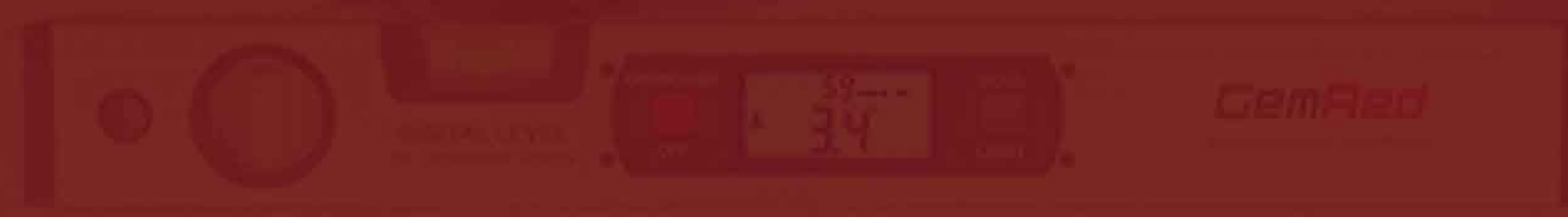


GemRed

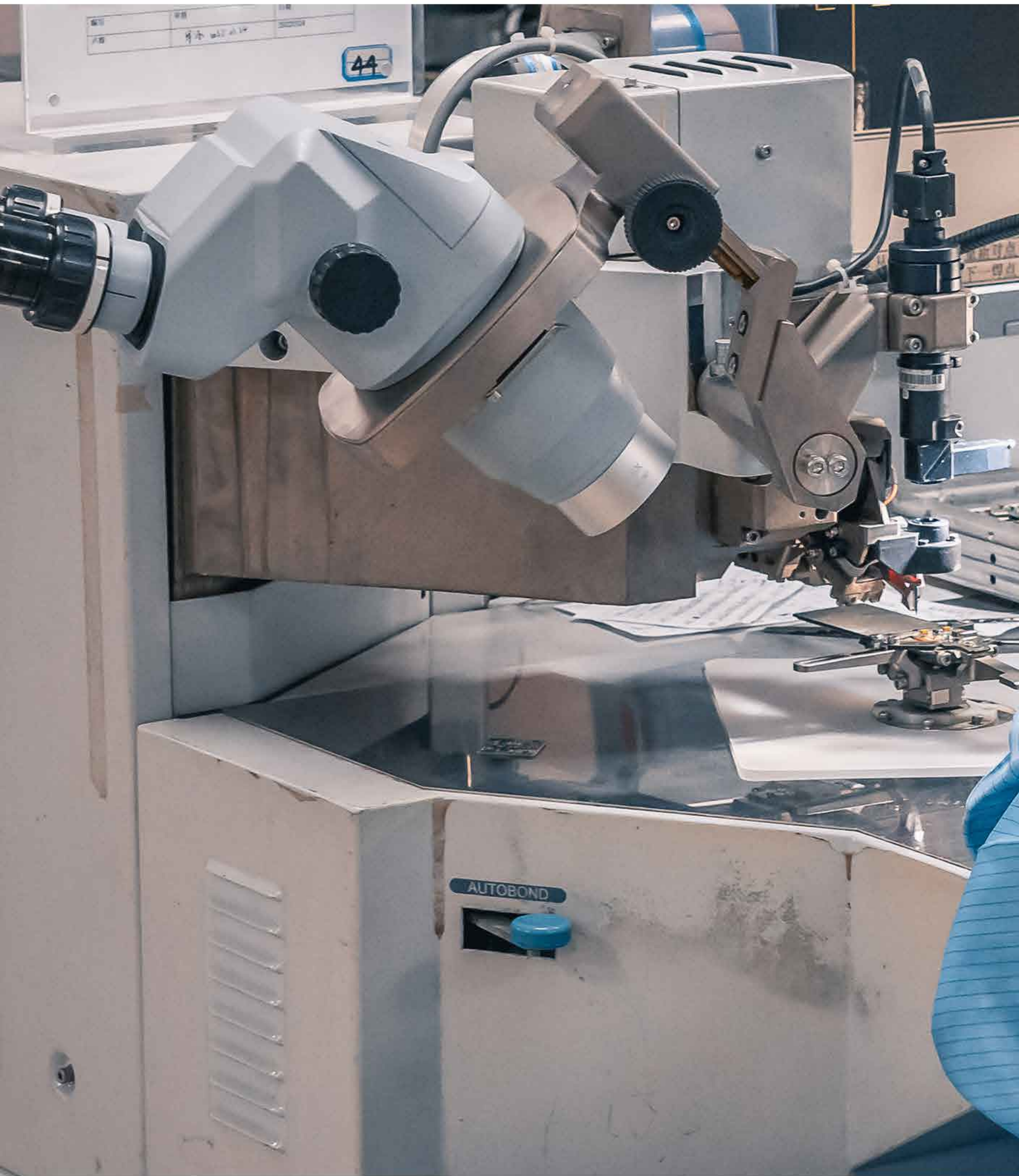
Specialize in measuring instruments.

Product Catalog



A Unicorn High-Tech Company From China

www.gemredtech.com



Founded in 2003, GemRed is a high-tech company that focuses on the development and application research of Capacitive Grating Sensors and MEMS sensors, with the production and sales of angle & level measuring instruments as our core business.

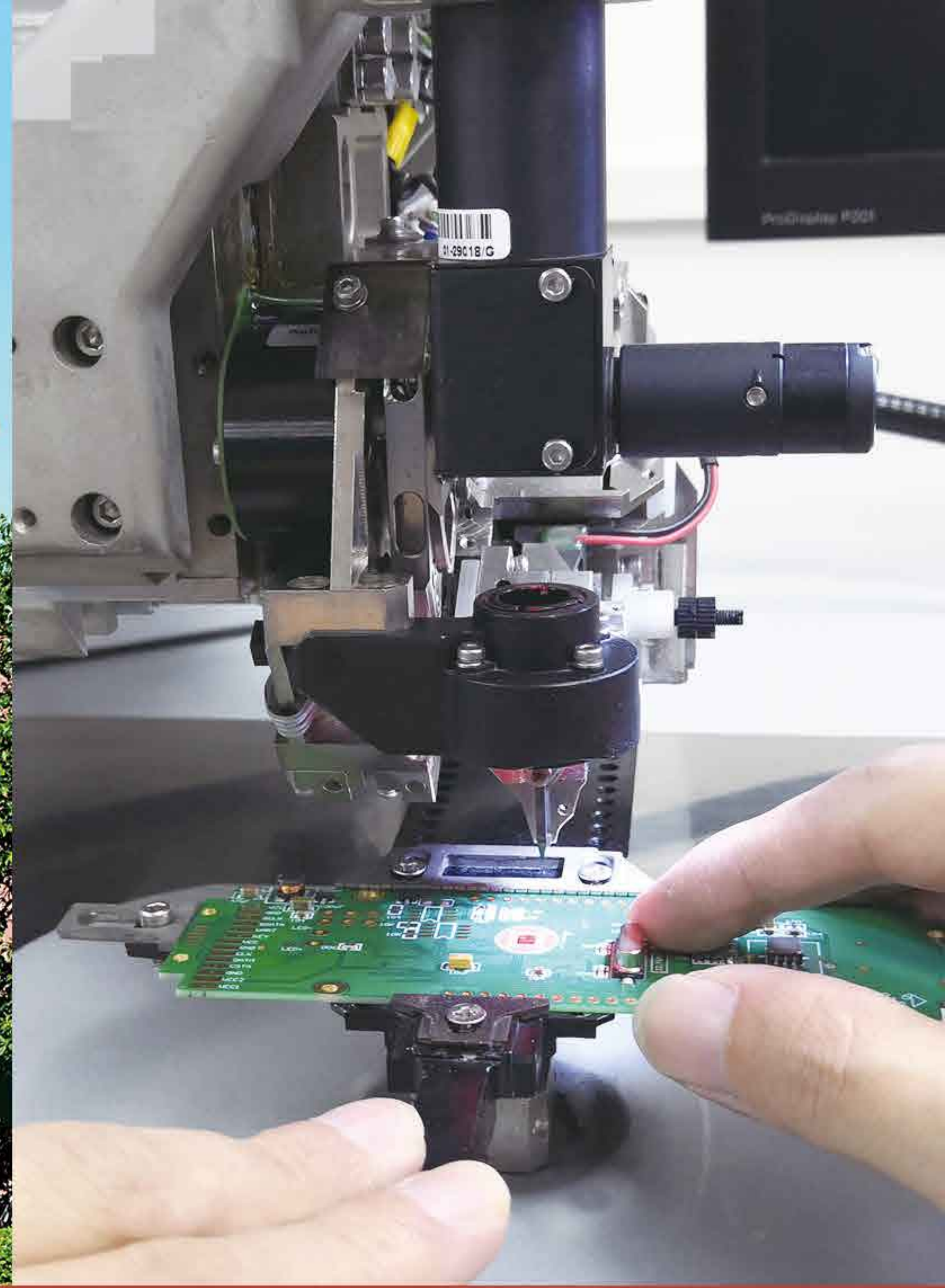
In GemRed's industrial detection products can be widely used in various fields, such as high-precision production & processing, engineering machinery, etc. And our sub-brand EJERAY also involves multiple fields including building decoration, health management, agriculture, forestry breeding industries, etc. GemRed is committed to providing customers with professional products and effective solutions.

GemRed Provide Intelligent Detection

Over the years, GemRed has insisted on dual efforts of brand and channel, combined online and offline marketing, and has been providing stable and reliable products for international well-known tool companies for over 19 years. So far, our products are available in **60+** countries, with an annual sales volume of **2,000,000+** sets.



Independent R&D Source Manufacturer **53** Patents



Quality Assurance



Why GemRed?

