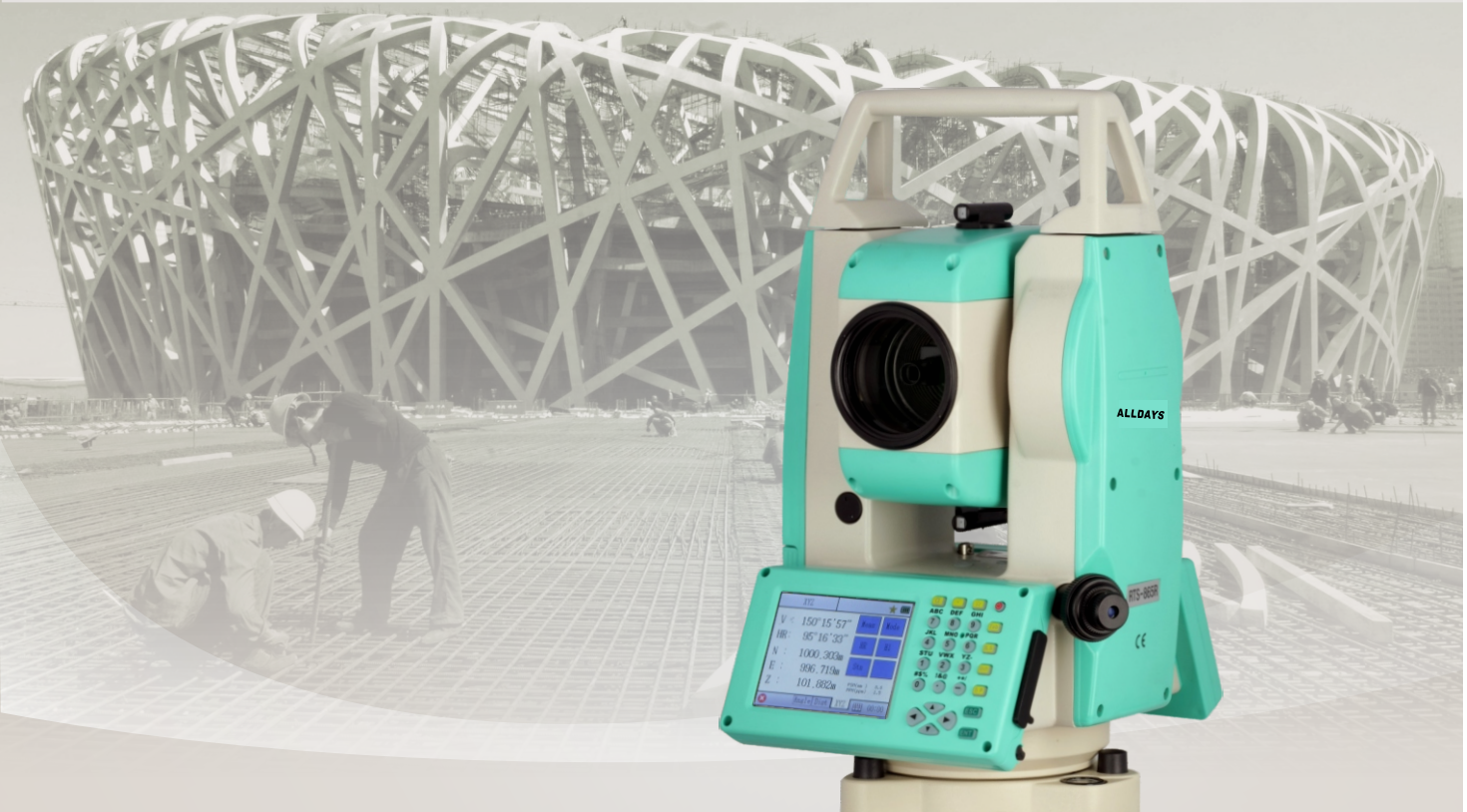


TOTAL STATION

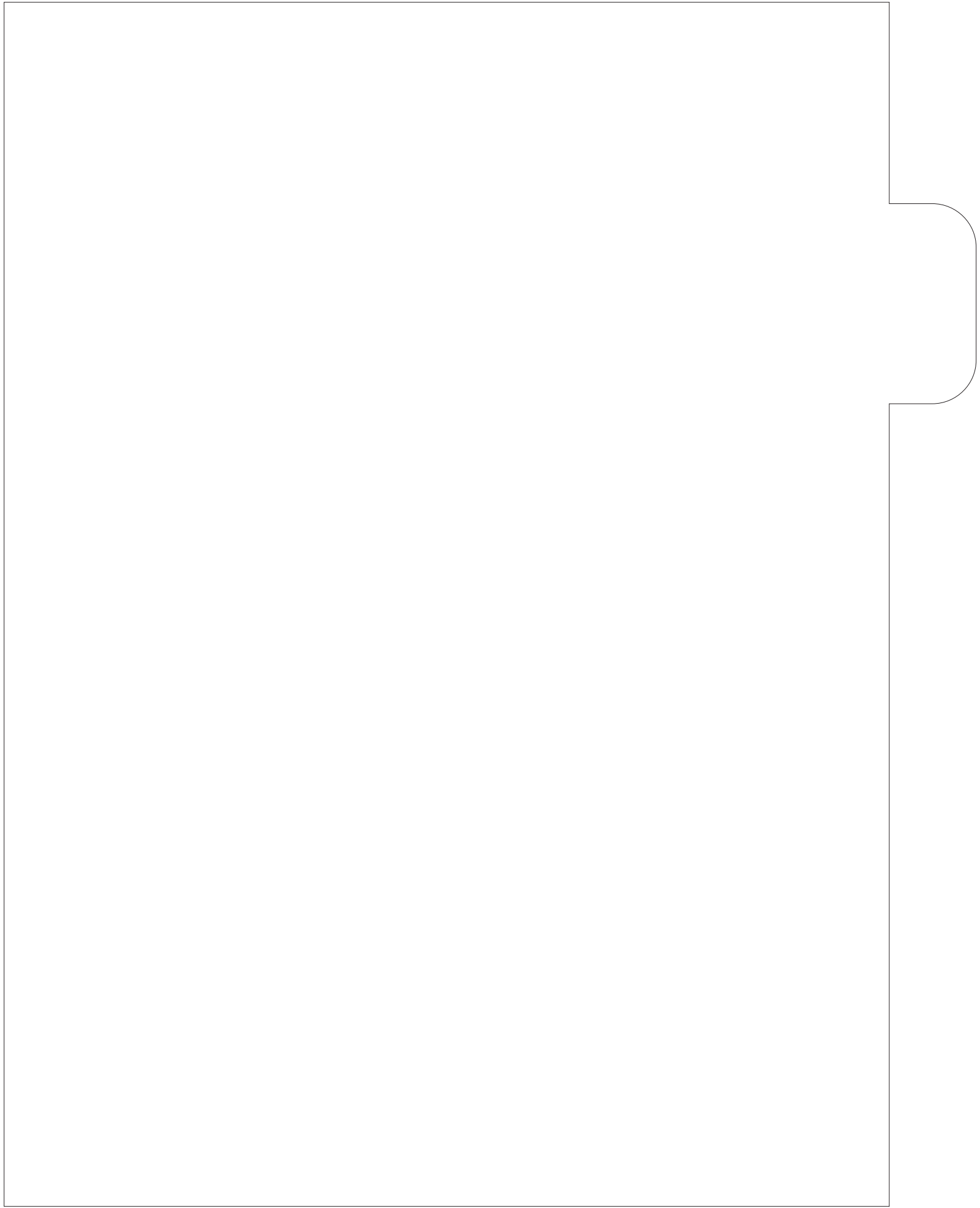
AL- 200 SERIES AL212RCW



total station



- 3.0" color and touch dual screens
- User-friendly operation interface
- 2"/5" angle accuracy
- 350m reflectorless range
- Dual axis compensator
- Temperature & pressure sensor
- Bluetooth®
- SD card, USB, mini-USB interfaces



