

**SANDING**

TOTAL STATION

**Arc 6**





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.



Arc 6 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.



The dual-axis tilt compensator monitors the inclination of both X and Y axes, and then correct the horizontal and vertical angle reading automatically with a scale of 3'.



3.5" high definition color screen and 2 sides of alphanumeric keyboards provides clear images and convenient operation even under strong sunlight.



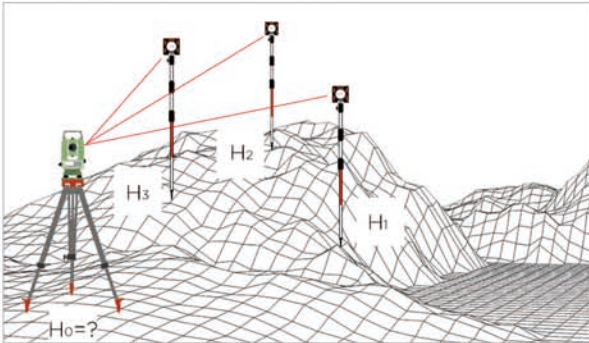
Arc 6 provides various options for data transfer such as SD card, USB and RS232 serial port.



T-P Sensors allows user to detect the surrounding temperature and air pressure hence correct the atmospheric error for distance measurement.

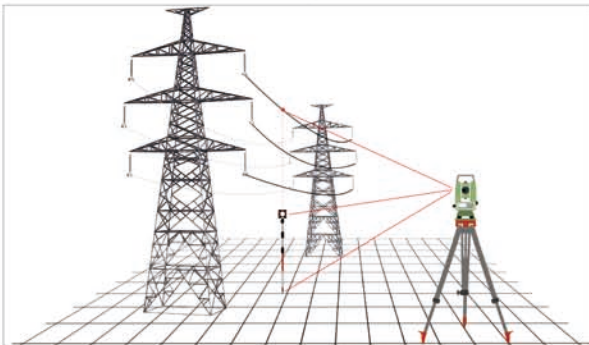
# PROGRAMS

## Height Transfer



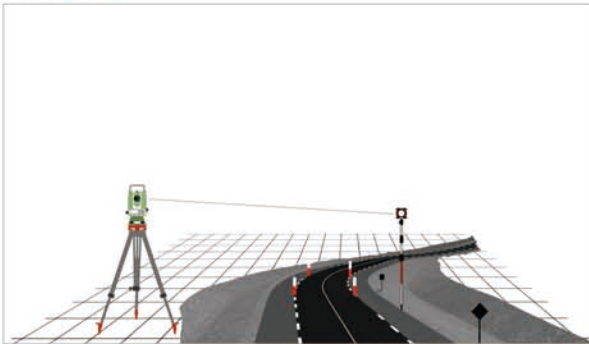
This function determines the height of the instrument from measurements to a maximum of 5 target points, with known height, in two faces. For instance, in the field, we can measure the elevation of the station point on condition that we lost the elevation due to some man-made destroy.

## Remote Height



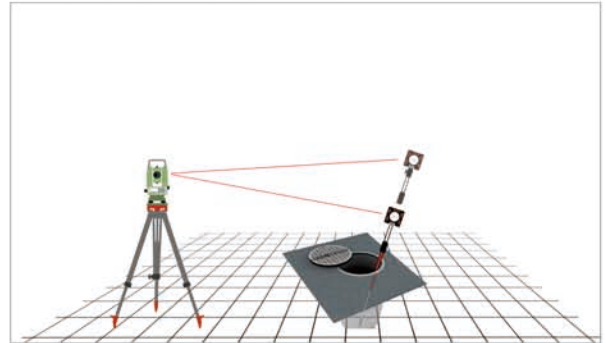
It lets you measure inaccessible high points. Place a reflector anywhere below the height you want to measure, enter the reflector height, target it, measure the distance, and then target the high point. The total station calculates the height difference between the ground and high points.

## Road



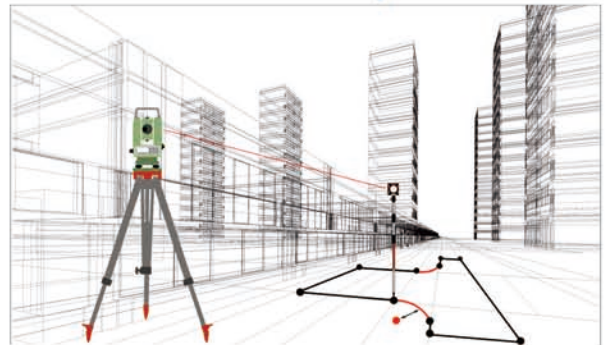
This program allows you easily to define a line or curve or spiral as a reference for measurements and stake outs. It supports chainages, as well as incremental stake out and offsets, greatly simplifying road construction in field.