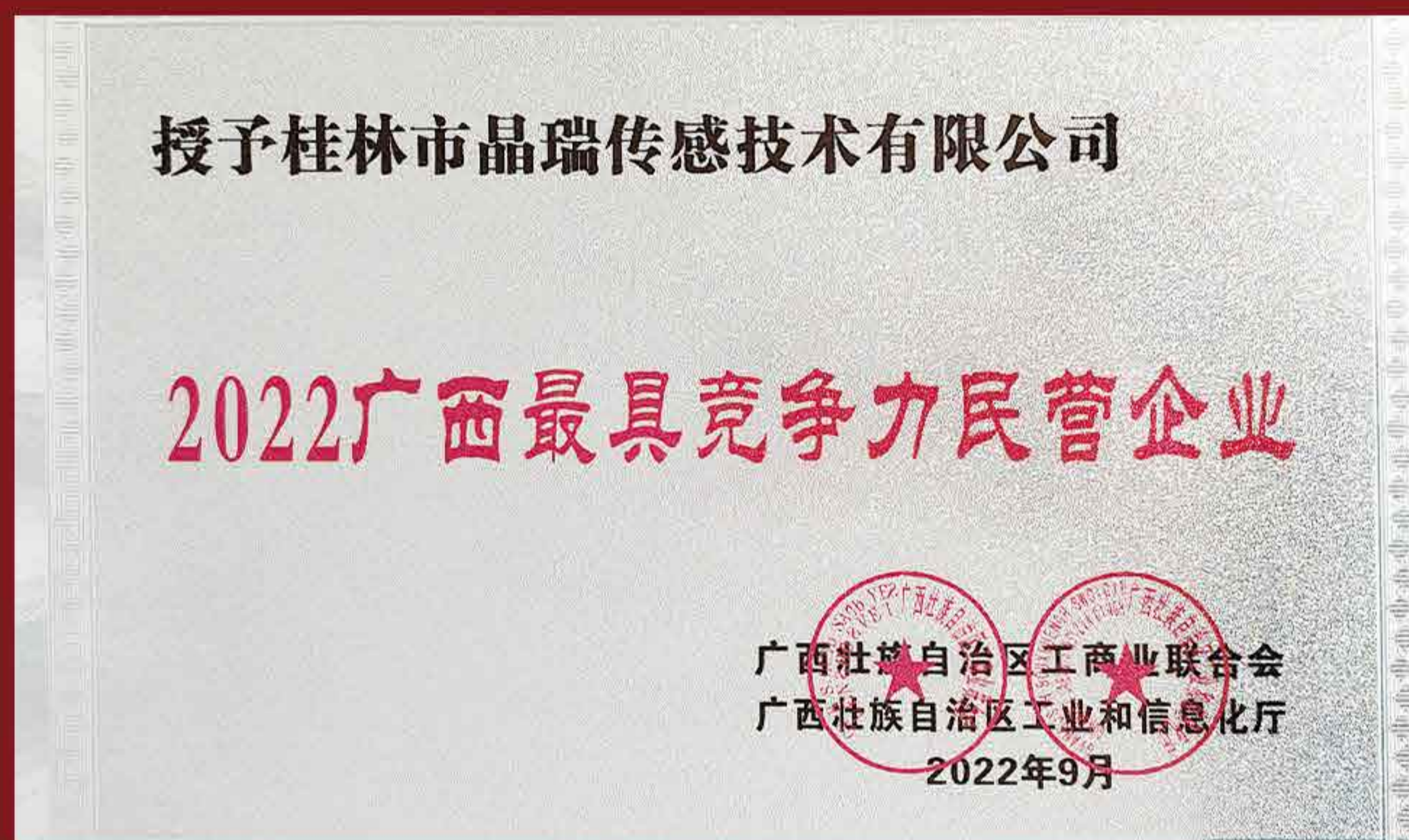
GemRed attaches great importance to technology R&D, which has a total of 25 technicians and senior engineers who have been working in the sensor field for many years, accounting for 15.62% of the total number of employees. The GemRed team has strong independent R&D and technological innovation capabilities. Over the years, GemRed has continued to make innovations and breakthroughs, always committed to providing customers with high-quality measurement solutions.

GF Machining Solutions Certificate

As the world's leading provider of high-sensing technology, GemRed provides comprehensive solutions for precise manufacturing industries.

Our Honors

Specialize in Manufacturing&Detecting



Catalog

1 Industrial Measurement Solution

P5-P9



Smart Leveling Instrument ML100 (Single-axis)



Smart Leveling Instrument ML100 (Two-axis)



Wireless display terminal



Capacitive Grating Touch Probe PM300



Universal Digital Protractor

2 Construction Machinery Measurement Solution

P10-P24



Digital Inclinometer Protractor IP65



Digital Inclinometer Protractor IP67



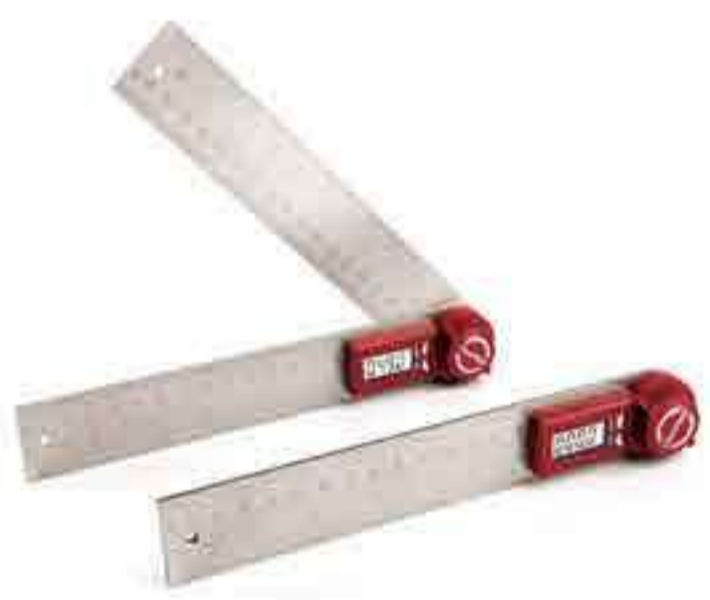
Household Smart Leveling Tool



Digital Level Box



Digital Gauge



2-in-1 Digital Angle Finder



DIY Digital Angle Finder



Digital Angle Finder



Digital Level&Angle Gauge



Digital Miter Saw Protractor



Digital Level Protractor



Digital Level Protractor



Digital Torpedo Level Protractor



Digital Caliper



Digital Level Protractor

3 Health Management Solution

P25-P30



Smart Body Tape MeasureA1



Smart Body Tape MeasureA2



Smart Body Tape MeasureA3



PetGrow-Smart Tape for Pets



Digital Medical Goniometer



Digital Medical Goniometer

Industrial Measurement Solution · Intelligent Monitoring of Machine Level

Smart Leveling Instrument ML100

- Fast digital display of tilt angle values.
- Multifunctional buttons meet measurement needs.
- Quick calibration ensures stable accuracy.
- Support for wireless connection, and data transmission to the Cloud.



Order Number: I-ML100

Technical Parameters

Resolution	0.01mm/m
Accuracy	±0.02mm/m
Measuring Range	±0.5mm/m
Power	DC3.3V-5.0V
Time Duration(h)	≈30h
Dimension(mm)	200x50x58(h)
Working Temperature	10°C ~ 40°C
Transportation and Storage Temperature	-20°C ~ 70°C



Industrial Measurement Solution · Intelligent Monitoring of Machine Tool Level

Wireless display terminal

- Support for Bluetooth connection to GemRed Smart Leveling Instruments.
- Support for single-axis and dual-axis measurements with digital display.
- Quick calibration ensures stable accuracy.
- Dual-axis detection has a trend of four-quadrant leveling adjustments.



Smart Leveling ML100



Smart Leveling ML200



Order Number: I-DT001

Technical Parameters

Auto Power-off	20min
Battery	2xAAA
Time Duration(h)	≈48h
Transmission Range	10m
Dimension(mm)	61.5x27x53.5(h)
Working Temperature	10°C ~ 40°C
Transportation and Storage Temperature	-20°C ~ 70°C



Industrial Measurement Solution · Intelligent Monitoring of Machine Level

Smart Leveling Instrument ML200

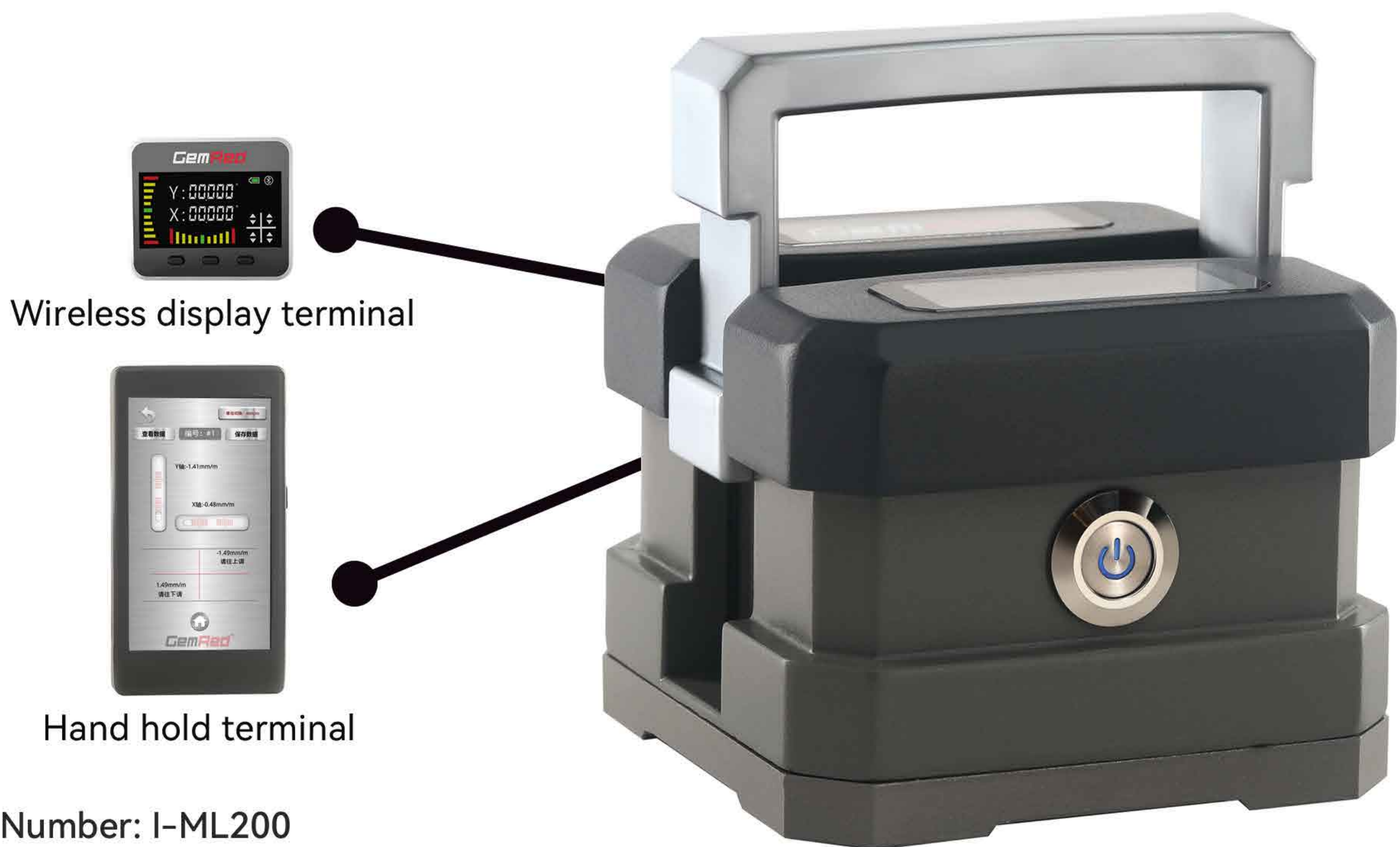


Wireless connection to the hand-hold terminal with digital display.