Specifications



total station

model	AL-212RCW
TELESCOPE	
image	erect
magnification	30x
effective aperture	45mm (distance meter: 50mm)
resolving power	3"
field of view	1°30'
minimum focus	1.0m
telescope length	152mm
ANGLE MEASUREMENT	
measuring method	absolute encoding
diameter of disk	79mm
minimum reading	1" / 5"
detection method	horizontal: dual vertical: dual
unit	360
vertical angle 0°	360°/400gon/6400mil
accuracy	2" / 5"
DISTANCE MEASUREMENT	
single prism	5km
triple prism	7km
reflecting sheet	800m
reflectorless	350m
unit	m/ft
accuracy	±(2+2x10 ⁻⁶ ·d)mm
measuring time (initial)	single fine measure: 0.7s; tracking: 0.7s
measuring system	basic frequency: 80mhz
wave length	685nm
atmospheric correction	auto sensing
atmospheric refraction & earth curvation correction	auto correction. k=0.14/0.20
reflector constant correction	auto correction
VIAL	
circular vial	8'/2mm
plate vial	30"/2mm
COMPENSATOR	
system	dual axis photoelectric detection
compensating range	+4'
resolving power	1"
OPTICAL PLUMMET (OR INTERNAL LASER PLUMMET)	
image	erect
magnification	3x
focusing range	0.3m ~∞
field of view	5°
DISPLAY	
type	3.0" LCD graphics, color and touch
INPUT MODE	
type	touch screen; alphanumeric keys
DATA TRANSFER	
serial port	yes
USB & mini-USB	yes
Bluetooth	yes
STORAGE	
internal memory	>10000 points or > 20000 coordinates
SD card	2G SD card as default
BATTERY	
battery	Ni-H rechargeable
voltage	6v (dc)
operating time	up to 12 hours
OPERATION ENVIRONMENT	
operation temperature	-20°C ~ +50°C
water and dust proof	IP66
SIZE & WEIGHT	
size	160mm x 150mm x 340mm
weight	5.4kg

