

Surveying and Mapping Instruments

PRODUCTS BROCHURE



Suzhou PhenixSukaia Photoelectric Technology Co., Ltd.

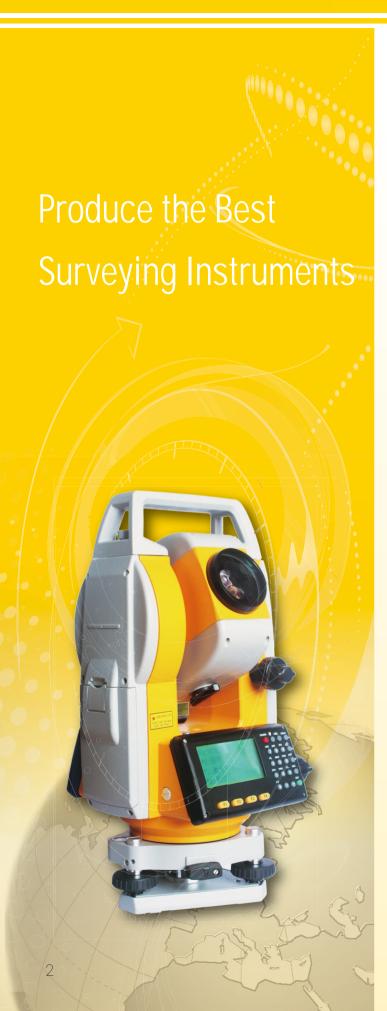
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Dealers card

Suzhou PhenixSukaia Photoelectric Technology Co., Ltd.





A Brief instruction of the Company

Suzhou Phenix Sukaia Photoelectric Technology Co., Ltd is the subsidiary company of Phenix Optical Holding Co., Ltd, Which founded in May 2011 and located in Suzhou Industrial Park that cooperated by China and Singapore, Our company adjacent to the beautiful and famous Yangcheng Lake. Our register capital amount to RMB 20.2 Million, by the name of high-tech enterprise, we have involved with instruments R&D, production and processing, sales and technical services.

Our management team and technician are mainly from previous Shanghai SOKKIA Instrument Company, Wuhan University and Phenix Optical Group. Phenix Optical Group company was founded in 1965 and firstly issued its stock among optical industry in 1997, besides, Phenix is also the largest comprehensive optical instruments enterprise in china.

Our company has possessed many independent intellectual property rights and application for 18 patents. We are obedience to the conception of profession, innovation, sincerity and services, We insisted the spirit of 'do the best surveying instruments in china'. We adopt advanced processing equipments and technology. Through strict production controlling and quality management, we have built comprehensive service system that improved the quality of products and services, In the future, we would provide the best surveying instruments and services to you.

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the instruments embody functions of measuring horizontal angle and distance. So it can apply to construction

B20

Magnification:32x / Compensator range:±15' / Compensator accuracy:0.3"/1'
Standard deviation of 1km round-trip leveling measurement:±1.0mm / With sighting device

Integrated drawtube

Adopt integrated design which not only effectivy protect objective system and improve water-proof ability, but also retain high accuracy and stable performance.

project, water conservancy project, civil engineering and some other projects.

Reliable automatic compensation

Equipped with automatic and magnetically damped compensator, high precision, large working range and returning fast, so that the instrument is free from vibration, temperature change and crash.

◆ Telescope system

High resolution and bright field of view, efficiently relieve eye strain and fatigue.0.3m (from the centre of the instrument) ultra-short distance bring bigger working range for measurement.

Infinity focus adjustment

Comfortable handle, automatic sliding design which avoid slippage phenomenon generated by vibration, transport, careless falling, crash and so on..



Superior water-proof feature

Superior water-proof feature IP66 when put the level in water for short time. Sealed and water-proof design can effectivy avoid the affection of environment, expecially for telescope system. **B30**

Magnification:28x / Compensator range:±15' / Compensator accuracy:0.5"/1'
Standard deviation of 1km round-trip leveling measurement:±1.5mm / With sighting device

◆ Integrated drawtube

Adopt integrated design which not only effectivy protect objective system and improve water-proof ability, but also retain high accuracy and stable performance.

◆ Reliable automatic compensation

Equipped with automatic and magnetically damped compensator, high precision, large working range and returning fast, so that the instrument is free from vibration, temperature change and crash.