Quick calibration ensures stable accuracy.

Support for wireless connection, and data transmission to the Cloud.

Support for hand-hold terminal connect to multiple equipment at the same time.



Order Number: I-ML200

Technical Parameters

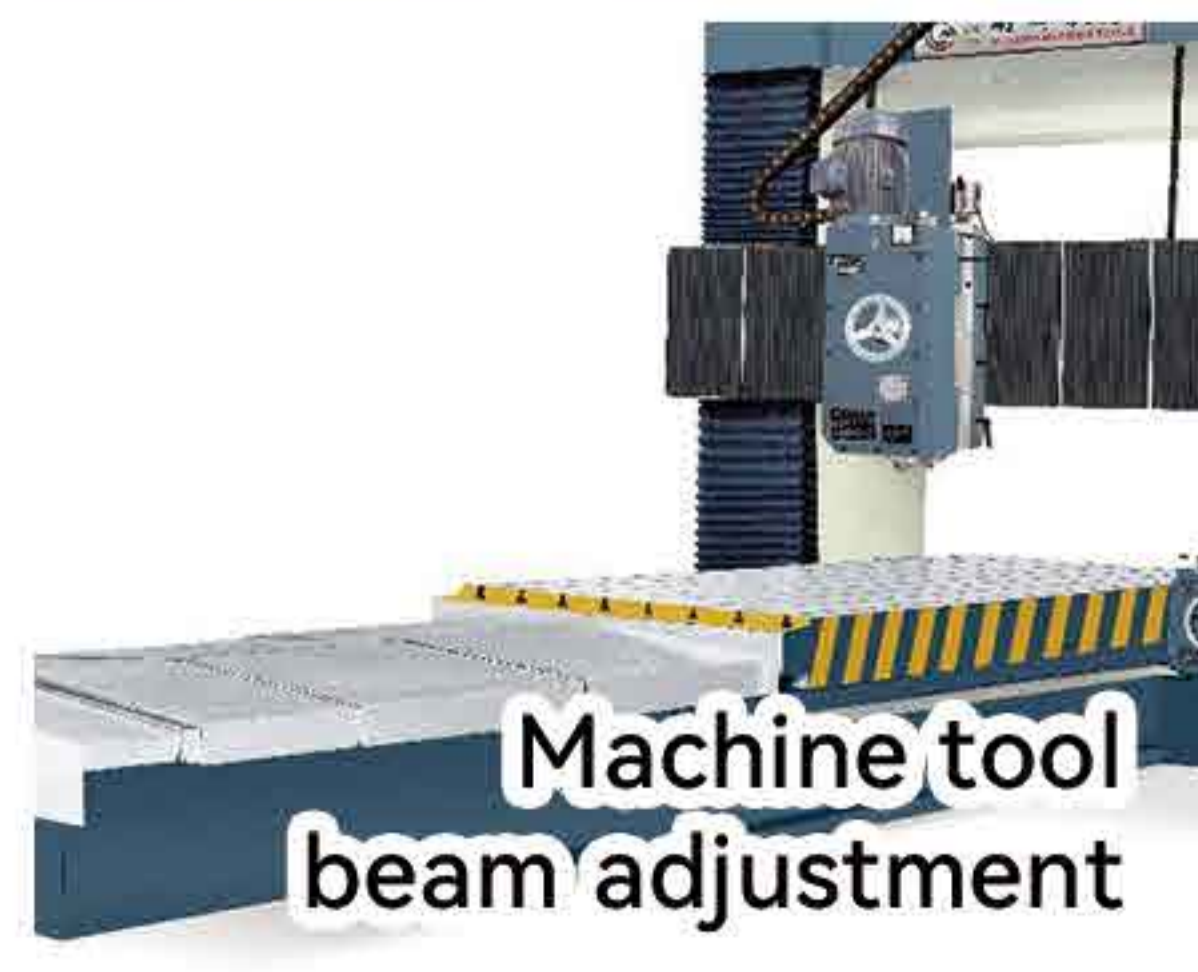
Resolution	0.01mm/m
Accuracy	±0.02mm/m
Measuring Range	±0.5mm/m
Power	DC3.3V-5.0V
Time Duration(h)	>15h
Dimension(mm)	100x100x78(h)
Working Temperature	10°C ~ 40°C
Transportation and Storage Temperature	-20°C ~ 70°C



Machine tool table adjustment



Machine tool assembly



Machine tool beam adjustment



Equipment detection

Capacitive Grating Touch Probe PM300

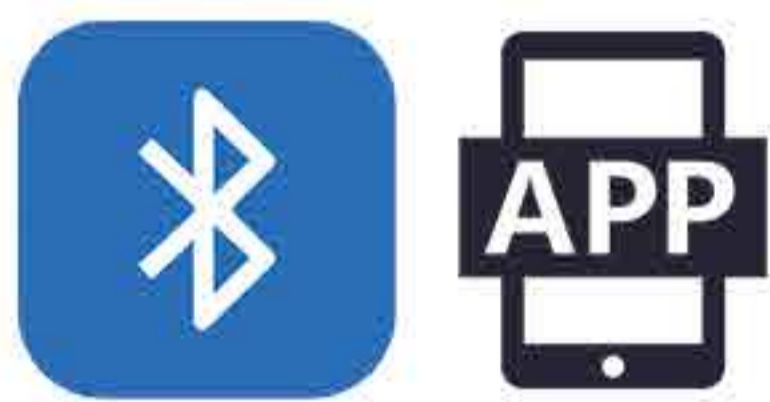
Auto-measuring: reduce operator error and improve the measurement accuracy with rapid measuring speed.

Plug&Play: easy to install and debug with low learning cost.

Autonomous system: independent from the original CNC system of the machine tool.

Bundled software: quickly generate measuring programs and point-checklists.

On-machine measuring: avoid re-clamping errors.



needle



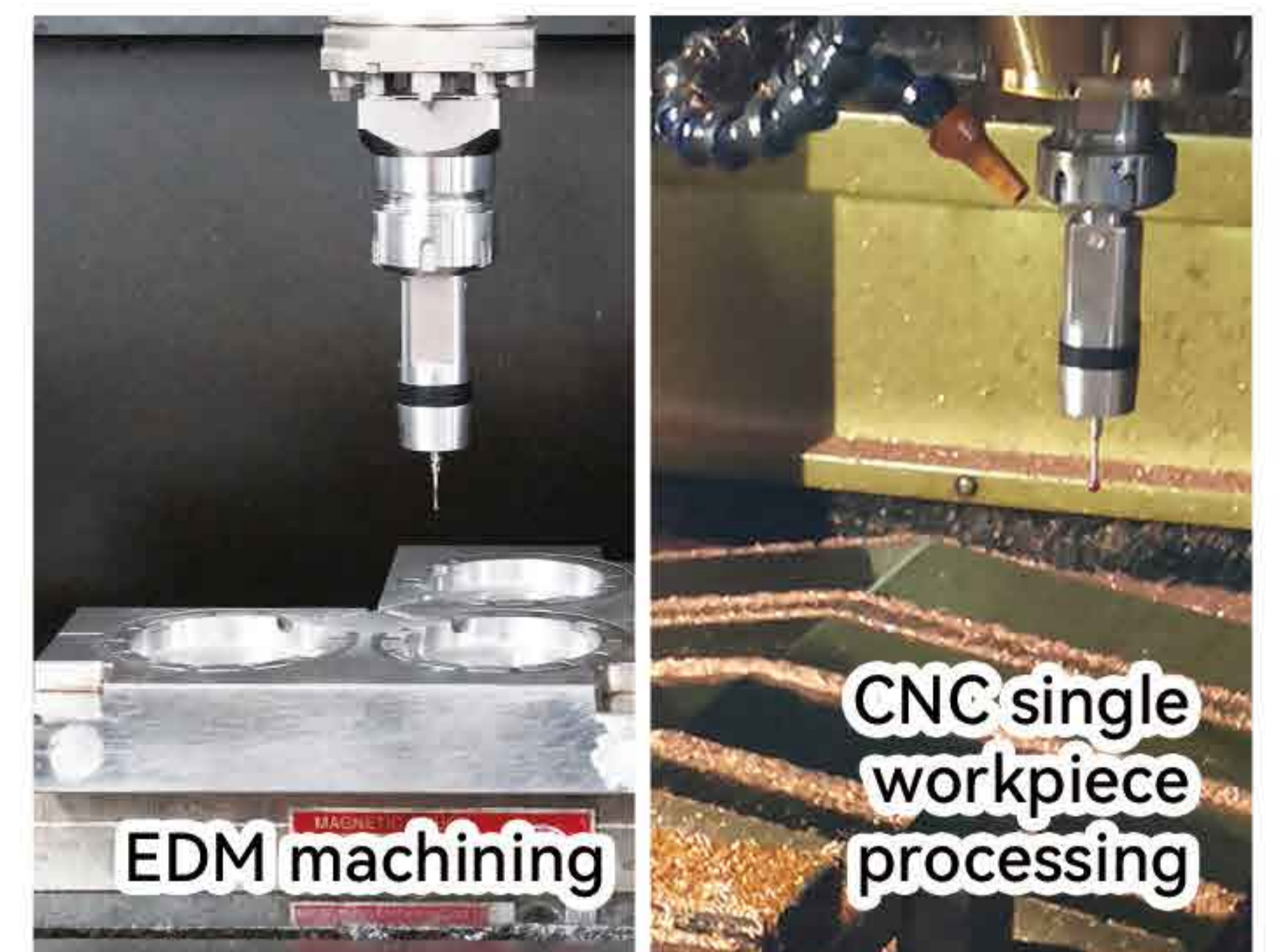
terminal



Order Number: I-PM300

Technical Parameters

Resolution	0.001mm
Accuracy	X/Y:±0.006mm; Z:±0.002mm
Measuring Range	X/Y:±1mm; Z:0.2 ~ 2.7mm
Battery	ER14250 (3.6V)
Time Duration(h)	≈480h
Degree of Protection	IP68
Working Temperature	5°C ~ 40°C
Transportation and Storage Temperature	-20°C ~ 70°C



Industrial Measurement Solution · Workpiece Machining Error Detection

Universal Digital Protractor

Accurate readings display on the big LCD screen.

Measuring at power-on with ABS mode, no calibration required.

Meet high-precision workpiece measuring needs with the accuracy of $\pm 4'$.

Easily switch to REF mode with one-click.

