 0.15^{\circ}$ at 70° and 90°: $\pm 0.08^{\circ}$
	gyro angle meter: 360°	0.1°	$\pm 0.5^{\circ}$



connect to computer via wired data transmission



connect to mobile phone via bluetooth



bluetooth (optional)



wired data transmission (optional)

ABSOLUTE
LEVEL

BACKLIGHT

BUZZER ALARM
AT 0° AND 90°

WORKING TEMPERATURE
-5°C~50°C

IP67
WATERPROOF

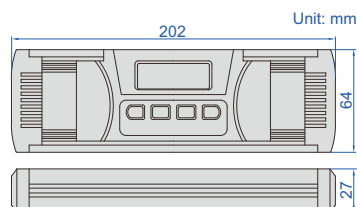


2175-360

DIGITAL LEVEL AND SLOPE METER

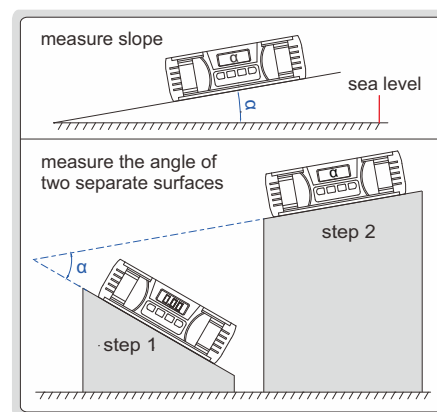


VIDEO



- IP67 dust/waterproof
- Used as level and slope meter
- Aluminum frame, shock absorbing rubber end caps
- 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, backlight/buzzer alarm, absolute and incremental measurement, unit (mm/m, %, °), HOLD (keep the reading)
- Three AAA batteries, automatic power off

Code	Range	Resolution	Accuracy
2175-360	0-360° (90°x4)	0.05° (=0.873mm/m)	at 0°: ±0.05°; at others: ±0.1°



ABSOLUTE
LEVEL

BACKLIGHT

BUZZER ALARM
AT 0° AND 90°

WORKING TEMPERATURE
-5°C~50°C

IP54
WATERPROOF

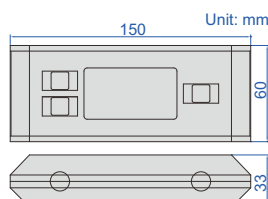


2179-360

DIGITAL LEVEL AND SLOPE METER

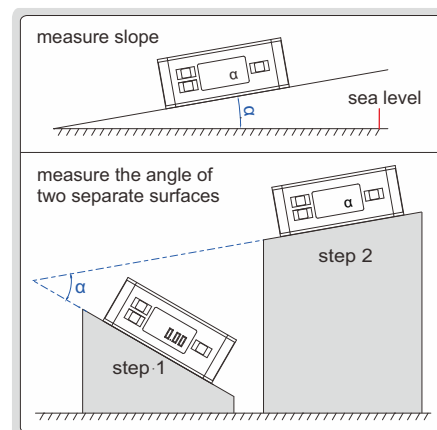


VIDEO



- 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

Code	Range	Resolution	Accuracy
2179-360	0-360° (90°x4)	0.05° (=0.873mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°



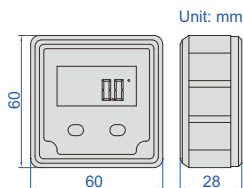
DIGITAL LEVEL AND SLOPE METER

POPULAR
MODEL

- 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 seconds 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



2170-1



Unit: mm

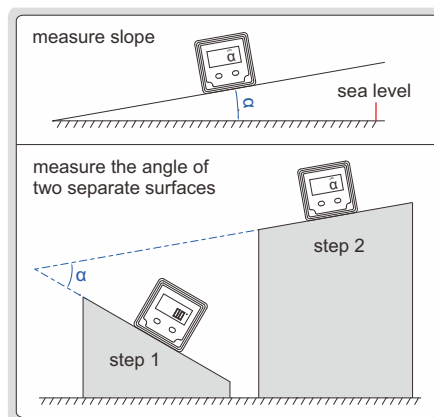
MAGNETIC
BOTTOM

WORKING TEMPERATURE
-5°C~50°C

BACKLIGHT

DISPLAY FLIPS OVER WHEN
THE BOTTOM FACES UP

ABSOLUTE
LEVEL



Code	Range	Resolution	Accuracy
2170-1	4x90°	0.1° (=1.745mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°