◆ Telescope system

High resolution and bright field of view, efficiently relieve eye strain and fatigue.0.3m (from the centre of the instrument) ultra-short distance bring bigger working range for measurement.

Infinity focus adjustment

Comfortable handle, automatic sliding design which avoid slippage phenomenon generated by vibration, transport, careless falling, crash and so on..



Superior water-proof feature

Superior water-proof feature IP66 when put the level in water for short time. Sealed and water-proof design can effectivy avoid the affection of environment, expecially for telescope system.

B32

Magnification:24x / Compensator range:±15' / Compensator accuracy:0.5"/1' Standard deviation of 1km round-trip leveling measurement:±2.0mm



Superior water-proof feature

Superior water-proof feature IP66 when put the level in water for short time. Sealed and water-proof design can effectivy avoid the affection of environment, expecially for telescope system.

Integrated drawtube

Adopt integrated design which not only effectivy protect objective system and improve water-proof ability, but also retain high accuracy and stable performance.

Reliable automatic compensation

Equipped with automatic and magnetically damped compensator, high precision, large working range and returning fast, so that the instrument is free from vibration, temperature change and crash.

Telescope system

High resolution and bright field of view, efficiently relieve eye strain and fatigue.0.3m (from the centre of the instrument) ultra-short distance bring bigger working range for measurement.

Infinity focus adjustment

Comfortable handle, automatic sliding design which avoid slippage phenomenon generated by vibration, transport, careless falling, crash and so on..



B320

Magnification:24x / Compensator range:±15' / Compensator accuracy:0.5"/1' Standard deviation of 1km round-trip leveling measurement:±2.0mm

Integrated drawtube

Adopt integrated design which not only effectivy protect objective system and improve water-proof ability, but also retain high accuracy and stable performance.

◆ Reliable automatic compensation

Equipped with automatic and magnetically damped compensator, high precision, large working range and returning fast, so that the instrument is free from vibration, temperature change and crash.

Telescope system

High resolution and bright field of view, efficiently relieve eye strain and fatigue.0.3m (from the centre of the instrument) ultra-short distance bring bigger working range for measurement.

Infinity focus adjustment

Comfortable handle, automatic sliding design which avoid slippage phenomenon generated by vibration, transport, careless falling, crash and so on..



Superior water-proof feature

Superior water-proof feature IP66 when put the level in water for short time. Sealed and water-proof design can effectivy avoid the affection of environment, expecially for telescope system.

B32₁

Magnification:24x / Compensator range:±15' / Compensator accuracy:0.5"/1' Standard deviation of 1km round-trip leveling measurement:±2.0mm

Integrated drawtube

Adopt integrated design which not only effectivy protect objective system and improve water-proof ability, but also retain high accuracy and stable performance.

◆ Reliable automatic compensation

Equipped with automatic and magnetically damped compensator, high precision, large working range and returning fast, so that the instrument is free from vibration, temperature change and crash.

◆ Telescope system

High resolution and bright field of view, efficiently relieve eye strain and fatigue.0.3m (from the centre of the instrument) ultra-short distance bring bigger working range for measurement.

Infinity focus adjustment

Comfortable handle, automatic sliding design which avoid slippage phenomenon generated by vibration, transport, careless falling, crash and so on..



◆ Superior water-proof feature

Superior water-proof feature IP66 when put the level in water for short time. Sealed and water-proof design can effectivy avoid the affection of environment, expecially for telescope system.



PDL07

◆ High definition optical system with bigger range visual field

Adopt high definition optical system with imaging more clear. With 1.4m—100m visual distance that bring bigger working range for measurement.

◆ Innovative circuit design, Reasonable structure process

Adopt innovative circuit arrangement, low power, Stable and reliable; Classic shafting technology that can extend equipment service life.

◆ Reliable automatic compensation

Equipped with automatic and magnetically damped compensator, high precision, large working range and returning fast, so that the instrument is free from vibration, temperature change and crash.

◆ Built-in brand new measurement software

Adopt innovative design of software that acquire height and distance data by one key. We adopt Optimization measurement process, that making measuring so quickly and high effective.

Backlight display, Graphic user interface

Backlight Chinese language display, 7 numeric keys and combinations can complete function of getting measurement data.