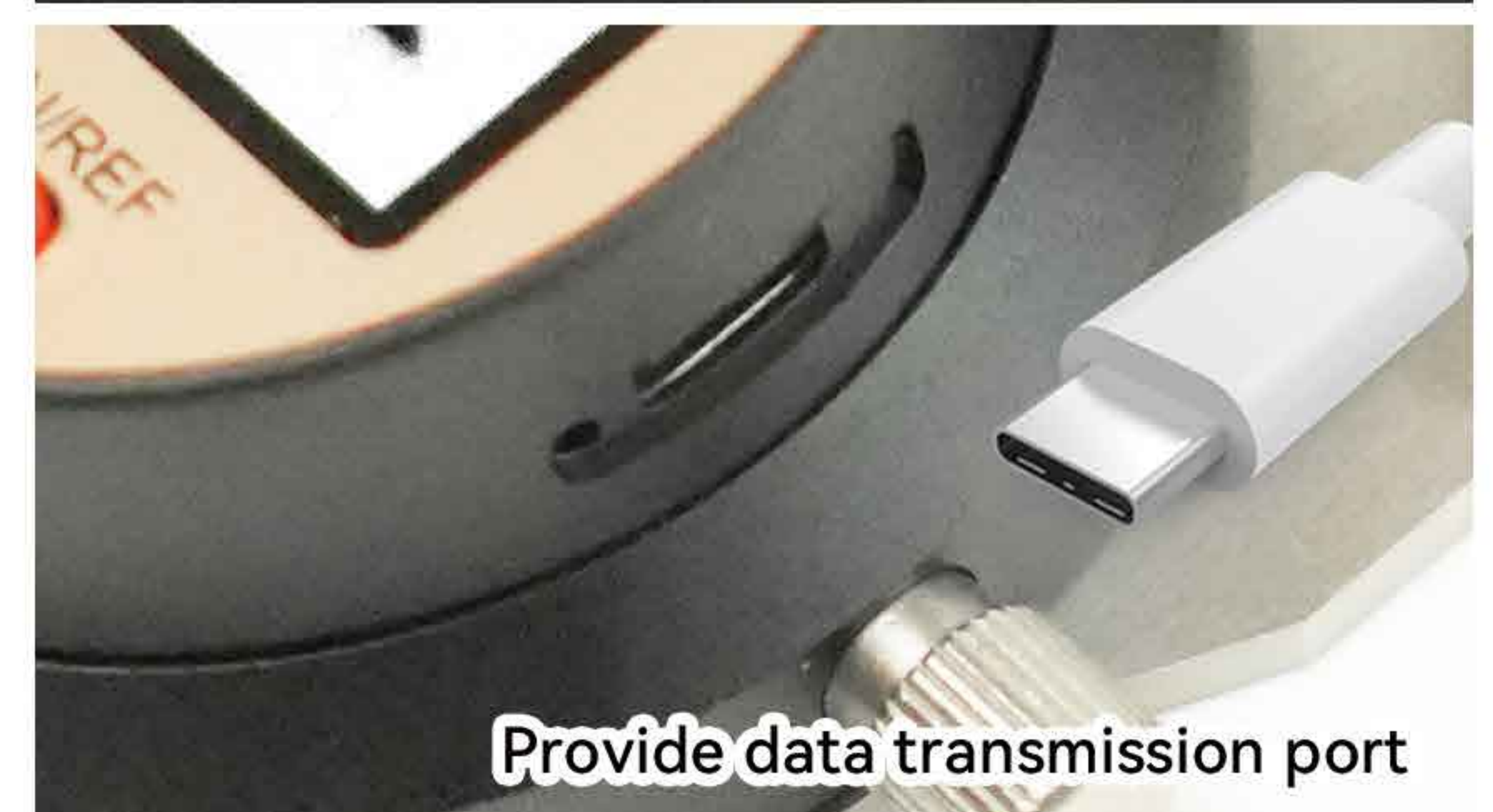
Support with data wireless transmission to the Cloud.



Order Number: I-UP100

Technical Parameters

Resolution	1' /0.01°
Accuracy	$\pm 4'$ / $\pm 0.07^\circ$
Measuring Range	0~360°; 2x180°; 4x90°
Battery	CR2032
Auto Power-off	5min
Degree of Protection	IP54
Working Temperature	0°C ~ 40°C
Transportation and Storage Temperature	-20°C ~ 70°C
Blade Sizes	150mm; 300mm



Digital Inclinometer Protractor IP65



- Quick measurement and digital display with backlit LCD screen.
- IP65 protection level, suitable for various environments.
- Screen auto flip.
- Easy to attach over the iron objects with the built-in magnetic base.
- Easy to record with the hold data function.



82413-00B--Built-in magnets

Order Number: 82413-00C

Technical Parameters

Resolution	0.05°
Accuracy	0° or 90°:±0.05° other:±0.15°
Dimension (mm)	162x60x33
Weight (g)	256
Measuring Range	4x90°
Battery	2×AAA
Working Temperature	0°C ~ 50°C
Other models	82413-00--No magnet built-in



Construction Machinery Measurement Solution · Inclination Measuring

Digital Inclinometer Protractor IP67

Provide high-precision MEMS level sensing hardware for track inspection trolleys.

Use for high-speed railways with laid rails, trams.

Use for the detection of the inclination of the subway and other tracks.

IP65 degree of protection

Support for Bluetooth connection to the online systems.



■ Order Number: 82418

■ Technical Parameters

Resolution	0.05°
Accuracy	0°:±0.05° other:±0.10°
Dimension (mm)	201x64x28.5
Weight (g)	340
Measuring Range	4x90°
Battery	3×AAA
Working Temperature	-10°C ~ 50°C
Magnets in Base or Not	yes



Device Installation



Aluminum Measurement Surface

Construction Machinery Measurement Solution · Inclination Measuring

Digital Level Box

- Easy to read on the green backlit screen.
- Thickened metal frame.
- Convenient to read with the data auto-invert function.
- Built-in magnetic base.
- Three-button model sets with the "HOLD" function.



82412VB-00(Built-in V-Base)



82412LB-00(With a Bubble)



82412SB-00(With Three-Button)



Order Number: 82412BB-00

Technical Parameters

Resolution	0.1°
Accuracy	±0.2°
Dimension (mm)	60x60x25
Weight (g)	70
Measuring Range	4x90°
Battery	AAA
Working Temperature	0°C ~ 50°C



DIY Digital Angle Finder

Easy to read on the full digital LCD screen.

Easy to record by fastening the screw to keep the data.

Using the perfectly positioned bubble level to ensure the accuracy of measurements.

Made of oxidized AL, the material is strong and durable.



Order Number: 82306-300

Technical Parameters

Resolution	0.1°
Accuracy	±0.3°
Dimension (mm)	304x50x25
Weight (g)	340
Measuring Range	0°~225°
Battery	CR2032
Working Temperature	0°C ~ 40°C
Number of Bubbles	Two-bubbles



Digital Angle Finder

Easy to read on the full digital LCD screen.

Fastening screw to fix the measuring angle in any position.

Easy to record by pressing "HOLD" button to keep the data.

The V-groove design of the stainless steel measuring arm is convenient for marking.

Made of oxidized aluminum alloy material, the ruler body is high durability and reliability.



Order Number: 82302-00

Technical Parameters

Resolution	0.05°
Accuracy	±0.15°
Dimension (mm)	268x50x25
Weight (g)	335
Measuring Range	0°~360°
Battery	CR2032
Working Temperature	0°C ~ 50°C



Digital Level & Angle Gauge

- Equip with a full LCD display for easy reading.
- Easily adapt to dim environments with the blue LED-backlit.
- Support collision angle calculation, and no need for 0° calibration.
- Made of oxidized AL, the material is strong and durable.
- Horizontal and vertical bubble levels help you check and calibrate.



Order Number: 83015

Technical Parameters

Resolution	0.05°
Accuracy	±0.1°
Dimension (mm)	485x50x62
Weight (g)	863
Measuring Range	0°~225°
Battery	2×AAA
Working Temperature	-10°C ~ 50°C



Digital Miter Saw Protractor

Directly display the angle for the saw setting of the miter cut.

One-click switches to “Miter/Single” mode.

Easy to read with the reversible LCD display.

High-accuracy measurements with a stable bearing.

Strong and durable, it is made of safe polymer synthetic material.