BLUETOOTH DIGITAL LEVEL AND SLOPE METER

- 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 seconds after use
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, ZERO, HOLD, absolute and incremental measurement
- Built-in bluetooth, transmission distance is 15 meters (under the condition of no obstruction and no electromagnetic interference). Android and iPhone APP are included
- One AAA battery, automatic power off in 5 minutes



2198-2

BACKLIGHT

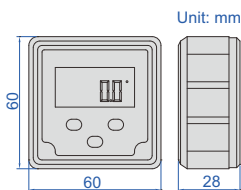
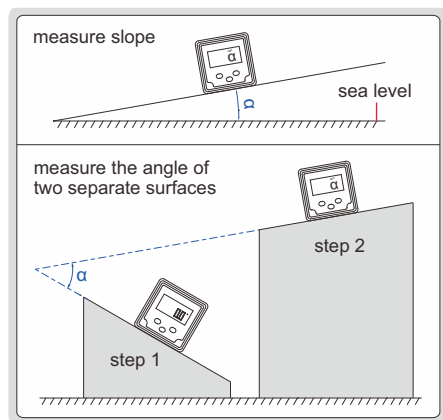
MAGNETIC
BOTTOM

DISPLAY FLIPS OVER WHEN
THE BOTTOM FACES UP

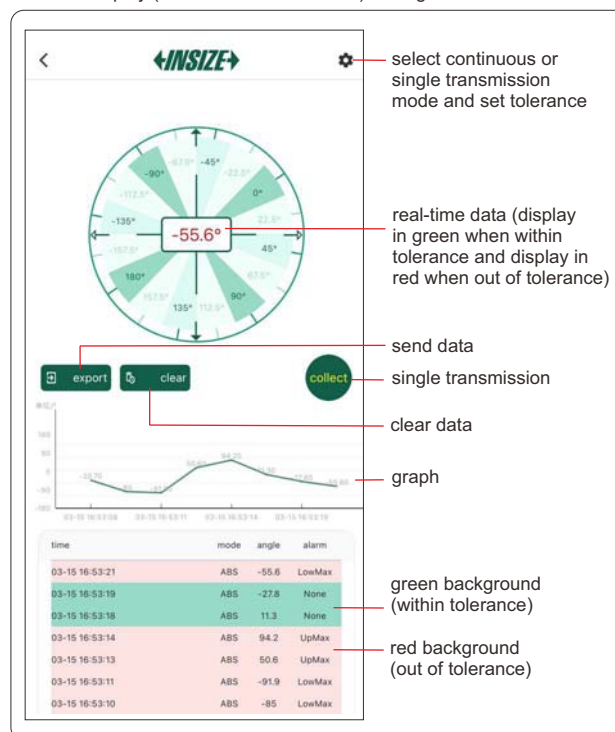
WORKING TEMPERATURE
-5°C~50°C

ABSOLUTE
LEVEL

Android and iPhone APP (included), can choose real-time display (continuous transmission) or single transmission



Unit: mm



Code	Range	Resolution	Accuracy
2198-2	4x90°	0.1° (=1.745mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°

NO NEED TO SET
ZERO BEFORE USE

FRAME LEVELS

INSIZE PLUS
MADE IN EUROPE



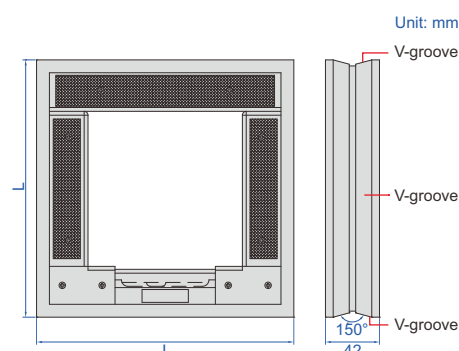
4906-150

magnet on the left side



4906-150M

- No need to set zero before use
- Three V-grooves for shafts (shafts dia. 19.3~115.9mm)
- With longitudinal vial