Technological Superiority



SD Card / USB / mini-USB



Connect with PDA via Bluetooth

Coordinates | Meas Mode

V : 132° 43' 51" R. Ht TrnH

HR: 357° 54' 16" Stn

N : 9316.526m PSM(mm) 0.0

E : 42763.944m PPM(ppm) 0.0

Z : 801.653m

Angle Dist XYZ 10:30

Routine Measurement

Graph | Area Res1 Grap 10:07

COGO: Area Calculation

Graph | Data Grap 10:44

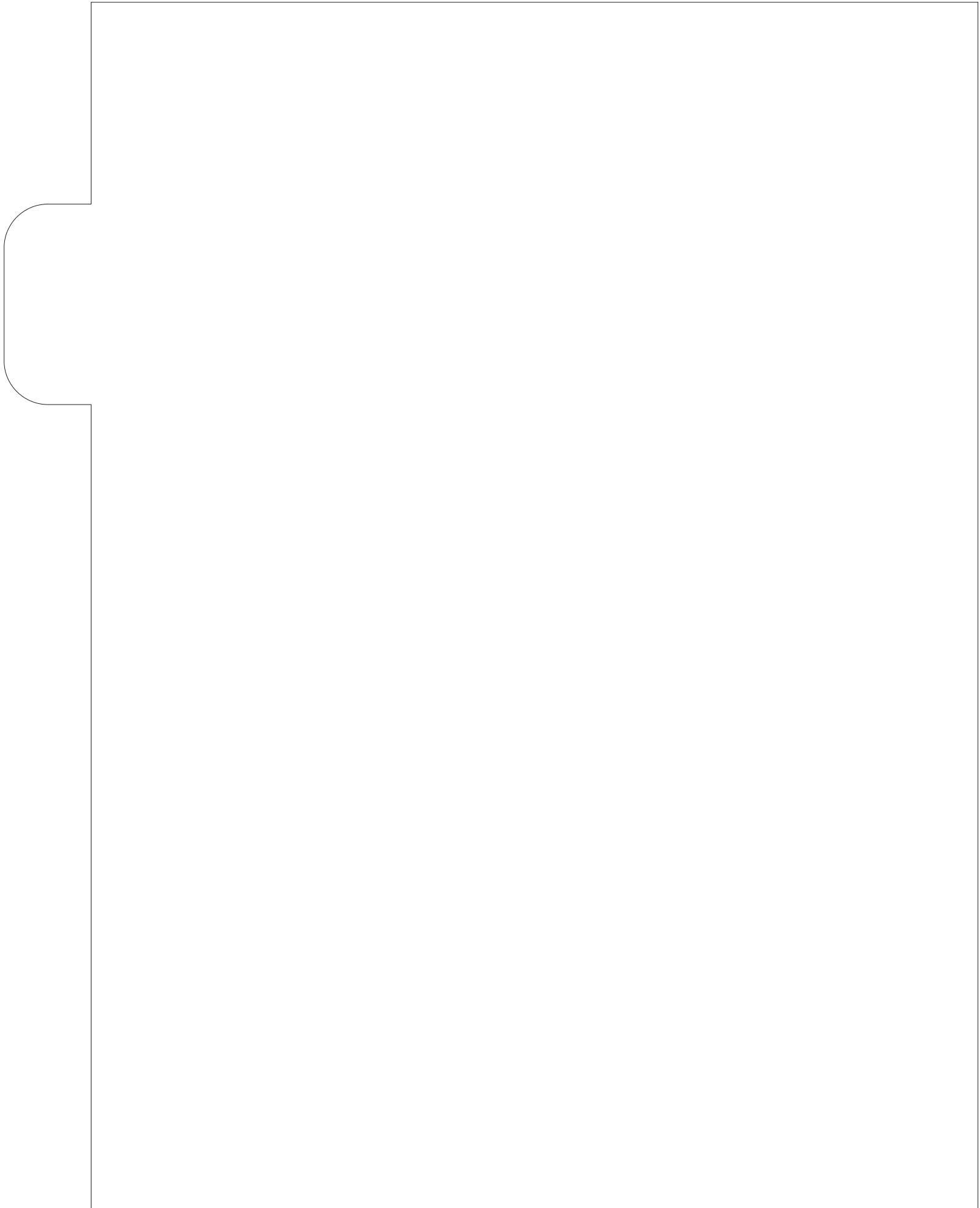
Road Design

Compensator | 0Set 10:28

X 0.0317 dms

Y 0.0028 dms

E-Bubble



TOTAL STATION


AL-215/AL-212/AL-212R/AL-212RC



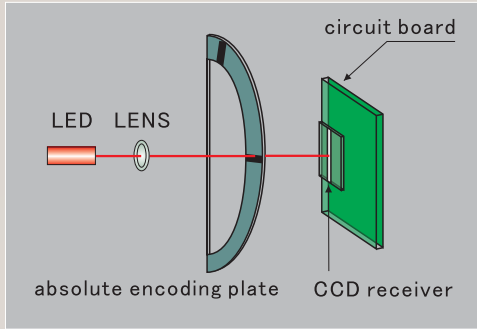
SD/USB Data Transfer



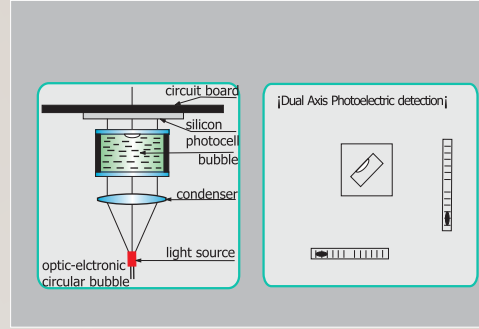
Extend your memory with a SD card.
Download data via USB interface.

- Reflectorless distance range:350m
- Temperature & pressure sensor
- Dual-axis compensation
-  card supportable

NEW FEATURES



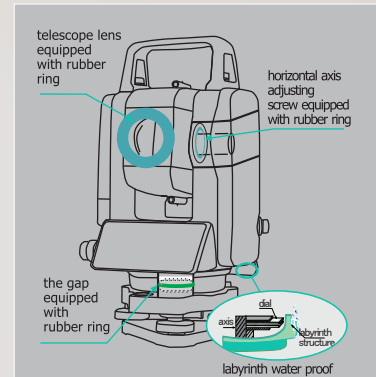
Absolute Encoding
manual initialization free, angle measurement accuracy and reliability improved.