■ Order Number: A-MP001

■ Technical Parameters

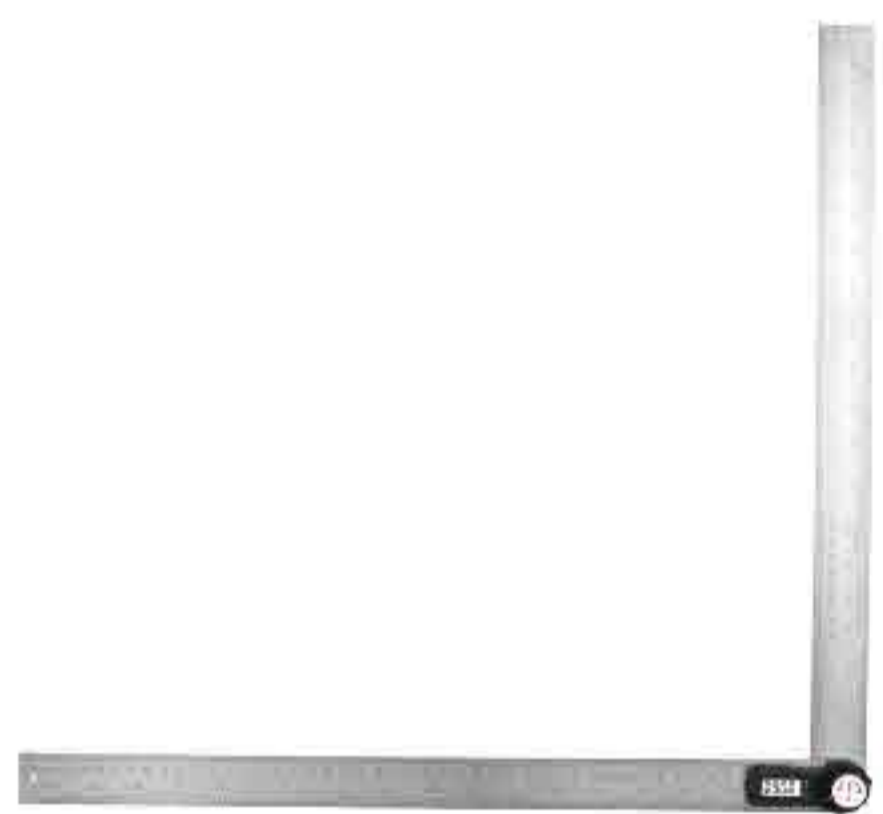
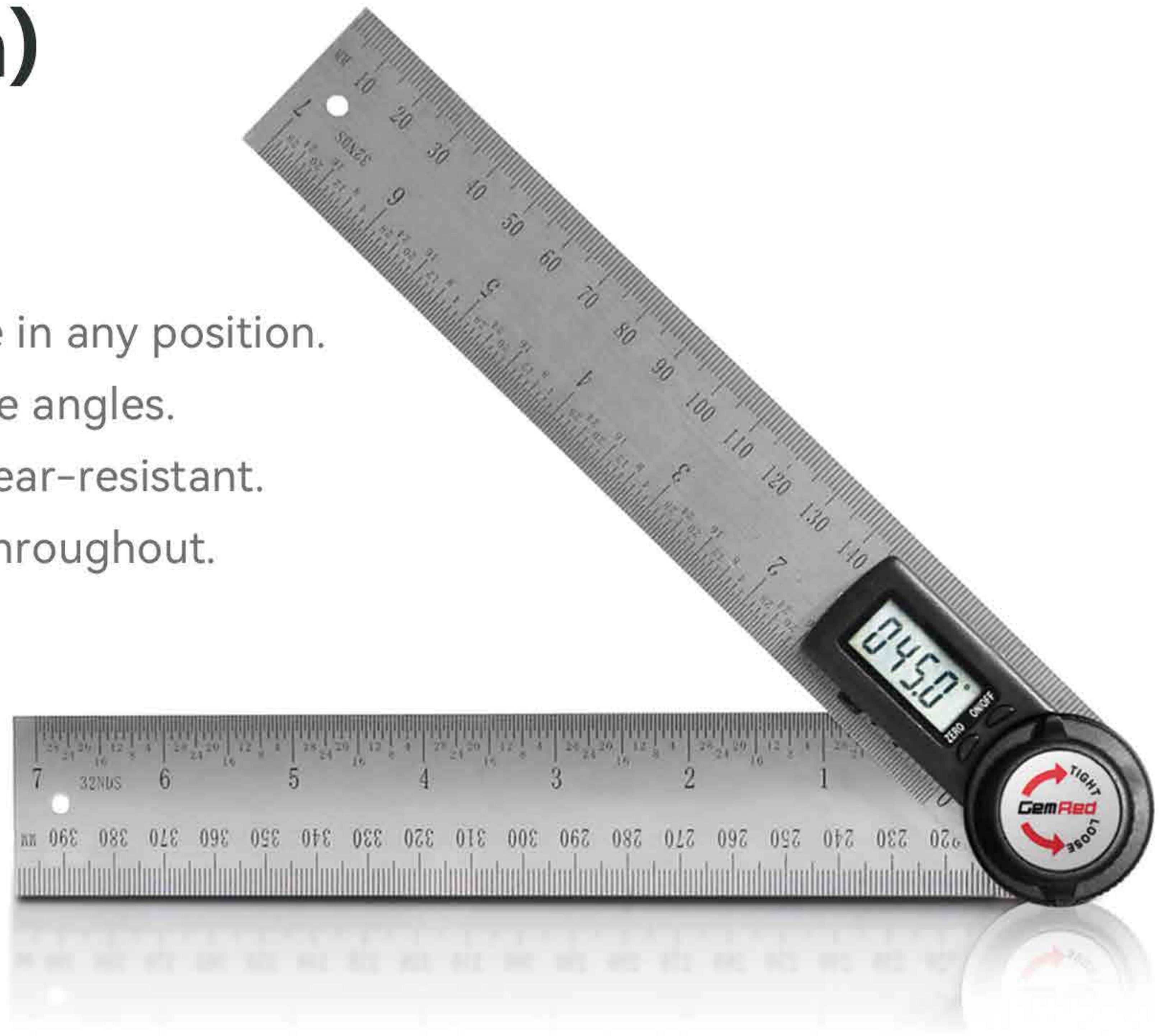
Resolution	0.1°
Accuracy	±0.5°
Dimension (mm)	181×62×21
Weight (g)	63
Measuring Range	0°~360°
Battery	CR2032
Working Temperature	0°C ~ 50°C



Construction Machinery Measurement Solution · Angle Measuring

2-in-1 Digital Angle Finder (Stainless Steel 200mm)

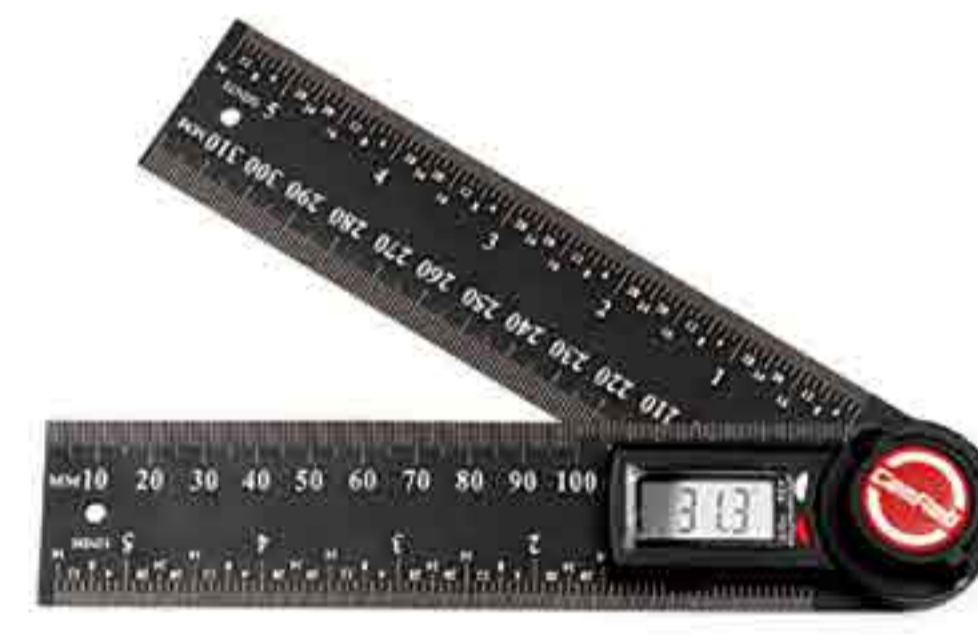
- Quick readings on full digital LCD screen.
- Fastening screw to fix the measuring angle in any position.
- Reset data in any position, measure relative angles.
- Engraved by laser, the scale is clear and wear-resistant.
- High-quality material with stainless steel throughout.



82305-500DB2-in-1 Digital Angle Finder
(Stainless Steel 500mm)



82305-300DB 2-in-1 Digital Angle Finder
(Stainless Steel 300mm)



82305-200A2-in-1 Digital Angle Finder
(AL 200mm)



82311-200P2-in-1 Digital Angle Finder
(Plastic 200mm)

Order Number: 82305-200D

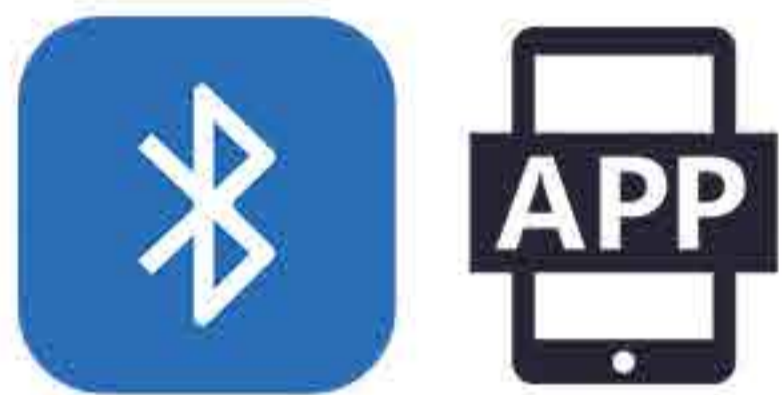
Technical Parameters

Resolution	0.1°
Accuracy	±0.3°
Dimension (mm)	218x20x35
Weight (g)	163
Measuring Range	360°
Battery	CR2032
Working Temperature	0°C ~ 50°C



Household Smart Leveling Tool

Fully intelligent App display
 Support to adjust and view the vehicle titled status in real time.
 Adjust to the level quickly and accurately according to the indicated angle.
 Support with temperature offset algorithm, and it functions in all different types of climates.
 two-axis level.



Order Number: L-RV002

Technical Parameters

Resolution	0.1°
Accuracy	±0.2°
Dimension (mm)	115×34.5×44.5
Weight (g)	80
Measuring Range	±10°
Battery	800mAh
Power	ER14250(3.0V-3.6V)
Charging Port	TYPE-C
Working Temperature	-10°C ~ 50°C



Digital Level Protractor (Three-Button)

Digital display on the blue backlit screen.

Convenient to read with the data auto-invert function.

Built-in buzzer. Automatically remind when the level almost reaches 0° or 90°.

Easily switch among 4 different units (° % mm/m in/ft) .

Built-in magnets for easy adsorption on metal surfaces. (Optional)



Order Number: 82103-600M

Technical Parameters

Resolution	0°/90°:0.05° other:0.1°
Accuracy	0°/90°:0.05° other:±0.2°
Dimension (mm)	600x60x25
Weight (g)	600
Measuring Range	4x90°
Battery	2×AAA
Working Temperature	-10°C ~ 50°C
Magnets in Base or Not	Built-in magnets
Length Sizes	400mm 800mm 1000mm 1200mm



Digital Level Protractor (Two-Button)

Digital display on the blue backlit screen.

Convenient to read with the data auto-invert function.

Support absolute angle & relative angle measurements.

Built-in magnets for easy adsorption on metal surfaces. (Optional)



Order Number: 82102-400M

Technical Parameters

Resolution	0.1°
Accuracy	±0.2°
Dimension (mm)	416x50x21
Weight (g)	280
Measuring Range	4x90°
Battery	2×AAA
Working Temperature	-10°C ~ 50°C
Magnets in Base or Not	yes



Construction Machinery Measurement Solution · Level Measuring

Digital Level Protractor

Digital display on the blue backlit screen.

Convenient to read with the data auto-invert function.

Protection Grade: IP65

Easily switch to 4 different units.

Built-in buzzer. Automatically remind when the level almost reaches 0° or 90°. (Optional)

Built-in magnets for easy attachment on metal surfaces. (Optional)



Order Number: 92107-150

Technical Parameters

Resolution	0.1°
Accuracy	±0.2°
Dimension(mm)	150x50x21
Weight(g)	100
With Bubbles or Not	No
Measuring Range	4x90°
Battery	AAA
Working Temperature	-10°C ~ 50°C



Construction Machinery Measurement Solution · Level Measuring

Digital Torpedo Protractor Level

Easy to read on the green backlit screen.

Convenient to read with the data auto-invert function.

High-definition bubbles help to check and calibrate levels.

