



# DT-200/DT-200L Series

## The Industry's Most Advanced Digital Theodolite



**Simplify layout and positioning jobs with unmatched speed and accuracy!**

- OPTICS CENTERED LASER FOR VERIFIABLE ACCURACY – UP TO 165 FT. (50M) AWAY (DT-200L ONLY)
- EXTREMELY LOW POWER CONSUMPTION – 140 HRS OF OPERATION FROM 4 AA BATTERIES (W/O LASER)
- WATERPROOF AND DUSTPROOF
- VERTICAL ANGLE CORRECTION PROVIDES  $\pm 3$  MINUTES ACCURACY
- RS232C DATA I/O PORT



Topcon's DT-200 Series represents the highest accuracy and value in Digital Theodolite technology. Only Topcon, with 75+ years of experience manufacturing the World's most precise Optical Survey instruments can offer the precision, durability, and advanced technology found in each DT-200.

### Make your next job a snap

With Topcon's DT-200 you'll be up and working fast, thanks to its simple interface and large, easy-to-see backlit LCD. There's an optical plummet that makes set up over a control point easy, and a tilt sensor that provides  $\pm 3$  minute angle correction. The DT-200 Series features two magnification choices - 26x and 30x, a super-short 3' minimum focus distance for those tight areas, and angle accuracies of 5, 7, and 9 arc seconds.

### L = Laser

Add a whole new dimension of accuracy and confidence to your alignment jobs with Topcon's unique DT-200L Series, featuring a 633nm Class II laser beam. It can be used anywhere on your site and seen clearly in direct sunlight up to 165'. Now you can easily and accurately place anchor bolts at regular intervals on a line, set an angle and use the beam to verify your tape measure is properly aligned for the next stake, or "sight in" footers, frames, and tilt-up walls, all without pulling a string!

No matter which DT-200 you choose, you'll experience the simplicity and value that only Topcon can provide.

Topcon. It's time.



**DT-200/DT-200L Series**  
Digital Theodolite



## Durability, accuracy, and value, that's Topcon and that's the DT-200 and DT-200L Series of digital theodolites.



### Water and dustproof

Get the work done, even in less than perfect conditions. All DT-200/DT-200L Series instruments are rated to IP66, standing up to even the rainiest conditions. And each telescope is gas charged to further avoid moisture intrusion and limit or eliminate lens fogging.



### Laser accurate (DT-200L Series only)

Topcon's World Leading laser technology is incorporated in to the DT-200L Series to aid in fast, confident alignment. The 633nm beam is emitted directly from the aperture, but does not impede viewing, in fact it's not even visible when sighting through the lens. (Class II laser beam)



### Simple Operation

Each DT-200 provides large, high-contrast, backlit LCD's on both sides of the instrument. And the five button interface panel is so simple to use your crew won't require any special training to put your DT-200 to use day-in and day-out. (DT-209/209L: single side display)



### Fast, reliable data gathering (DT-205/205L)

Eliminate the notebook, pen, and hassle of pages of note taking. Easily connect the DT-200/DT-200L Series to a Field Controller or a laptop computer for continuous download of angle measurements as they are made.

### The ultimate in continuous operation

The DT-200/DT-200L Series provides up to 140+ hours of operation in Angle Measurement mode on 4AA batteries, better than any other model! And when it is time to change batteries, it's as easy as snapping out the old ones and snapping in the new.

Even when using the laser, power consumption is extremely low providing 80 hours of continuous operation.



# Compact, lightweight, sets-up in seconds. Topcon's DT-200/DT-200L Series Theodolites, all the theodolite you'll ever need.



## Accessories (model dependent)

**Diagonal Eyepiece** (55331)

**Roof Plummet** (55303)

**Solar Eyepiece** (55305)

**Trough Compass** (55323)

**Eyepiece Prism w/Darkener** (55301)

## The Leader in Positioning Technology...

Your local authorized Topcon dealer has the answer for all of your precise positioning needs. Whether you're looking for the World's most advanced and accurate optical survey instruments, GPS+ control for surveying and engineering applications, site layout or grade management on a construction job site, your local Topcon dealer offers the widest range of products to get the job done quickly and accurately.

There's only one company that offers you all of the positioning tools to keep you competitive in today's market. They're only available from Topcon and your local Topcon dealer.

## The Leader in Customer Satisfaction...

To ensure that your Topcon product maintains peak performance, your local Topcon dealer offers factory trained and certified service technicians. And just in case service assistance isn't available in your area, our factory offers a repair and support policy second to none.