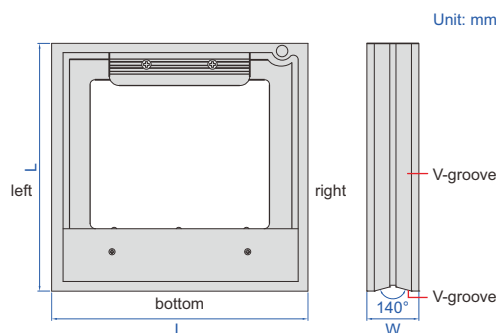


Code		Size (LxL)	Remark
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.1mm/m (=0.0057°)		
4906-150	4906-B150	150x150mm	—
4906-200	4906-B200	200x200mm	—
4906-300	4906-B300	300x300mm	—
4906-150M	4906-B150M	150x150mm	with magnet
4906-200M	4906-B200M	200x200mm	with magnet
4906-300M	4906-B300M	300x300mm	with magnet



VIDEO

- V-groove on bottom and left for shafts (shafts dia. 15~68mm)
- With transverse vial



FRAME LEVELS



4902-200

Code		Size (LxL)	W
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.05mm/m (=0.0029°)		
4902-150	4902-C150	150x150mm	40mm
4902-200	4902-C200	200x200mm	40mm
4902-300	4902-C300	300x300mm	45mm

BLOCK LEVELS

INSIZE PLUS
MADE IN EUROPE

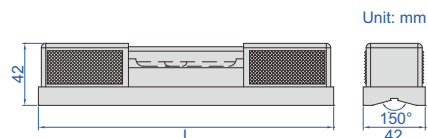
- No need to set zero before use
- V-groove on bottom for shafts (shafts dia. 19.3~115.9mm)
- With longitudinal vial



4905-200

NO NEED TO SET
ZERO BEFORE USE

Code		Size (L)
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.1mm/m (=0.0057°)	
4905-160	4905-B160	160mm
4905-200	4905-B200	200mm
4905-300	4905-B300	300mm
4905-500	4905-B500	500mm



Unit: mm

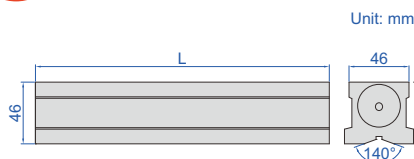
BLOCK LEVELS

POPULAR
MODEL



4903-200A

- V-groove on bottom for shafts (shafts dia. 15~68mm)
- With transverse vial



Unit: mm

Code		Length (L)
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.05mm/m (=0.0029°)	
4903-150A	4903-C150	150mm
4903-200A	4903-C200	200mm
4903-300A	4903-C300	300mm

SHORT LEVEL

INSIZE PLUS
MADE IN EUROPE

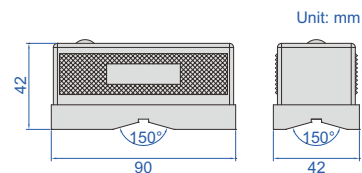
- No need to set zero before use
- Suitable for small spaces like crankshaft
- Longitudinal and transverse V-grooves on bottom for shafts (shafts dia. 19.3~115.9mm)
- With transverse vial



4907-90

NO NEED TO SET
ZERO BEFORE USE

Code	Length	Sensitivity
4907-90	90mm	0.1mm/m (=0.0057°)



Unit: mm

MINI LEVEL

INSIZE PLUS
MADE IN EUROPE

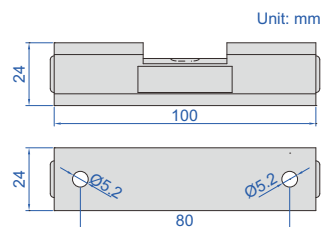
- No need to set zero before use
- With mounting holes (for M5 screws)



4908-100

NO NEED TO SET
ZERO BEFORE USE

Code	Length	Sensitivity
4908-100	100mm	0.1mm/m (=0.0057°)