◆ Standard deviation of 1km round-trip leveling measurement:0.3 —1.0mm

DT series Electronic Theodolite





DT-21/51

Magnification:30x / Accuracy:2"/5" / Base and mainbody structure:separate style Shortest veiwing distance:±1.4m / Optional:optical pointer

◆ Special design :single horizontal spindle which cross telescope

New design concept, combine higher precision, better stable specification and shock resistance ability.

♠ Absolute angle encoder system

Able to read angle data without passing "0", let angle measurement be more simpler and convenient.

Down Laser point

Able to emit laser beam which in same axis with collimation of telescope, Make the instrument easier to set up and operate.

◆ Superior water and dust proof specification IP66

Able to prevent dust and powder percolate inside, maintain good performance even in bad environment.



DT-22/52

Magnification: 30x / Accuracy: 2''/5'' / Base and mainbody structure: separate style Shortest veiwing distance: $\pm 1.4m$ / Optional: optical pointer

◆ Special design :single horizontal spindle which cross telescope

New design concept, combine higher precision, better stable specification and shock resistance ability.

◆ Absolute angle encoder system

Able to read angle data without passing "0", let angle measurement be more simpler and convenient.

Down Laser point

Able to emit laser beam which in same axis with collimation of telescope, Make the instrument easier to set up and operate.

Superior water and dust proof specification IP66

Able to prevent dust and powder percolate inside, maintain good performance even in bad environment.



DT-23/53

Magnification:30x / Accuracy:2"/5" / Base and mainbody structure:integration Shortest veiwing distance:±1.4m / Optional:optical pointer

◆ Special design :single horizontal spindle which cross telescope

New design concept, combine higher precision, better stable specification and shock resistance ability.

◆ Absolute angle encoder system

Able to read angle data without passing "0", let angle measurement be more simpler and convenient.

Down Laser point

Able to emit laser beam which in same axis with collimation of telescope, Make the instrument easier to set up and operate.

Superior water and dust proof specification IP66

Able to prevent dust and powder percolate inside, maintain good performance even in bad environment.





DT-22L/52L Magnification:30x / Accuracy:2"/5" / Base and mainbody structure:separate style Shortest veiwing distance:±1.4m / Optional:optical pointer

◆ Special design :single horizontal spindle which cross

New design concept, combine higher precision, better stable specification and shock resistance ability.

◆ Absolute angle encoder system

Able to read angle data without passing "0", let angle measurement be more simpler and convenient.

Up Laser point

Laser focusing point:5mm/100m; Valid optical distance: ≥200m(Day) Deviation, between laser focusing point and telescope collimation axis:≤5

Down Laser point

Able to emit laser beam which in same axis with collimation of telescope, Make the instrument easier to set up and operate.

Superior water and dust proof specification IP66

Able to prevent dust and powder percolate inside, maintain good performance even in bad environment.



DT-23L/53L Magnification:30x / Accuracy:2"/5" / Base and mainbody structure:integration Shortest veiwing distance:±1.4m / Optional:optical pointer

◆ Special design :single horizontal spindle which cross telescope

New design concept, combine higher precision, better stable specification and shock resistance ability.

◆ Absolute angle encoder system

Able to read angle data without passing "0", let angle measurement be more simpler and convenient.

Up Laser point

Laser focusing point:5mm/100m; Valid optical distance: ≥200m(Day) Deviation between laser focusing point and telescope collimation axis:≤5"

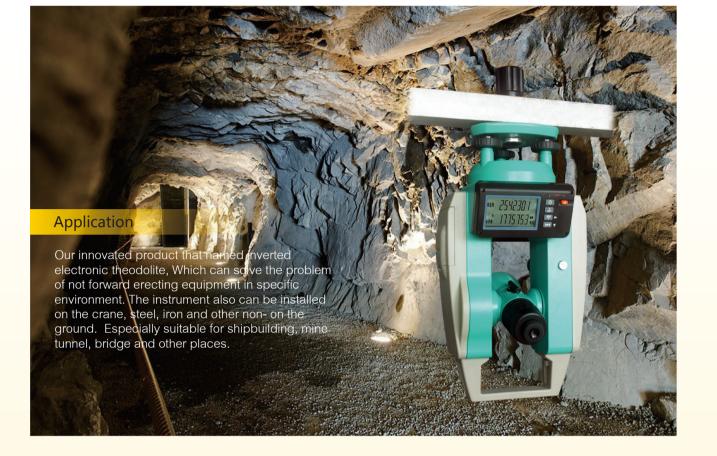
Down Laser point

Able to emit laser beam which in same axis with collimation of telescope, Make the instrument easier to set up and operate.