## Hidden Point



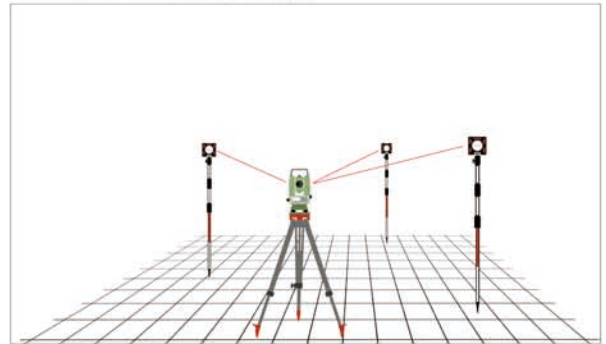
This function allows measurements to the points that is not directly visible, using the special hidden-point rod, for instance, the bottom of a well. Users can acquire the coordinate by taking measurements to the two prisms with a known distance between them and the distance to the bottom of the well.

## Reference Line/Arc



This program facilitates the easy stake out or checking the lines for buildings, sections of road, simple excavations, etc. A reference line can be defined by referencing a known base line. The reference line can be offset either longitudinally, in parallel or vertically to the base line, or be rotated around the first base point as required.

## Free Station



This application is used to determine the instrument position from measurements to a minimum of two known points and a maximum of five known points, which is widely used in detailed surveying.



# SPECIFICATION

Arc 6

TELESCOPE	
Length	154mm
Objective Lens Diameter	Telescope: 45mm EDM: 50mm
Magnification	30X
Image	Erect
Field of View	1°30'
Resolving Power	3"
Mini. Focus	1.0m
DISTANCE MEASUREMENT	
Single Prism	5000m <sup>*1</sup>
Non-Prism	600m <sup>*2</sup>
Accuracy	±(2mm+2ppm x D)m.s.e. <sup>*3</sup>
	0-300m:±(3mm+2ppm x D)m.s.e. <sup>*3</sup>
	300m-600m: ±(5mm+3ppm x D)m.s.e. <sup>*3</sup>
Measuring Time	Fine: 0.3s, Tracking: 0.1s <sup>*4</sup>
Atmospheric Correction	T-P Sensor, Auto Detect and Correct
Prism Constant	Manual Input, Auto Correction
ANGLE MEASUREMENT	
Method	Absolute Encoding
Detecting System	H: 2 sides, V: 2 sides
Min. Reading	0.5", 1", 5", 10" selectable
Accuracy	2"
Diameter of Circle	79mm
Vertical Angle 0°	Zenith 0°/Horizontal: 0°
Unit	360°/400gon/6400mil
DISPLAY	
Size	3.5", 320*240 Dot Matrix
No. of Display	2 Color Screens
Keyboard	Alphanumeric
TILT CORRECTION	
Tilt Sensor	Dual Axis
Method	Liquid Electric
Range	±3'
Setting unit	1"
LEVEL SENSITIVITY	
Plate Level	30"/2mm
Circular Level	8'/2mm
OPTICAL PLUMMET (OPTIONAL: INTERNAL LASER PLUMMET)	
Image	Erect
Magnification	3X
Focusing Range	0.3m ~ ∞
Field of View	5°
DATA STORAGE & INTERFACE	
Storage	Internal Memory: 4MB; SD card: max.32GB
Data Interface	RS232C/SD card/Mini USB
GENERAL	
Laser Class <sup>*5</sup> -EDM	Class IIIA
-Laser Plummet	Class II
Working Temperature	-20°C ~ +50°C
Battery Type	Rechargeable Lithium Battery
Battery Voltage	DC 7.4V
Working Time	8h
Water & Dust Proof	IP55

\*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  
Charger X 1  
Battery X 2  
Rain Cover X 1  
Mini USB Cable X 1  
Software CD X 1  
Carrying Belt X 2  
Plumb X 1  
Adjusting Pin X 1

Screw Driver X 1  
Wiping Cloth X 1  
Lens Cover X 1  
SD-Card X 1  
Multi-port Cable X 1  
User Manual X 1  
Warranty Card X 1  
Reflecting Sheet X 1

## OPTIONAL ACCESSORIES



TPS26  
Single Prism System



TK21SET  
Prism Set



ATS-1  
Aluminum Tripod

ATS-L  
Wooden Tripod

TPS106  
Prism Pole  
& Prism System



Dealer Info

**SANDING**

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