

MECHANICAL TOTAL STATION

THE EFFICIENT, ACCURATE WAY TO WORK

The new Trimble® C5 mechanical total station completes the industry's top portfolio with productivity-boosting, time-saving features that make fieldwork easier and faster.

The Trimble C5 is tough and reliable with a user-friendly design. It limits user fatigue even as it stands up to the toughest worksite conditions. On a wide range of projects, in diverse settings across the globe, the C5 is hard at work, quickly capturing accurate measurements and virtually eliminating downtime

Precise Autofocus. Superior Optics. Accurate Results.

The Trimble C5 offers the easy setup Trimble users have come to expect. The autofocus powered by Nikon enables the C5 to quickly and precisely focus on the anticipated distance, so users can simply sight, shoot and go. That means any day spent in the field can be highly productive. Superior Nikon optics give you crisp, bright sightings even in low light conditions. The results are always precise and true—which ensures greater productivity back in the office, too. There's no need to return to the field, because you get it right the first time.

Tough, Durable and Easy to Use.

The Trimble C5 is lightweight and compact, facilitating ease of storage, transport and set up. It's also easy to carry when you're in the field. Users can work as long as they want without getting tired. The rugged construction means it also can handle whatever situation and wherever you take it. The C5 is built to deliver exceptional results, whatever the conditions. Count on it to perform to the highest standards, project after project, year after year.

Cut Downtime. Improve Workflows.

Fully charged, the Trimble C5 batteries have enough power to last all day. And for the days that begin with half-charged batteries, they're hot-swappable. So there's no time wasted.

The Trimble C5 is compatible with Trimble's location-tracking technology, L2P. This brings simplicity to large fleet tracking, and peace of mind to fleets of one.

The new Trimble C5 has color touch screens supporting Trimble Access™ on board. The C5 is available in 1", 2", 3", and 5" accuracies. Whatever the task, it's equipped and ready to deliver the high level of efficiency and productivity—the improved workflows—you expect from Trimble.

Key Features

- Autofocus enabling precise and fast focus
- ► Powerful long range EDM
- Dual color touchscreen displays
- ► L2P security location technology
- Compact, lightweight and rugged system design





Trimble C5 MECHANICAL TOTAL STATION

DISTANCE MEASUREMENT

Range with specified prisms

Good conditions1
 With reflector sheet 5 cm x 5 cm
 1.5 m to 300 m

 With single prism 6.25 cm
 1.5 m to 5000 m

	Good ¹	Normal ²	Difficult ³
KGC (18%)	400 m	300 m	235 m
KGC (90%)	800 m	500 m	250 m

Accuracy in standard measurement mode7

 Prism⁴
 ±(2+2 ppm × D) mm

 Reflectorless
 ±(3+2 ppm x D) mm

Measuring interval⁵

	Standard mode	Fast standard mode	Tracking mode
Prism mode	1.0 s	0.5 s	0.3 s
Reflectorless Mode	1.0 s	0.5 s	0.3 s

ANGLE MEASUREMENT

TELESCOPE
Tube length
Image Erect
Magnification
Effective diameter of objective
EDM Diameter50 mm
Field of view
Resolving power
Minimum focusing distance
Laser Pointer
Tracklight Yes
Reticle Illumination. Yes, 4 steps

TILT SENSOR

Type	.l-axis
Method Liquid-electric dete	ction
Compensation range	±3'

COMMUNICATIONS

Communication ports. 1 x serial (RS-232C), 2 x USB (host and client)
Wireless communications Integrated Bluetooth

POWER	
Internal Li–ion battery (x2)	
Output voltage	3.6 V
Operating time ⁶	
Continuous angle-only measurement	.14 h
Distance/ angle measurement/ AF every 30 s	
Continuous distance / angle measurement	7 h
Charging time full charge	6 h

Charging time, full charge	
GENERAL SPECIFICATIONS Autofocus	Yes
Level vials Sensitivity of Circular level vial on tribrach	
Tangent Clamps Display face 1	LCD back-lit (640 x 480 pixel)
Display face 2	Windows® Embedded Compact 7
Point memory Internal Plummet	. 512 MB RAM, 4 GB flash memory
Optical Plummet: Magnification	•
Field of view	0.5 m
Dimensions (W x D x H)	
1", 2", 3", 5" Main unit. Battery. Carrying case.	0.1 kg
,0	

ENVIRONMENTAL

Operating temperature range -20 °C to +50 °C Storage temperature range -25 °C to +60 °C Atmospheric correction Atmospheric correction
Temperature range.
Barometric pressure
400 mmHg to 999 mmHg/533 hPa to
1,332 hPa/15.8 inHg to 39.3 inHg
Dust and water protection
1,66

CERTIFICATION
Class B Part 15 FCC certification, CE Mark approval. RCM Mark. IEC60825-1 am 2007, IEC60825-1 am 2014, FDA notice 50 Prism/Reflectorless mode: Class 1 laser Laser Plummet/Laser Pointer: Class 2 laser

- Good conditions (good visibility, overcast, twilight, low ambient light).
 Normal conditions (normal visibility, object in the shadow, moderate ambient light).
 Difficult conditions (haze, object in direct sunlight, high ambient light).
 Standard Deviation based on ISO 1723-4
 Measuring time may vary depending on measuring distance and conditions. Specification based on average
- of repeated measurements.

 Battery life specification at 25 °C. Operation times may vary depending on the condition and deterioration
- For both prism and reflectorless modes, EDM accuracy in fast standard mode is $\pm (10+5 \, \text{ppm} \times \text{D}) \, \text{mm}$ and tracking mode is $\pm (20+5 \, \text{ppm} \times \text{D}) \, \text{mm}$.

Bluetooth type approvals are country specific.

Specifications subject to change without notice.









NORTH AMERICA

Trimble Inc. 10368 Westmoor Dr Westminster CO 80021

Trimble Germany GmbH Am Prime Parc 11 65479 Raunheim **GFRMANY**

ASIA-PACIFIC

Trimble Navigation Singapore Pty Limited 80 Marine Parade Road #22-06. Parkway Parade Singapore 449269 SINGAPORE

Contact your local Trimble Authorized Distribution Partner for more information

© 2017. Trimble Inc. All rights reserved. Trimble and the Globe & Triangle logo are trademarks of Trimble Inc., registered in the United States and in other countries. Access is a trademark of Trimble Inc. The Bluetooth word mark and logos are owned by the Bluetooth SIG, inc. and any use of such marks by Trimble Inc. is under license. Nikon is a registered trademark of Nikon Corporation. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property Trimble Inc. The Bluetooth word mark and logos are or Corporation. Microsoft and Windows are either registe of their respective owners. PN 022516-338B (10/17)