Aluminum alloy measuring base with built-in magnets.-Built-in buzzer. Automatically remind when the level almost reaches 0° or 90°.

Easily switch to 3 different units (° ‰ in/ft) .



■ Order Number: 82420

■ Technical Parameters

Resolution	0.05°
Accuracy	0° or 90°:±0.05° other:±0.2°
Dimension (mm)	228×52×28.5
Weight (g)	117
Measuring Range	4x90°
Battery	AAA
Working Temperature	-10°C ~ 50°C



Digital Gauge

- For horizontal and vertical measurement.
- For manual routers and bench routers.
- For measuring grooves with a depth of 60mm, accurate to 0.1mm.
- Locking Function.
- Easy to read with digital display.



Order Number: 81105

Technical Parameters

Resolution	0.05mm
Accuracy	±0.1mm
Dimension (mm)	110x143x23
Weight (g)	90
Measuring Range	Height : 80mm ; Depth: 50mm
Battery	CR2032
Working Temperature	0°C ~ 50°C



Digital Caliper

Advanced process.

Thumb Wheel and Lock Mechanism.

Waterproof and dustproof.

Accurate measurements.



■ Order Number: 81204-00A

■ Technical Parameters

Resolution	0.01mm
Accuracy	±0.03mm
Dimension (mm)	235x78x15
Weight (g)	172
Measuring Range	150mm
Battery	LR44
Working Temperature	0°C ~ 50°C



Health Management Solution · Smart Manage Body Shape

Smart Body Tape Measure A1

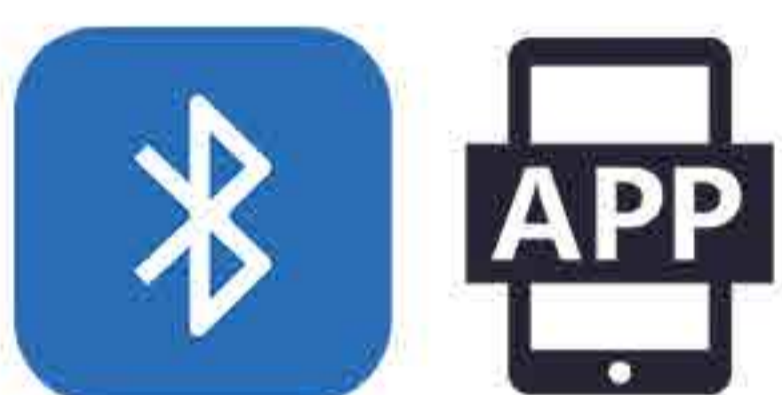
Quickly measure the user's body circumferences, smart record periodic changes.

Analyze body shape and waist-to-hip ratio.

Easy to read on the big LCD screen.

Accurate measurements with the accuracy as 0.1 cm.

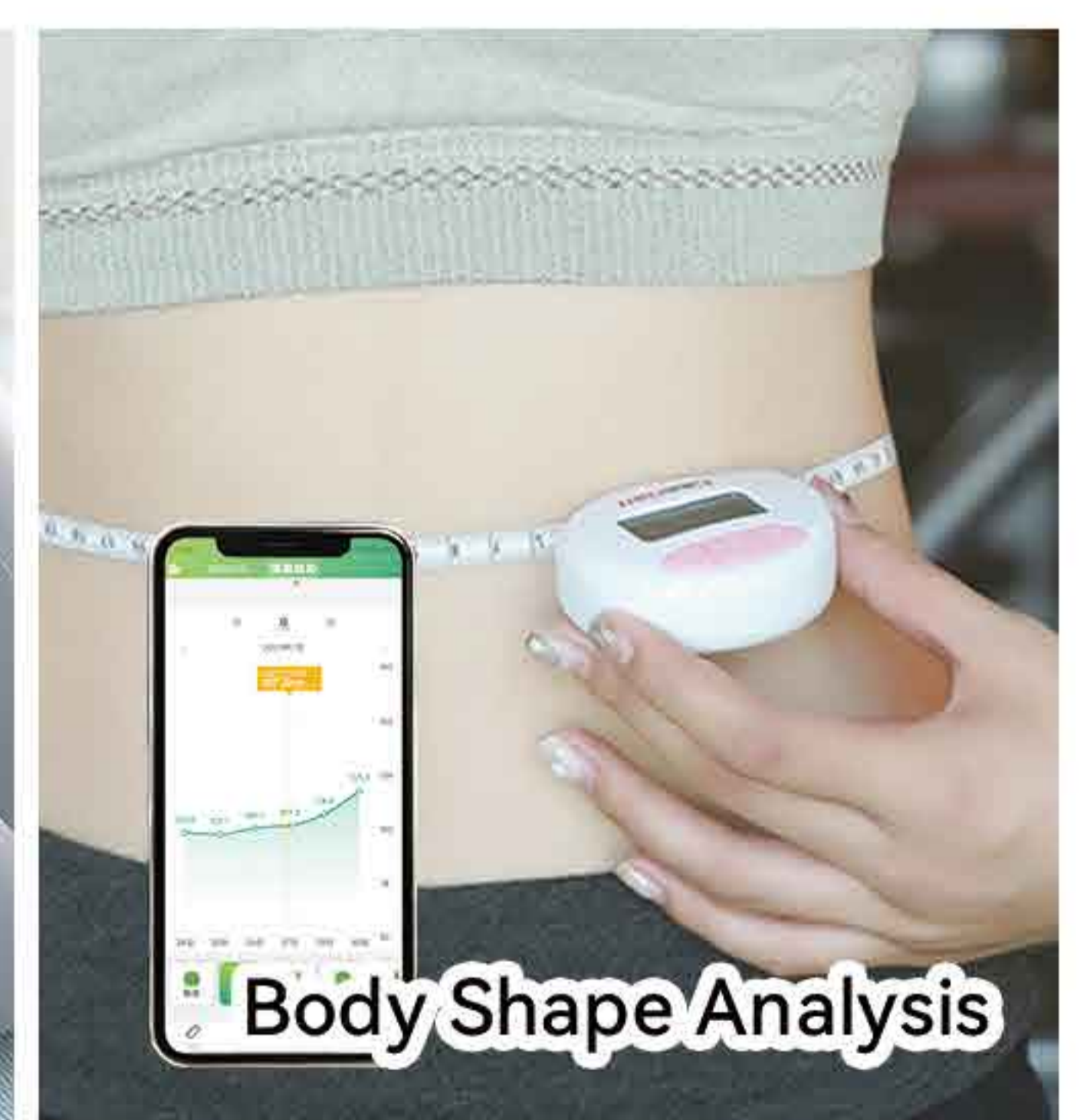
Record the changes in 11 parts of the body.



Order Number: 84103-150

Technical Parameters

Resolution	0.1cm
Accuracy	2‰
Dimension (mm)	71x58x27
Weight (g)	56
Measuring Range	1500mm
Battery	CR2032
Working Temperature	0°C ~ 40°C



Health Management Solution · Smart Manage Body Shape

Smart Body Tape Measure A2

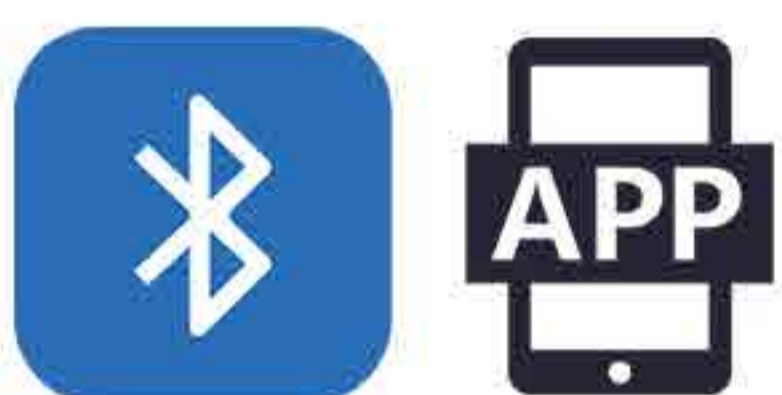
Quickly measure the user's body circumferences, smart record periodic changes.

Analyze body shape and waist-to-hip ratio.

Easy to read on the big LCD screen.

Accurate measurements with the accuracy as 0.1 cm.

Record the changes in 11 parts of the body.



■ Order Number: HT-001

■ Technical Parameters

Resolution	0.1cm
Accuracy	2‰
Dimension (mm)	66x66x28
Weight (g)	62
Measuring Range	1500mm
Battery	CR2032
Working Temperature	0°C ~ 40°C



Body Shape Management



Body Shape Analysis



Smart Healthcare Detection



Smart Tailoring

Health Management Solution · Smart Manage Body Shape

Smart Body Tape Measure A3

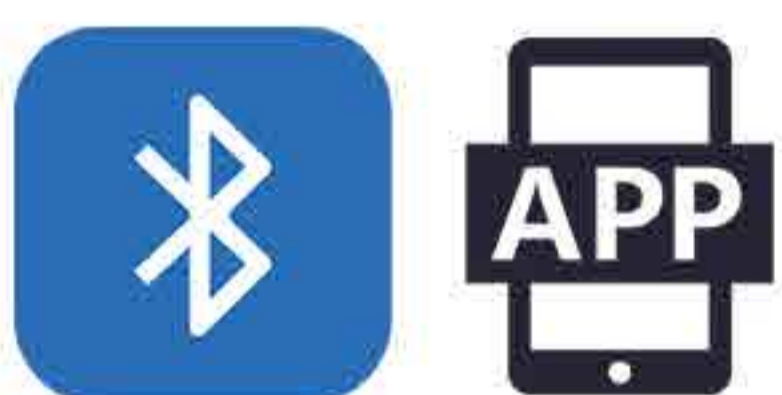
Quickly measure the user's body circumferences, smart record periodic changes.

Analyze body shape and waist-to-hip ratio.

Easy to read on the big LCD screen.

Accurate measurements with the accuracy as 0.1 cm.

Record the changes in 11 parts of the body.



