Trimble C5

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.

Extend Your Survey Season.

For users working in cold temperatures, the Trimble C5 2" and 5" total stations are available in a specially designed Winterized version.

Key Features

- Autofocus enabling precise and fast focus
- Powerful long range EDM

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- Dual color touchscreen displays
- ► L2P security location technology
- Compact, lightweight and rugged system design





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DISTANCE MEASUREMENT

Range with specified prisms	Range	with	specified	prisms
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Good conditions:		
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

Reflectorless mode

	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 mode

Prism ⁴	 \pm (2+2 ppm × D) mm
Reflectorless	 \pm (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

Accuracy (Standard Deviation based on ISO 17123-3)1"	
3	" (1.0 mgon), 5" (1.5 mgon)
Reading system	Absolute encode
Circle diameter	
Horizontal/Vertical angle	Diametrical/ Single

TELECCODE

ELESCOPE
ube length125 mm
mageErect
Magnification30× (19x/38x with optional eyepieces)
Iffective diameter of objective
DM Diameter50 mm
ield of view
Resolving power
Minimum focusing distance
aser Pointer
racklight Yes
Reticle Illumination. Yes, 4 steps

TILT SENSOR

Type	
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
Operating time ⁶
Continuous angle-only measurement
Distance/ angle measurement/ AF every 30 s
Continuous distance / angle measurement
Charging time, full charge both batteriesapprox. 6 H

..... Yes

GENERAL SPECIFICATIONS Autofocus

l evel vials	
Sensitivity of Circular level vial on tribrach	10'/2 mm
Tangent Clamps	Yes
Display face 1	LCD back-lit (640 x 480 pixel)
Display face 2	LCD back-lit (640 x 480 pixel)
Operating system	
Processor	
Point memory	512 MB RAM, 4 GB flash memory
Internal Plummet	Optical or Class 2 Laser
Optical Plummet:	2
Magnification	
Field of view	
Minimum focusing distance Dimensions (W x D x H)	206 mm v 160 mm v 219 mm
Weight (approx.)	200
1", 2", 3", 5" Main unit	4.2 kg
Battery	
Carrying case	
Ourrying ousc	

ENVIRONMENTAL

Operating temperature range
Winterized −30 °C to +50 °C
Storage temperature range –25 °C to +60 °C
Winterized −30 °C to +60 °C
Atmospheric correction
Temperature range ——40 °C to +60 °C
Barometric pressure 400 mmHg to 999 mmHg/533 hPa to
1,332 hPa/15.8 inHg to 39.3 inHg
Dust and water protection

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 measuremen
- On repeated insection at 25 °C. Operation times may vary depending on the condition and deterioration of the battery.

 7. For both prism and reflectorless modes, EDM accuracy in fast standard mode is ±(10+5 ppm × D) mm and tracking mode is ±(20+5 ppm × D) mm.

Bluetooth type approvals are country specific.

Specifications subject to change without notice.









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