## DT-200/DT-200L Series packages include

- Instrument
- Plumb Bob
- Tool kit
- Waterproof protective cover
- Lint free lens cloth
- Hard shell carry case



## Specifications

		DT-205	DT-207	DT-209	DT-205L	DT-207L	DT-209L
<b>Angle Measurement</b>	Accuracy	5"	7"	9"	5"	7"	9"
	Method	Absolute reading	Absolute reading	Absolute reading	Absolute reading	Absolute reading	Absolute reading
	Detecting	Horiz.: 2 sides Vert.: 1 side	Horiz.: 2 sides Vert.: 1 side	Horiz.: 1 side Vert.: 1 side	Horiz.: 2 sides Vert.: 1 side	Horiz.: 2 sides Vert.: 1 side	Horiz.: 1 side Vert.: 1 side
	Min. reading	1"/5"	5"/10"	10"/20"	1"/5"	5"/10"	10"/20"
	Diameter circle	0.5mgon/1mgon 71mm (2.75")	1mgon/2mgon 71mm (2.75")	2mgon/5mgon 71mm (2.75")	0.5mgon/1mgon 71mm (2.75")	1mgon/2mgon 71mm (2.75")	2mgon/5mgon 71mm (2.75")
<b>Telescope</b>	Magnification	30x	30x	26x	30x	30x	26x
	Length	149mm (5.8")	149mm (5.8")	149mm (5.8")	152mm (5.9")	152mm (5.9")	152mm (5.9")
	Objective Lens	45mm (1.7")	45mm (1.7")	40mm (1.5")	45mm (1.7")	45mm (1.7")	40mm (1.5")
	Field of view	1°30'	1°30'	1°30'	1°30'	1°30'	1°30'
	Resolving power	2.5"	2.5"	2.5"	2.5"	2.5"	2.5"
	Minimum focus	0.9m (2.9')	0.9m (2.9')	0.9m (2.9')	1m (3.2')	1m (3.2')	1m (3.2')
	Stadia ratio	100	100	100	100	100	100
	Stadia constant	0	0	0	0	0	0
	Sighting collimator	Double	Double	Double	Double	Double	Double
<b>Laser Pointer</b>	Method	N/A	N/A	N/A	Focusing	Focusing	Focusing
	Wave length/Power	N/A	N/A	N/A	633nm/0.6mW	633nm/0.6mW	633nm/0.6mW
	Laser class	N/A	N/A	N/A	Class II	Class II	Class II
<b>Display</b>	Unit	2 sides	2 sides	1 side	2 sides	2 sides	1 side
		LCD 7segments	LCD 7segments	LCD 7segments	LCD 7segments	LCD 7segments	LCD 7segments
<b>Data output</b>	Serial signal conn.	RS-232C	N/A	N/A	RS-232C	N/A	N/A
<b>Illumination</b>	Display	Yes	Yes	Yes	Yes	Yes	Yes
	Reticle	Yes	Yes	N/A	Yes	Yes	N/A
<b>Compensator</b>	Tilt sensor	Vertical	N/A	N/A	Vertical	N/A	N/A
	Compensating range	±3'	N/A	N/A	±3'	N/A	N/A
<b>Optical Plummet</b>	Magnification	3x	3x	3x	3x	3x	3x
	Field of view	3°	3°	3°	3°	3°	3°
	Focusing	0.5m ~ ∞	0.5m ~ ∞	0.5m ~ ∞	0.5m ~ ∞	0.5m ~ ∞	0.5m ~ ∞
<b>Level Sensitivity</b>	Plate level	30"/2mm	30"/2mm	60"/2mm	30"/2mm	30"/2mm	60"/2mm
	Circular level	10'/2mm	10'/2mm	10'/2mm	10'/2mm	10'/2mm	10'/2mm
<b>Water protection</b>	Standard	IP66	IP66	IP66	IP66	IP66	IP66
<b>Power supply</b>	Battery	4AA batteries	4AA batteries	4AA batteries	4AA batteries	4AA batteries	4AA batteries
<b>Operating time</b>	Theodolite only	140h	150h	170h	140h	150h	170h
	Laser only	N/A	N/A	N/A	80h	80h	80h
	Theodo. & laser	N/A	N/A	N/A	45h	45h	45h
<b>Operating temp.</b>		-68°F ~ +122°F	-68°F ~ +122°F	-68°F ~ +122°F	-68°F ~ +122°F	-68°F ~ +122°F	-68°F ~ +122°F
		(-20°C ~ +50°C)	(-20°C ~ +50°C)	(-20°C ~ +50°C)	(-20°C ~ +50°C)	(-20°C ~ +50°C)	(-20°C ~ +50°C)
<b>Weight</b>		9lbs (4.1kg)	9lbs (4.1kg)	7.5lbs (3.4kg)	9.25lbs (4.2kg)	9.25lbs (4.2kg)	8lbs (3.6kg)



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Specifications subject to change without notice

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