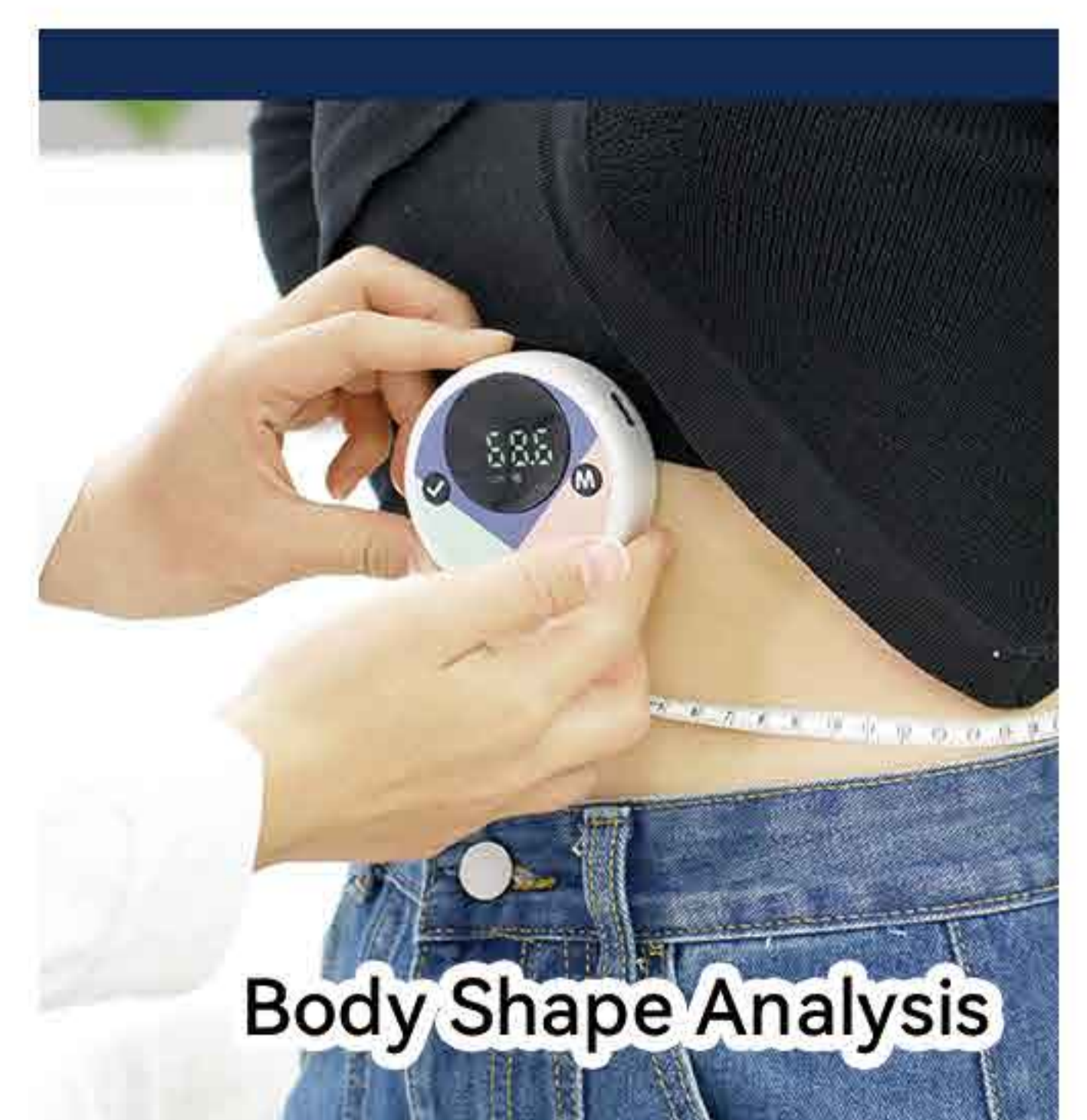
■ Order Number: HT-001

■ Technical Parameters

Resolution	0.1cm
Accuracy	2‰
Dimension (mm)	71.5x28
Weight (g)	67
Measuring Range	1500mm
Charging Port	Type-C
Working Temperature	0°C ~ 40°C



Body Shape Management



Body Shape Analysis



Smart Healthcare Detection

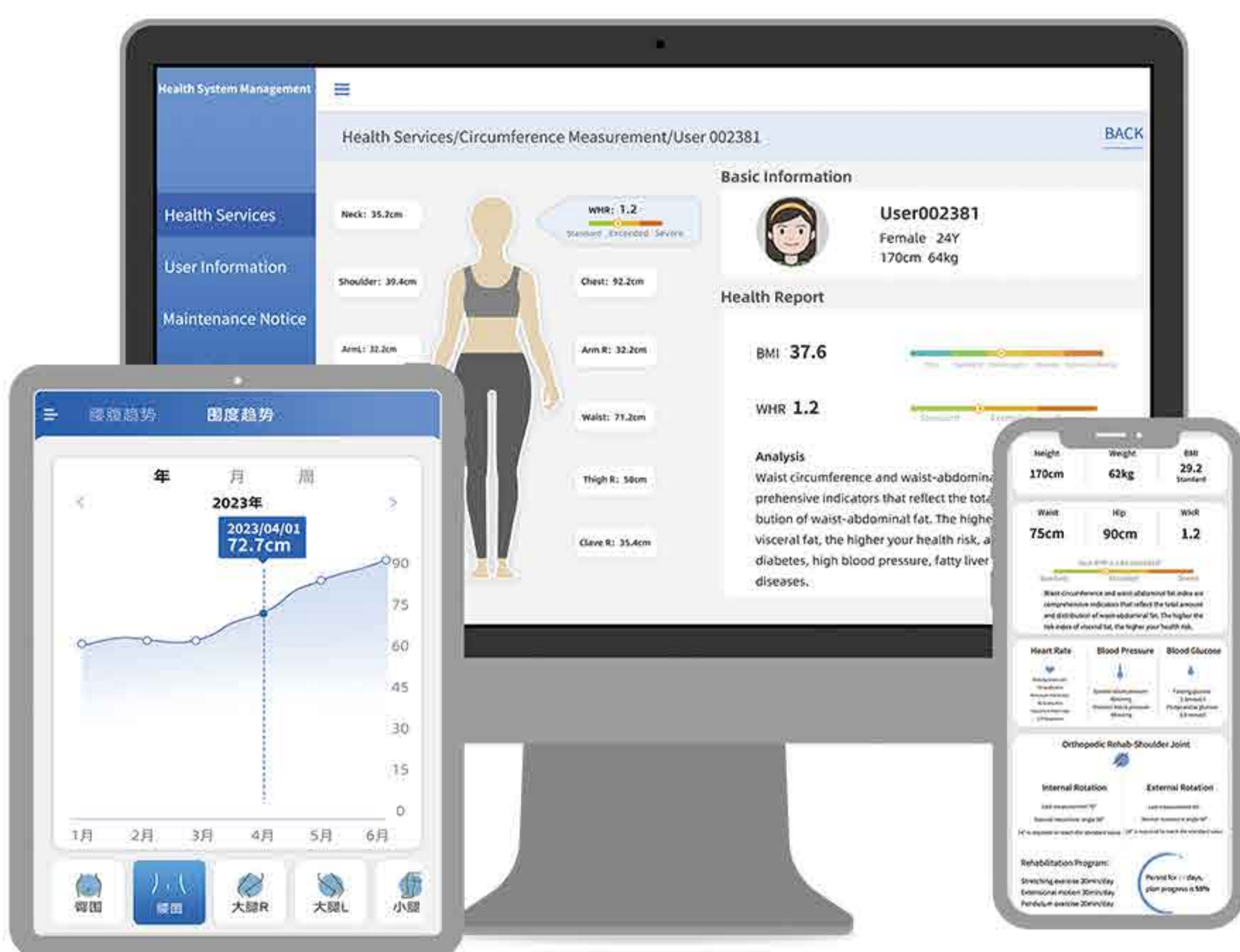


Smart Tailoring

Health Management Solution · joint Mobility Measurement

Digital Medical Goniometer

- Quickly display on the big LCD screen.
- Strong durability with the thickened ruler body.
- Flexible measurement: data reset with one button.
- Convenient to read--data hold/invert with one button.
- Easy to read with the clear scale, and the material is scratch resistant and wear-resistant.



Order Number: GR311-L

Technical Parameters

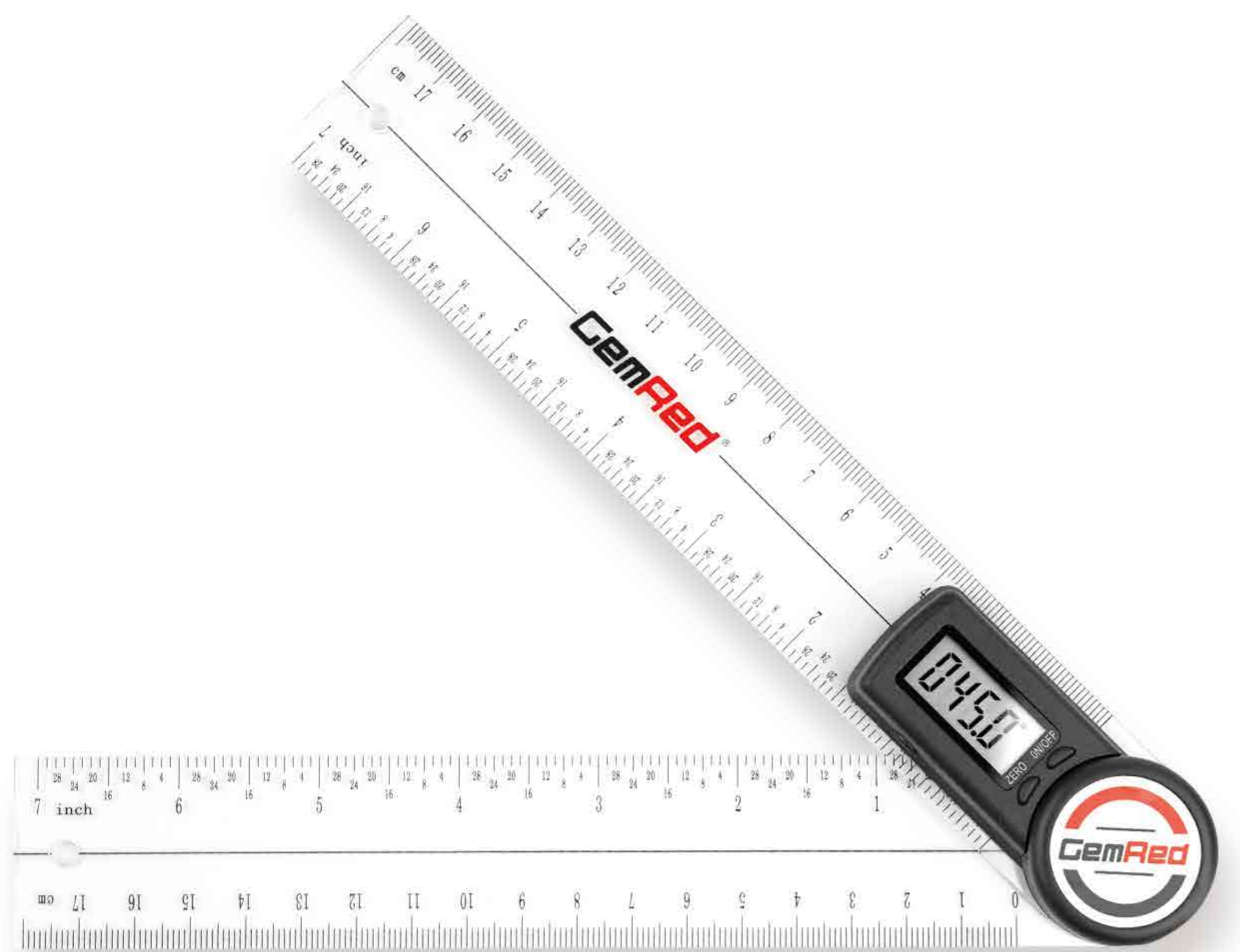
Resolution	0.1°
Accuracy	±1°
Dimension (mm)	318×128×22
Weight (g)	96
Measuring Range	0°~180°
Battery	CR2032
Working Temperature	0°C ~ 50°C



Health Management Solution · joint Mobility Measurement

Digital Medical Goniometer

- Quickly display on the big LCD screen.
- Strong durability with the thickened ruler body.
- Flexible measurement: data reset with one button.
- Convenient to read--data hold/invert with one button.
- Easy to read with the clear scale, and the material is scratch resistant and wear-resistant.