Superior water and dust proof specification IP66

Able to prevent dust and powder percolate inside, maintain good performance even in bad environment.





DT-23D

Magnification:30x / Accuracy:2"/5" / Base and mainbody structure:integration Shortest veiwing distance:±1.4m

◆ Special design :single horizontal spindle which cross telescope

New design concept, combine higher precision, better stable specification and shock resistance ability.

♦ Absolute angle encoder system

Able to read angle data without passing "0", let angle measurement be more simpler and convenient.

Down Laser point

Able to emit laser beam which in same axis with collimation of telescope, Make the instrument easier to set up and operate.

Superior water and dust proof specification IP66

Able to prevent dust and powder percolate inside, maintain good performance even in bad environment.





PTS-210/510

Optional:optical pointer

◆ Special design with single horizontal spindle cross telescope

New design concept, which combine with high precision, stability and shock resistance ability.

◆ High precision for distance and angle measurement system

High precision for angle measurement, which guarantee to get accurate data. Professional absolute encode system, without initialization when you shut down or open instrument.

◆ Superior telescope system with high definition

Telescope system with high definition and brightness, which effectivy to alleviate eye fatigue. More visual range and high definition.

◆ Laser centre point, convenient to working

Instrument operate simple and convenient, which adopt to working different environment.

Water-proof IP55

Superior water and dust proof specification IP55.

Ultra-short measurement time

As containing new design concepts, the measurement time of all models (Reflector, standard single prism)

Good distance measuring accuracy

Standard single prism: measuring distance is 2000m, accuracy is "±(2mm+2ppm*D)".

Powerful software features

Build-in large capacity internal storage and kinds of measuring program, convenient and stable.



PTS-210R/510R

Optional:optical pointer

◆ Special design with single horizontal spindle cross telescope

New design concept, which combine with high precision, stability and shock resistance ability.

High precision for distance and angle measurement system.

High precision for angle measurement, which guarantee to get accurate data. Professional absolute encode system, without initialization when you shut down or open instrument.

Superior telescope system with high definition

Telescope system with high definition and brightness, which effectivy to alleviate eye fatigue. More visual range and high definition.

Laser centre point, convenient to working

Instrument operate simple and convenient, which adopt to working different environment.

Ultra-short measurement time

As containing new design concepts, the measurement time of all models (Reflector, standard single prism)

Good distance measuring accuracy

Reflector: measuring distance is 800m,accuracy is "±(5mm+2ppm*D)". Standard single prism: measuring distance is 2500m,accuracy is "±(2mm+2ppm*D)". Without prism: measuring distance is 300m,accuracy is "±(5mm+2ppm*D)".

Powerful software features

Build-in large capacity internal storage and kinds of measuring program, convenient and stable.





PLV-1B

◆ High definition optical system with bigger range visual field

Adapt high definition optical system with imaging more clear. With 0.4M ultra-short visual distance that bring bigger working range for measurement.

♦ Innovation of plummet technology, horizontal and vertical spindle concentric

We have improved internal structure and optics road, which make the up and down laser point totally coaxial.

◆ Advanced spindle system technology with reliable and stable testing

Advanced spindle processing technology, which combine with high precision, stability and shock resistance ability.

Humanized design of potentiometer knob

Combined with the design of brightness adjustable and double power switch, which meets the custom of instrument operator.

Infinity focus adjusting knob

Orginal infinity focus adjusting design, not only able to avoid slippage phenomenon, but also could extend service life of knob.

◆ Laser point function

Able to actualize laser point function by putting handle and instrument body at levelling way.

Water-proof feature

Professional water-proof design completely prevented by damp,water-proof degree is IP55.

Other specificatione

Standard deviation of up vertical view:1/45000;Laser effective range: \geq 120m(day)/ \geq 250m(night);light power:5mw;

Attachments









Base

Base Connector

Laser Target

Zenith ocular

Tropid





PFA-2 Theodolite Tripod

PFA-1 Theodolite Tripod

PFB-1 Levels Tripod

PFW-1 PFD-1
Total Station Tripod Centre Pole Tripod

Factory scene



