

# SPECIFICATION

Arc 5<sup>lite</sup>

Arc 5

<b>TELESCOPE</b>	
Length	154mm
Objective Lens Diameter	Telescope: 45mm Distance Meter: 50mm
Magnification	30X
Image	Erect
Field of View	1°30'
Resolving Power	3"
Mini. Focus	1.0m
<b>DISTANCE MEASUREMENT</b>	
Single Prism	5000m <sup>*1</sup>
Non-Prism	N/A 600m <sup>*2</sup>
Accuracy -Prism Mode	±(2mm+2ppm x D)m.s.e. <sup>*3</sup>
-Non-Prism Mode	N/A 0-300m:±(3mm+2ppm x D)m.s.e. <sup>*3</sup> 300-600m: ±(5mm+3ppm x D)m.s.e. <sup>*3</sup>
Measuring Time	Fine: 1.0s, Tracking: 0.5s <sup>*4</sup>
Meteorologic Correction	Manual Input, Auto Correction
Prism Constant	Manual Input, Auto Correction
<b>ANGLE MEASUREMENT</b>	
Method	Absolute Encoding
Detecting System	H: 2 sides, V: 2 sides
Min. Reading	0.5"/1"/5"/10"
Accuracy	2"
Diameter of Circle	79mm
Vertical Angle 0°	Zenith 0°/Horizontal: 0°
Unit	360°/400gon/6400mil
<b>DISPLAY</b>	
Size	66mm X 42mm;240*160 Dot Matrix
No.of Display	2
Keyboard	Alphanumeric Key
<b>TILT CORRECTION</b>	
Tilt Sensor	Dual Axis
Method	Liquid Electric
Range	±3'
Setting unit	1"
<b>LEVEL SENSITIVITY</b>	
Plate Level	30"/2mm
Circular Level	8"/2mm
<b>OPTICAL PLUMMET (OPTIONAL: INTERNAL LASER PLUMMET)</b>	
Image	Erect
Magnification	3X
Focusing Range	0.3m ~ ∞
Field of View	5°
<b>DATA STORAGE &amp; INTERFACE</b>	
Storage	Internal Memory: 4MB; Max. SD card: 32GB
Data Interface	SD-card/RS232C
<b>GENERAL</b>	
Laser Class <sup>*5</sup> -EDM	Class IIIA
-Laser Plummet	Class II
Working Temperature	-20°C to +50°C
Battery Type	Rechargeable Lithium Battery
Battery Voltage	DC 7.4V
Working Time	8h
Water & Dust Proof	IP65

\*1. Good condition: No haze, visibility about 40km, overcast, no scintillation.  
 \*2. With Kodak Grey Card white side (90% reflectivity).  
 \*3. D stands for distance.  
 \*4. Typically, under good condition, non-prism measuring time may differ according to measuring target, observation situations, and environmental conditions.  
 \*5. According to FDA21 CFR Ch.1 §.1040.

## STANDARD PACKAGE COMPONENTS

- |                    |                      |
|--------------------|----------------------|
| Carrying Case X 1  | Screw Driver X 1     |
| Charger X 1        | Wiping Cloth X 1     |
| Battery X 2        | Lens Cover X 1       |
| Rain Cover X 1     | SD-Card X 1          |
| Mini USB Cable X 1 | Multi-port Cable X 1 |
| Carrying Belt X 2  | User Manual X 1      |
| Plumb X 1          | Warranty Card X 1    |
| Adjusting Pin X 1  | Reflecting Sheet X 1 |

## OPTIONAL ACCESSORIES



# TOTAL STATION Arc 5 Series

**SANDING**  
EVERY POINT MATTERS



Dealer Info

**SANDING**  
EVERY POINT MATTERS

**SANDING OPTIC-ELECTRICS INSTRUMENT CO.,LTD**  
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 Tel: +86-20-23380888 Fax: +86-20-23380800  
 E-mail:export@sandinginstrument.com  
 http://www.sandinginstrument.com



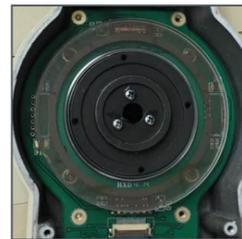
## DISTANCE MEASUREMENT

600m reflectorless measuring range covers a most common scale in your field job. With a single prism, you can reach up to 5km quickly with 2mm+2ppm accuracy.