Unit: mm

ABSOLUTE
LEVEL

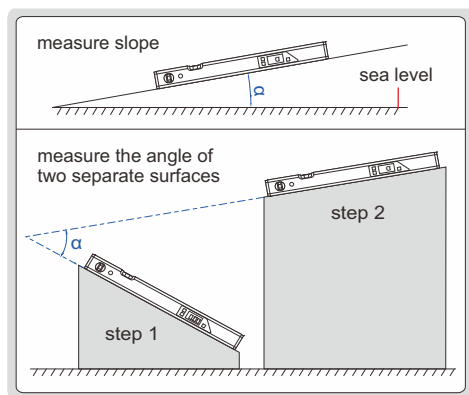
BACKLIGHT

WORKING TEMPERATURE
0°C~50°C

DIGITAL LEVELS AND SLOPE METERS



VIDEO

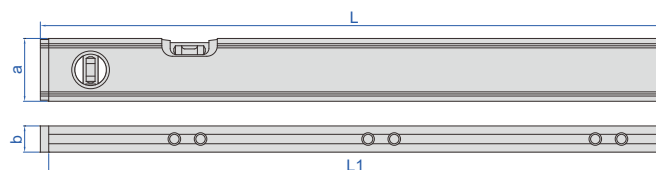


4910-400



4910-600

- With transverse and longitudinal vials
- Used as level and slope meter
- Aluminum frame, magnetic bottom
- 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 (not for **4910-400**), unit (mm/m, %, in/ft), conversion (not for **4910-400**), backlight
- The display flips over when the bottom faces up
- Two AAA batteries
- Automatic power off



(mm)

Code	Range	Resolution	Accuracy	Remark	L	L1	a	b
4910-400	0~360° (90°×4)	angle: 0.1°; slope: 1mm/m	±0.2°	both angle and slope are displayed	416	400	50	21
4910-600	0~360° (90°×4)	at 0° and 90°: 0.05° (=0.8725mm/m); at others: 0.1° (=1.745mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°	at 0° and 90° buzzer alarms	600	585	60	25

LIFETIME
WARRANTY VIALS

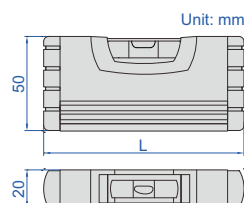
MAGNETIC BASE

HANDY LEVEL

- Shockproof vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C



4912-100



magnetic base surface



packaging

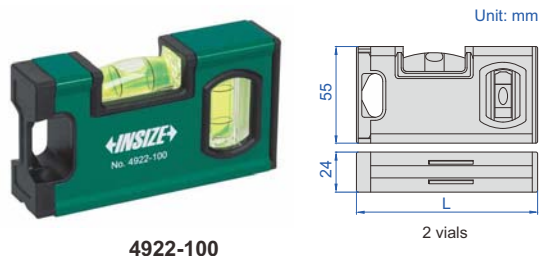


Code	Size (L)	Accuracy
4912-100	100mm	0.5mm/m

HANDY LEVELS

MAGNETIC BASE

LIFETIME
WARRANTY VIALS



4922-100



4922-150

Code	Size (L)	Accuracy	Number of vials
4922-100	100mm	0.5mm/m	2
4922-150	150mm	0.5mm/m	3
4922-200	200mm	0.5mm/m	3

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

CASTING ALUMINUM LEVEL

MAGNETIC BASE

LIFETIME
WARRANTY VIALS

magnetic bottom surface (milled)

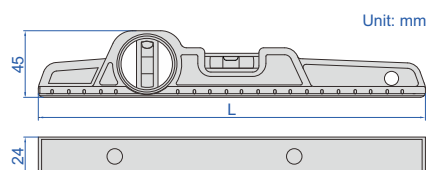


- Shockproof horizontal and vertical vials
- Magnetic base
- Working temperature: -15°C~55°C
- Casting aluminum body