Order Number: 82311-200P

Technical Parameters

Resolution	0.1°
Accuracy	0.5°
Dimension (mm)	218×20×35
Weight (g)	58
Measuring Range	000.0°~999.9°
Battery	CR2032
Working Temperature	0°C ~ 50°C



Health Management Solution · Pet Growth Management

PetGrow-Smart Tape for Pets

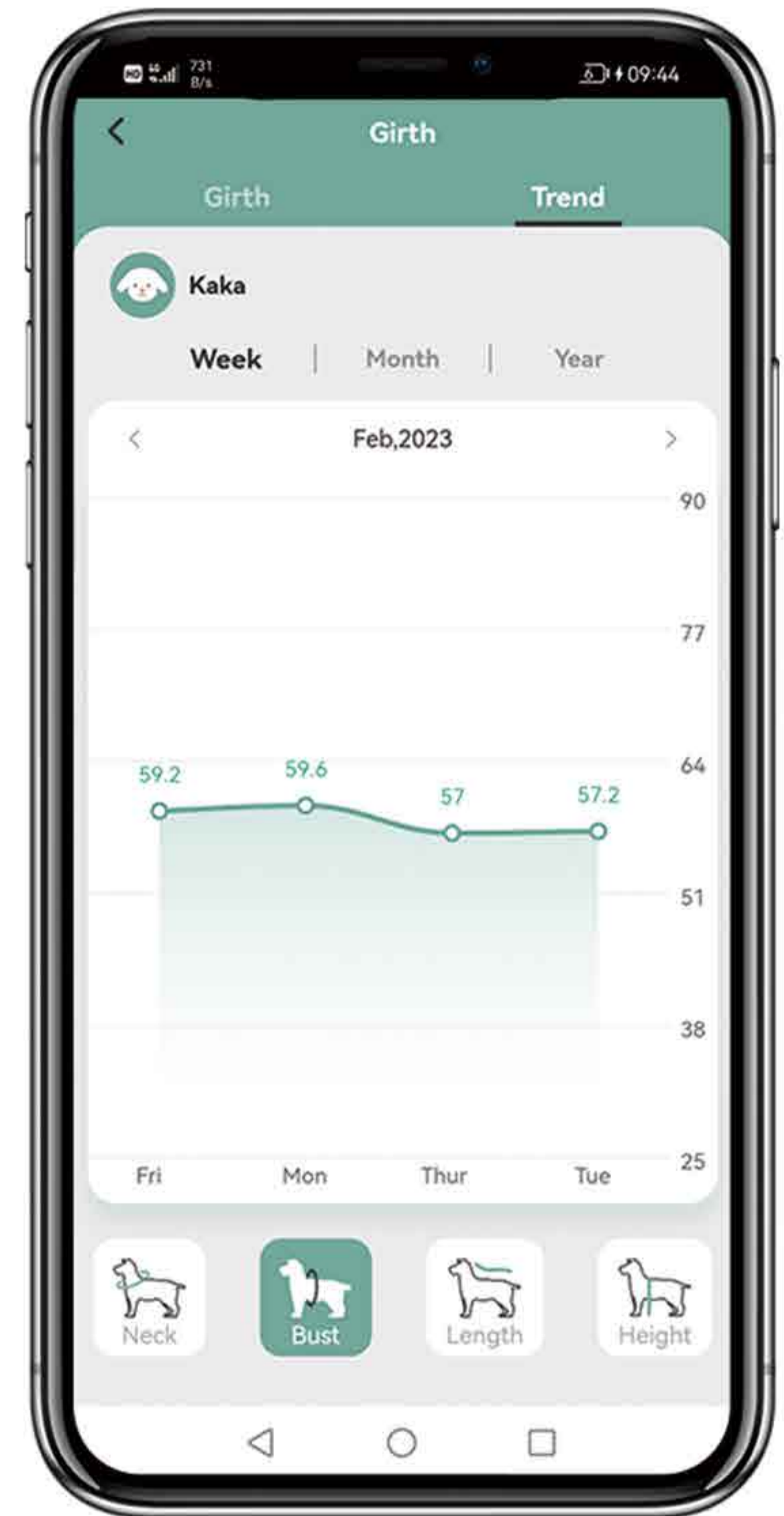
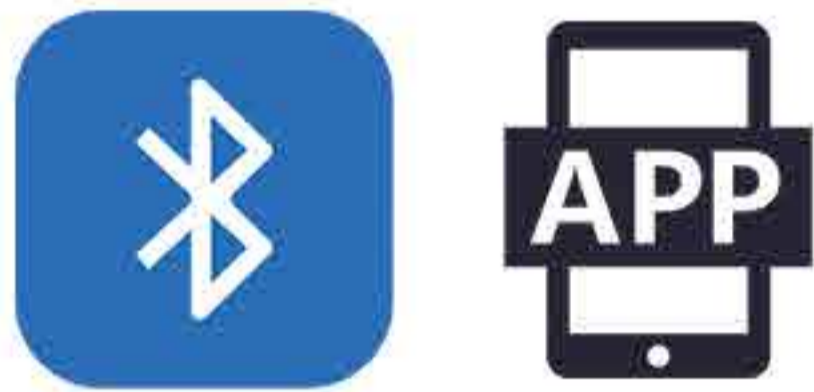
One-click measurement. Quickly record the animals' body circumference measurements.

Easy to read. Quickly display on a big LED screen.

Wireless transmission. Data sync to the APP with Bluetooth connection.

Convenient measurement. Quickly measurement with the auto-retractable tape.

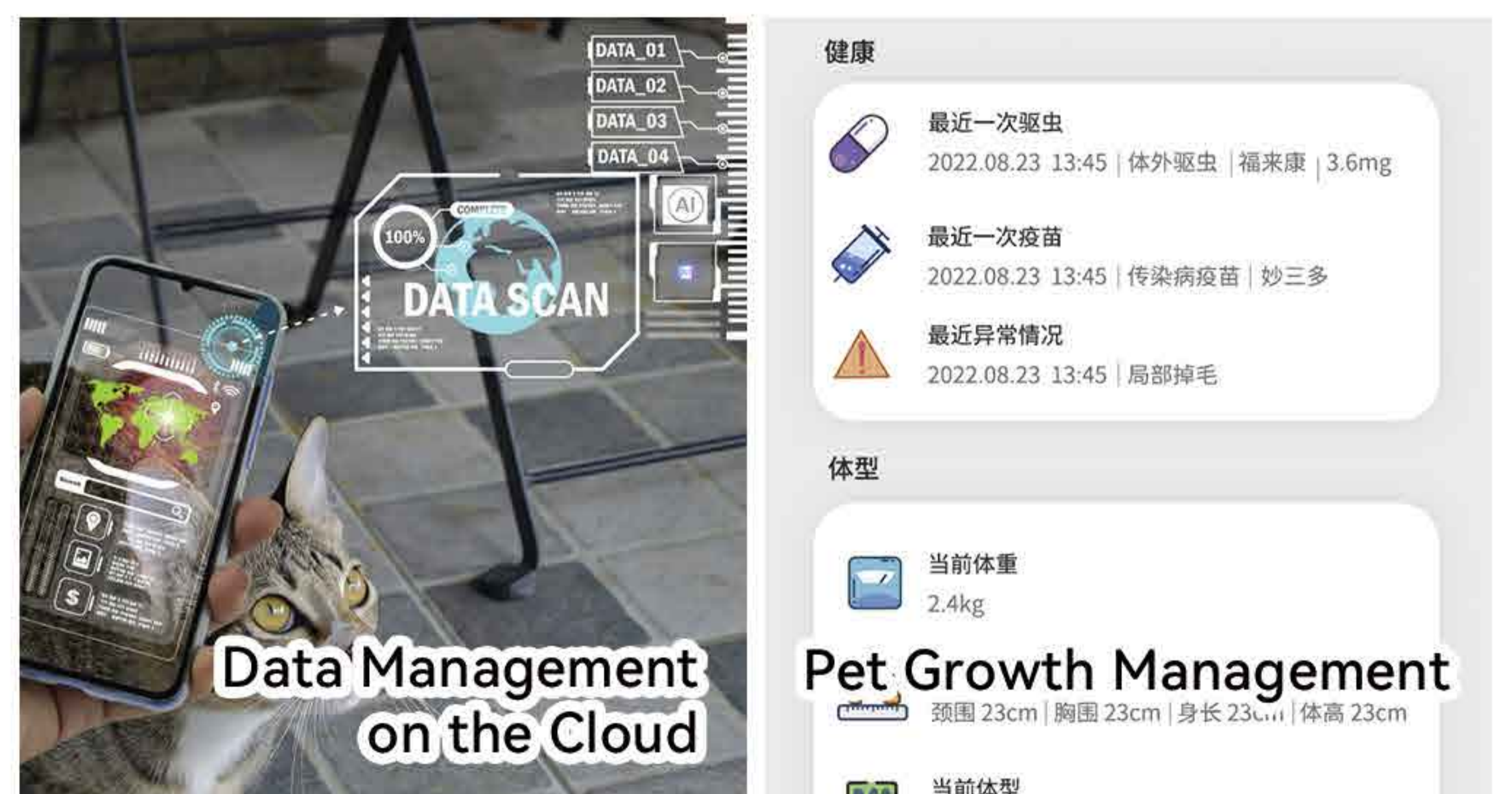
Reliable and flexible material. It is made of German craft material with high quality.



■ Order Number: PT-001

■ Technical Parameters

Resolution	0.1cm
Accuracy	2‰
Dimension (mm)	71.5x28
Weight (g)	67
Measuring Range	1500mm
Battery	150mAh
Charge Port	TYPE-C
Working Temperature	0°C ~ 40°C



Contact Us

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Email: info@gemred.com

Website: <https://www.gemredtech.com/>