

SPECIFICATIONS

		C300	
Distance Measurement		Laser Class 3R ①	
EDM System		Wave legnth: 650 - 690 nm. 70-150 Mhz Frequency	
Measurement Range	1 Prism ②	4000m	
	3 Prism	5000m	
	Mini Prism	800m	
	Reflective Sheet③	1200m	
	Reflectorless ④	1000m	
Accuracy(ISO 17123-4:2001)(D= measuring distance in mm)	Single Prism	±(2+2ppm×D) mm	
	Reflective Sheet	±(3+2ppm×D) mm	
	Reflectorless	±(3+2ppm×D) mm⑤	
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	
		0.5-3s⑥	
Atmospheric Correction		Auto Correction	
Prism Constant		Auto Correction	
Angle Measurement		Absolute Encoding	
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		Erect	
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		Dual Axis Liquid-electric Sensor Compensation	
System		Dual Axis Liquid-electric Sensor Compensation	
Working Range		±4 ’	
Accuracy		1 "	
Sensitivity of Vial		30 " / 2mm	
Plate Vial		30 " / 2mm	
Circular Vial		10 ’ / 2mm	
Laser Plummet (Default)		1.5mm (in 1.5m InsHt)	
Accuracy		1.5mm (in 1.5m InsHt)	
Wave Length		635nm	
Laser Class		Class 2	
Optical Plummet (Optional)		Erect	
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		Two 3.5-inch LCD graphic display, 320 x 240 dpi color touch-screen backlight, contrast adjustment	
Display		Alphanumeric Keyboard/soft pad 30 keys with backlight	
Keyboard		Quick Measure Key located on side cover	
EDM Trigger Key		Easy to find tar get, Coaxial Red Light	
Laser Pointer		Indicates correct position fast and easy, working range: 5m to 100m	
Guide light (optional)		Easier way to transfer data and connect with controller	
Bluetooth			
Communication		Supportable	
SD card		USB flash disk/ RS-232C/ USB Mini-B/ SD card/ Bluetooth	
Serial I/F Port			
On-board Battery		Rechargeable Lithium Battery	
Power Supply		7.4 V DC	
Voltage		8 hrs	
Operating Time			
Physical		IP65	
IP Standard		Ready for 833,000 points	
	Internal Memory	SD Card 8GB, ready for approx. 34,000,000 data blocks	
	External Memory	8G USB Flash disk, ready for approx. 68,000,000 data blocks	
Working Temperature		—20℃～+50℃	
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
Tool kit	
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 Koads gray card white side (90%) reflective. standard sheet size. 300m under good conditions with koads 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



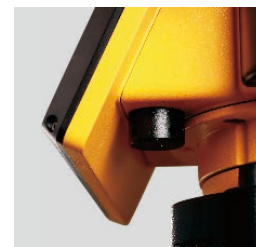
KEY FEATURES



Bluetooth 4.0



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



T-P sensor, automatic correction



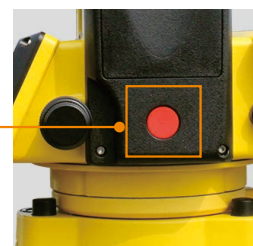
Concentrated ball bearing
Solve axis jam, more stable and
reliable.



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



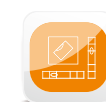
HD
Display



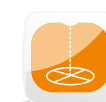
T/P
Sensor



4-probe
Encoding



Dual
Compensation



Laser
Plummet



Bluetooth



SD
Storage



USB
Interface

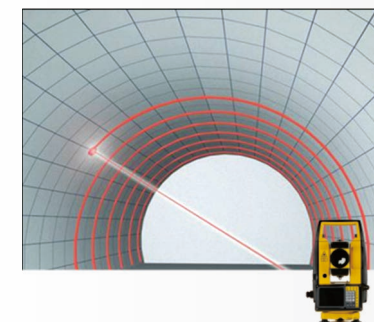
TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction



Reflectorless Cross-section Measurement



Program optional for C300

Powerful

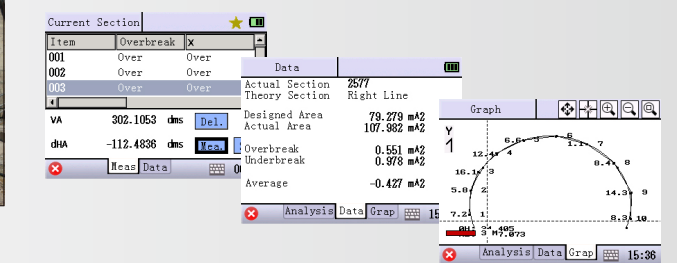
- Integrated the Random detection of overbreak & underbreak, Excavation contour line lofting, Cross-section measurement, Points & lines lay-out and Data processing as a whole

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.