Dual Axis Compensation

Specifications

	AL-212/AL-215	AL-212R/AL-212RC
Measuring Range		
Single Prism	2.0 km	5.0 km
Non-Prism	---	350 m
Distance Measurement Accuracy	±(2+2PPM)	
Digital Display	Max:99999999.999 Min:1mm	
Measuring Time	Fine:1.2s, normal:0.7s, tracking:0.4s	Fine:0.7s, normal: 0.7s, tracking:0.3s
Measurement System	Basic frequency:60MHZ	
Meteorologic Correction	Input the parameter adjusted automatically	
Atmospheric Refraction and Earth Curvature Correction	Input the parameter adjusted automatically (k=0.14/0.2)	
Prism Constant	Input the parameter adjusted automatically	
Temperature and Air pressure Correction	Manual input	Automatical
Angle Measurement		
Measuring Method	Absolute encoding	
Raster Disk Diameter	79mm	
Min. Reading	1"/5" optional	
Accuracy	2'/5" optional	
Detection Method	Horizontal : Dual Vertical : Dual	
Measuring Unit	360° /400 gon/6400mil Selectable	
Vertical Angle 0 _i	Zenith 0° / Horizontal 0° Selectable	
Telescope		
Image	Erect	
Length	154mm	
Effective Aperture	Telescope£45mm Distance meter£50mm	
Magnification	30X	
Field of View	1°30'	
Resolving Power	3'	
Min. Focussing Distance	1m	
Auto Vertical Compensator		
System Liquid electric detection	Vertical axis	Dual axis
Range	±3'	±4'
Accuracy	1"	
Level Sensitivity		
Plate Vial	30"/20mm	
Circular Vial	8'/2mm	
Optical Plummet		
Image	Erect	
Magnification	3X	
Focusing Range	0.3m~∞	
Field of View	5°	
Other		
Mini B Port	NO	YES
SD card	NO	YES
Internal memory	>10,000 points>20,000 coordinates	
Display Type	Dual sides, alphanumeric keyboard,LCD, Matrix graphic	
Operation Environment	-20°C~ +50°C	
Power Supply	Rechargeable Ni-H battery	
Voltage	DC 6v	
Non-stop Operating Time(angle and distance)	8 hours	16 hours



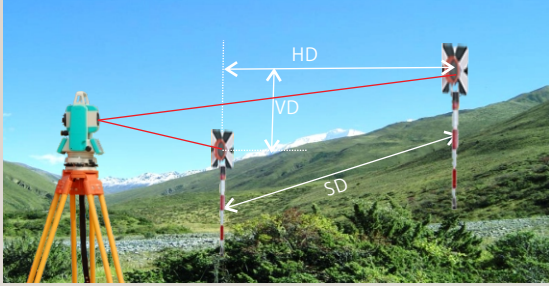
Overall Water & Dust Proof
All significant parts are protected by tight rubber rings.



Sensor of Temperature & Pressure
Take the surrounding temperature and pressure automatically and implement the auto compensation of PPM. Higer accuracy is what we are after.

AL-215/AL-212/AL-212R/AL212RC/AL-212RCW Abundant Surveying Programs

Remote Distance Measurement



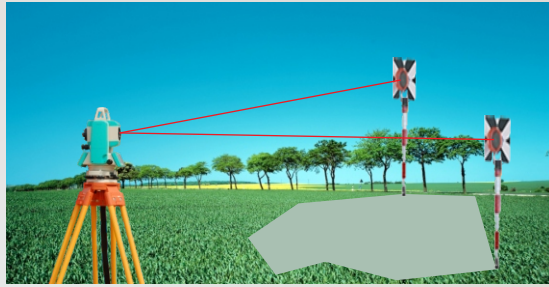
Multiple-Point Resection



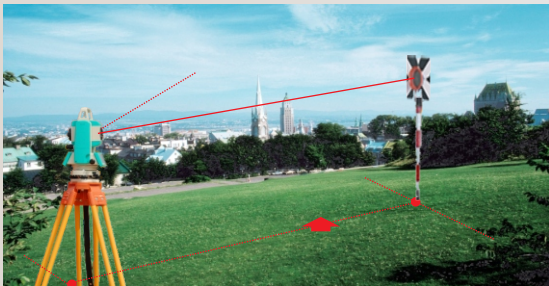
Remote Elevation Measurement



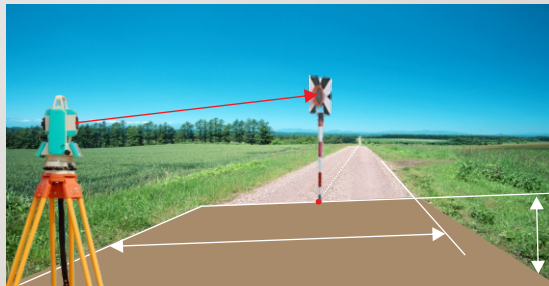
Area(Plan) and Circumference Calculation



