

SPECIFICATIONS

C300	
Distance Measurement	
EDM System	Laser Class 3R ^①
	Wave length: 650 - 690 nm. 70-150 Mhz Frequency
Measurement Range	1 Prism ^② 4000m
	3 Prism 5000m
	Mini Prism 800m
	Reflective Sheet ^③ 1200m
	Reflectorless ^④ 1000m
Accuracy(ISO 17123-4:2001)(D= measuring distance in mm)	Single Prism $\pm(2+2\text{ppm} \times D)$ mm
	Reflective Sheet $\pm(3+2\text{ppm} \times D)$ mm
	Reflectorless $\pm(3+2\text{ppm} \times D)$ mm ^⑤
Display Resolution	Fine/Rapid:0.001m/0.01/1/8in ,Tracking:0.01m/0.1ft/1/2in.
Measuring Time	Fine Mode<1.0s; Tracking Mode<0.3s; Repeat< 0.2s
	<0.3s
	0.5-3s ^⑥
Atmospheric Correction	Auto Correction
Prism Constant	Auto Correction
Angle Measurement	
Measurement Method	Absolute Encoding
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)	79mm
Minimum Reading	1" / 5"
Accuracy ISO 17123-3	2"
Detection Method	Horizontal: Dual Vertical: Dual
Telescope	
Image	Erect
Length	152mm
Effective Aperture	45mm, (EDM: 50mm)
Magnification	30 X
Field of View	1° 30'
Minimum Focus	3"
Minimum Focussing Distance	1.5m
Reticle Illumination	Adjustable
Automatic Compensator	
System	Dual Axis Liquid-electric Sensor Compensation
Working Range	$\pm 4'$
Accuracy	1"
Sensitivity of Vial	
Plate Vial	30" / 2mm
Circular Vial	10' / 2mm
Laser Plummet (Default)	
Accuracy	1.5mm (in 1.5m InsHt)
Wave Length	635nm
Laser Class	Class 2
Optical Plummet (Optional)	
Image	Erect
Magnification	3X
Focusing Range	0.3m - ∞
Field of View	5°
Camera (Optional)	
	780000 pixe, 16mm focal length, 11 frames/s refresh rate, 2m - ∞ deep of field, 3 X digital zoom, Automatic white balance
General	
Display	Two 3.5-inch LCD graphic display, 320 x 240 dpi color touch-screen backlight, contrast adjustment
Keyboard	Alphanumeric Keyboard/soft pad 30 keys with backlight
EDM Trigger Key	Quick Measure Key located on side cover
Laser Pointer	Easy to find tar get, Coaxial Red Light
Guide light (optional)	Indicates correct position fast and easy, working range: 5m to 100m
Bluetooth	Easier way to transfer data and connect with controller
Communication	
SD card	Supportable
Serial I/F Port	USB flash disk/ RS-232C/ USB Mini-B/ SD card/ Bluetooth
On-board Battery	
Power Supply	Rechargeable Lithium Battery
Voltage	7.4 V DC
Operating Time	8 hrs
Physical	
IP Standard	IP65
Data Storage	Internal Memory Ready for 833,000 points External Memory SD Card 8GB, ready for approx. 34,000,000 data blocks 8G USB Flash disk, ready for approx. 68,000,000 data blocks
Working Temperature	-20°C ~ +50°C
Dimension and Weight	206 × 200 × 353 mm, 6.0Kg
Operating system	Windows/Linux

STANDARD PACKING LIST

Lens cover	1x
Battery holder	1x
rechargeable Battery	2x
Tools pouch	1x
Plummet	1x
SD card	1x
Quick charger with Ac power cable	1x
Operational Manual	1x
Warranty card	1x
Charger	1x
Reflective sheet	1x
Carry case	1x
Belt	2x
USB interface cable	1x

①EN60825-1: 2007 ②Good conditions: No haze, visibility about 40km. Overcast, no scintillation ③ Good conditions. With Koada gray card white side (90%) reflective. standard sheet size. 300m under good conditions with koda gray card grey side (18%). ④With Kodak gray card white side (90%) reflective. Reflectorless range /accuracy may vary according to measuring objects, observation situations and environmental conditions ⑤Range less than 100m. When 100m to 200m, 5+2ppm and measurement time maximum less than 5s ⑥Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10s

OPTIONAL ACCESSORIES



Wooden Tripod
mini Tripod x 2
Prism Pole x2
Prism Set x2

You Local Authorized Dealer

ComAvTech

C300 TOTAL STATION



KEY FEATURES



Bluetooth 4.0



Data transfer and storage
Flash disk and SD card,
Mini USB.



T-P sensor, automatic correction



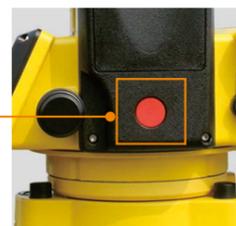
Concentrated ball bearing
Solve axis jam, more stable and
reliable.



Camera Optional for C300



1000m/600m reflectorless EDM
Laser pointer, easy to find target



EDM Trigger Key
Special design for quick
measurement

Control panel with high resolution
touch screen

Back-lights keypad with 3.5 inch colorful
LCD touch screen, display for easy viewing
of graphics and operations.
Active screen back-light technology



HD
Display



T/P
Sensor



4-probe
Encoding



Dual
Compensation



Laser
Plummet



Bluetooth

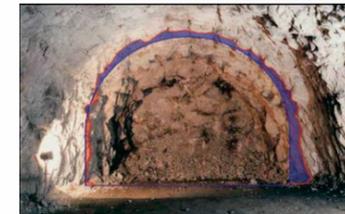


SD
Storage



USB
Interface

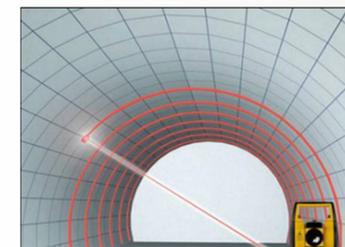
TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction



Reflectorless Cross-section Measurement



Program optional for C300

Powerful

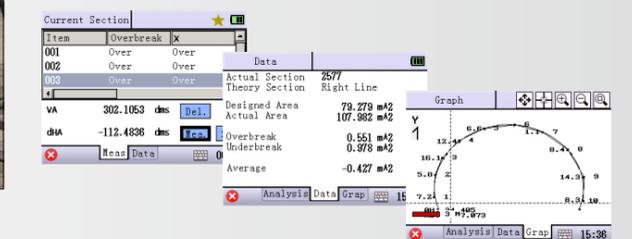
- Integrated the Random detection of overbreak & underbreak, Excavation contour line lofting, Cross-section measurement, Points & lines lay-out and Data processing as a whole

Simplify

- One-key operation to finish the data seamless transform among modules

Precise

- Millimeter accuracy ensured by considering various plane curve and vertical curve, contour shape and tunnel interface in same time



CONTROLLER



Powerful application platform

- Increase efficiency with data controller

Combine with different kinds of fieldwork software

- SURVCE, Field Genius, etc.