Code	Size (L)	Accuracy
4913-250	250mm	0.5mm/m



4913-250



packaging



ALUMINUM LEVEL

MAGNETIC BASE

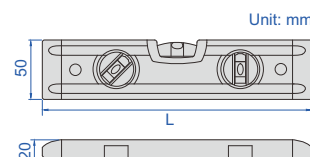
LIFETIME
WARRANTY VIALS

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C



4921-230

Code	Size (L)	Accuracy
4921-230	230mm	0.5mm/m



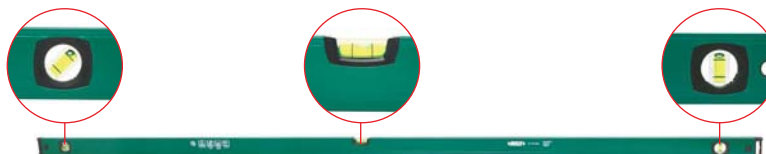
LIFETIME
WARRANTY VIALS

MAGNETIC BASE

ALUMINUM LEVELS



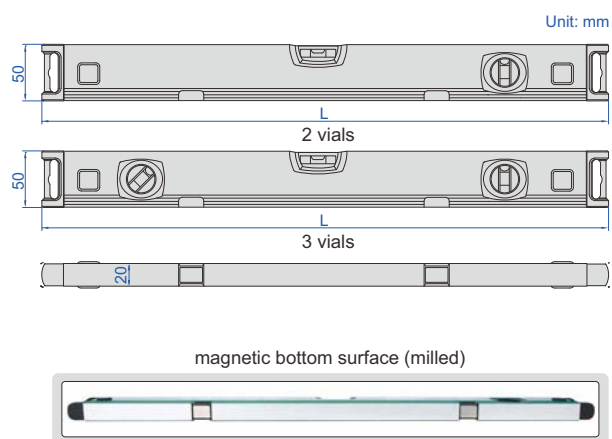
4914-600



4914-2000

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

Code	Size (L)	Accuracy	Number of vials
4914-300	300mm	0.5mm/m	2
4914-600	600mm	0.5mm/m	2
4914-800	800mm	0.5mm/m	2
4914-1000	1000mm	0.5mm/m	2
4914-1200	1200mm	0.5mm/m	2
4914-2000	2000mm	0.5mm/m	3



LIFETIME
WARRANTY VIALS

ALUMINUM LEVELS

- Top and bottom working surfaces
- Shock-proof and UV-proof vials
- Die casting aluminum alloy frame
- Zero position of horizontal vial can be set
- One graduation of horizontal vial is 2% slope
- Working temperature: -15°C~55°C

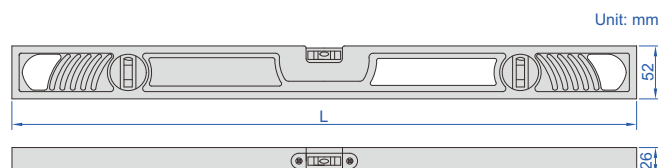


4911-600

bottom surface (non-magnetic, milled)



Code	Size (L)	Accuracy
4911-600	600mm	0.5mm/m
4911-800	800mm	0.5mm/m



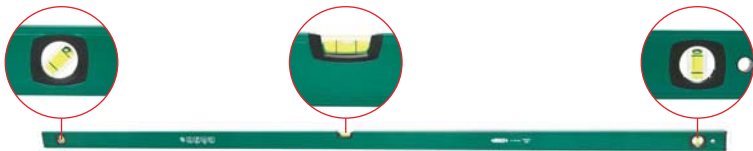
ALUMINUM LEVELS (BASIC TYPE)

MAGNETIC BASE

LIFETIME WARRANTY VIALS



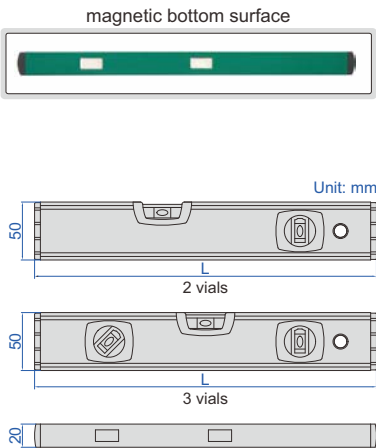
4918-300



4918-2000

- Shock-proof and UV-proof vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

Code	Size (L)	Accuracy	Number of vials
4918-300	300mm	1mm/m	2
4918-600	600mm	1mm/m	2
4918-800	800mm	1mm/m	2
4918-1000	1000mm	1mm/m	2
4918-1200	1200mm	1mm/m	2
4918-2000	2000mm	1mm/m	3



ALUMINUM LEVEL WITH RULER

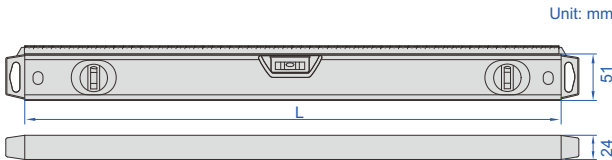
LIFETIME WARRANTY VIALS



4923-600

- Shockproof horizontal and vertical vials
- Non-magnetic milled base
- Shock absorbing rubber end caps
- Range of ruler: 0-60cm, graduation: 1mm
- Working temperature: -15°C~55°C