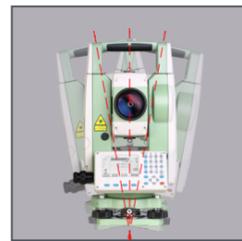
## ANGLE MEASUREMENT

Arc 5 adopts an absolute encoding system, which does not require initialization by 0 set, and delivers a precise and stable angle measurement with up to 2" accuracy.



## TILT COMPENSATOR

The dual-axis tilt compensator monitors the inclination of both X and Y axes, and then correct the horizontal and vertical angle reading automatically.



## DISPLAY & KEYS

A high definition graphic display with 8 lines and 2 sides of alphanumeric keyboards provides clear images and convenient operation.



## DATA EXCHANGE

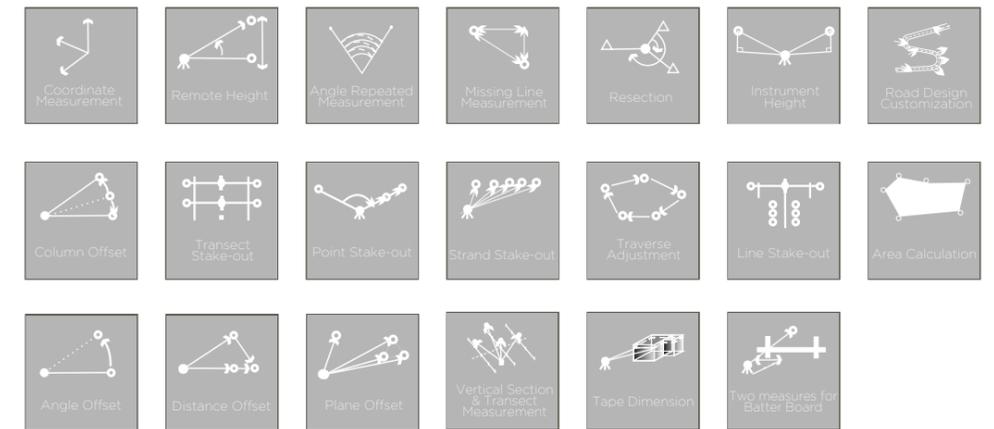
Arc 5 provides various options for data transfer such as SD card and RS232 serial port.



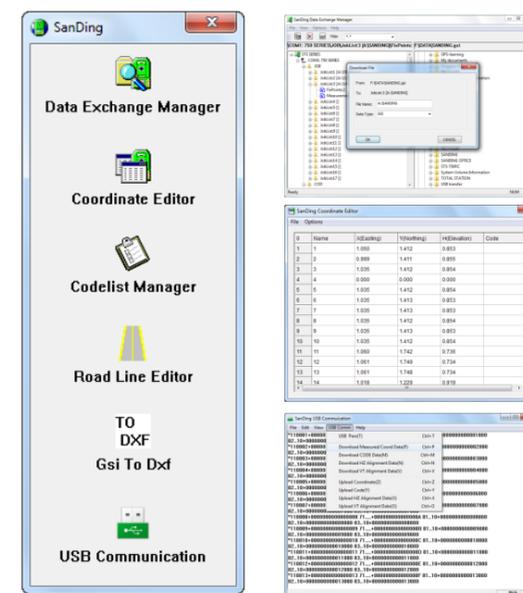
## ON-BOARD SOFTWARE & APPLICATIONS

Arc 5 series is powered by a sophisticated on-board software which enables you to manipulate the total station effectively, like setting the compensation, COGO, data viewing and transfer, calibration, etc.

What's more, the on-board software also provides various essential applications on daily surveying job as below.



## SOFTWARE: SANDING PC TOOL



Powerful and convenient data transfer and post-processing software with concise and clear interface and user-friendly operation. User can download and upload raw data or coordinates in GSI format, edit coordinates and codes, design and edit road data, transfer GSI data to DXF file for processing in CAD, etc.