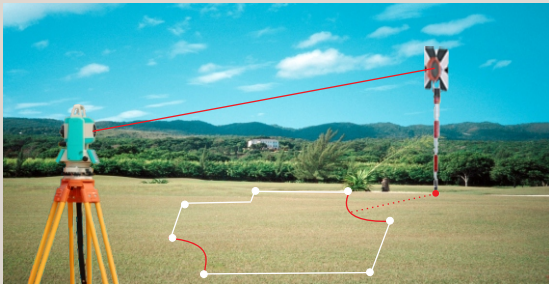
Stake-Out



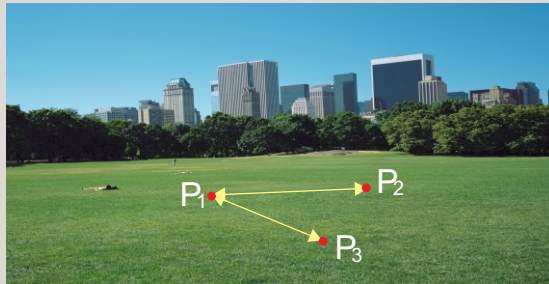
Road Design And Stake-Out



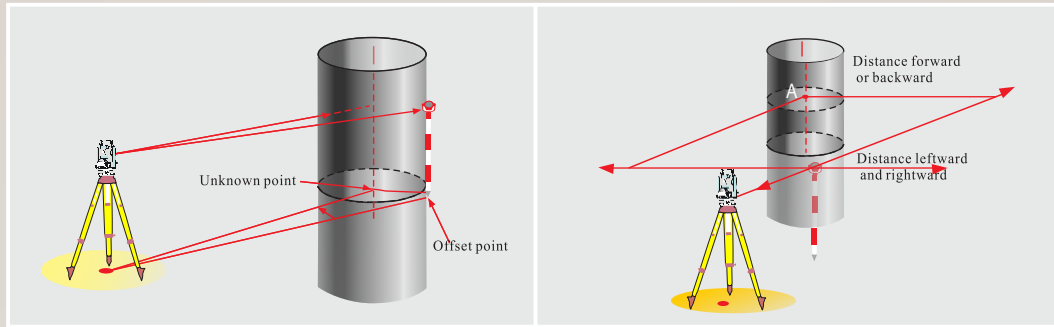
Reference Line & Arc



COGO Programme

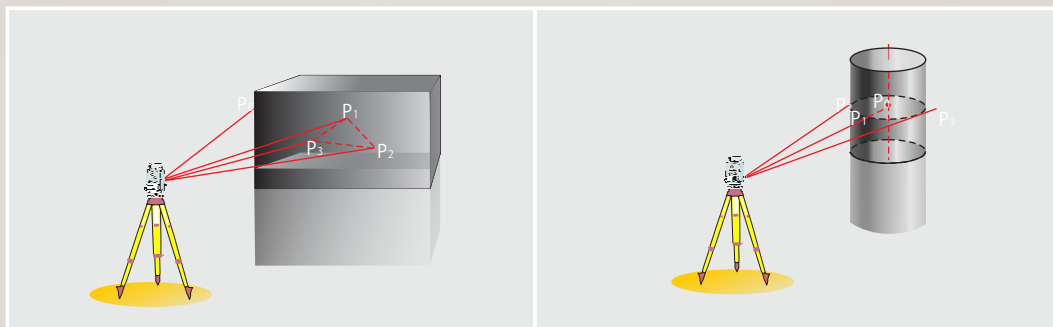


Offset Measurement



Angle Offset

Distance Offset



Plane Offset

Column Offset

Accessories