Code	Size (L)	Accuracy
4923-600	600mm	0.5mm/m



IP54
WATERPROOF

AUDIBLE AND VISUAL
ALARM WHEN OUT OF $\pm 3^\circ$

CROSS-LINE LASER LEVEL CODE 4917-30



VIDEO

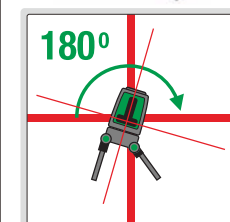
- Red horizontal and vertical cross laser lines
- Self-leveling within $\pm 3^\circ$, self-leveling time within 4s, audible and visual alarm when out of $\pm 3^\circ$
- Folding legs for angle and height adjustment
- Outdoor use with the detector (code: **4917-DETECTOR**)



application examples



folding legs for angle
and height adjustment



SPECIFICATION

Laser line width	2 \pm 0.5mm (within 5m)
Laser type	630~660nm, class II, <1mW
Beam angle	120 \pm 0.5°
Self-leveling range	$\pm 3^\circ$
Working distance	indoor: 30m, outdoor: 50m with detector (optional)
Accuracy	0.2mm/m
Operation temperature	-10~40°C
Power supply	3×AA batteries, for 3 hours working
Dimension	100×82×104mm
Weight	620g

OUTDOOR DETECTOR (OPTIONAL)

Detecting distance	horizontal 1~50m, vertical 1~30m
Detecting accuracy *	high accuracy ± 1.5 mm, low accuracy ± 2.5 mm
Power supply	9V battery
Dimension	168×58×30mm
Weight	140g (battery included)

* Use high accuracy detection mode within 15m, use low accuracy detection mode over 15m



stand
(included with outdoor detector)



outdoor detector (**optional**)

STANDARD DELIVERY

Main unit	1 pc
1/4" to 5/8" tripod adaptor	1 pc
Battery (AA)	3 pcs

OPTIONAL ACCESSORY

Outdoor detector	4917-DETECTOR
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SELF-LEVELING ROTARY LASER CODE GRL-L340

INDICATOR FLASHING
WHEN OUT OF $\pm 5^\circ$

IP65
WATERPROOF



VIDEO



detector (included)



remote controller (included)



bracket for C battery (included)



beam finder glasses (included)



tripod (included)

- Applicable fields: construction, decoration, pipeline and equipment installation
- Green laser beam rotates 360° horizontally or vertically
- Self-leveling range $\pm 5^\circ$ on both X and Y planes
- Alarm when inclination is out of $\pm 5^\circ$
- $\pm 5^\circ$ leveling range for manual mode on both X and Y planes
- 5 variable speeds 0-600rpm
- 6 scan modes
- Plumb up and plumb down dots
- Remote control for long distance
- Power supply: AC or DC

application examples



horizontal leveling

vertical leveling

working with detector

SPECIFICATION

Working range		indoor 50m, outdoor 300m (with detector)
Self leveling range		$\pm 5^\circ$
Horizontal/vertical beam accuracy		$\pm 0.1\text{mm/m}$
Main laser type		520~540nm, class 2, <1mW
Auxiliary laser type		645~655nm, class 2, <1mW
Rotating speed		0/60/120/300/600rpm
Scanning range		0/10/45/90/180/360°
Setting slope		X axis: $\pm 5^\circ$, Y axis: $\pm 5^\circ$
Operation temperature		-20~50°C
Maximum remote control distance		20m
Power supply	remote controller	2×1.5V AAA batteries
	main unit	NI-MH batteries or 4×1.5V C batteries
	detector	1x9V battery
Dimension		210×210×213mm
Weight		2.5kg

STANDARD DELIVERY

Main unit (including NI-MH batteries)	1 pc
C battery and bracket	1 set
Detector	1 pc
Remote controller	1 pc
Beam finder glasses	1 pc
Laser target	1 pc
Power adapter	1 pc
AAA battery	2 pcs
9V battery	1 pc
Tripod	1 pc