

Trimble

Trimble DiNi Digital Levels

The DiNi 12, DiNi 12T and DiNi 22

—economical and easy-to-use vertical measuring tools

Key Features and Benefits

- Large screen
- Easy to use
- PC card memory
- Short measuring time
- 5 m rod

Our open-system builder's, engineer's and geodetic levels are designed for ease of use and productivity. So whether you are working on a construction site or precisely monitoring deformation, the Trimble DiNi® digital levels from the Trimble Toolbox enable you to accurately record and monitor vertical measurements.

Productivity

Through innovative technology, and a menu-driven interface, our digital levels provide a tool you can quickly learn and effectively use to complete your work. With the ability to record measurements in as fast as 3 seconds, you can really improve your productivity.

Using the DiNi digital levels, you can save up to 50 percent of your time and costs. With no human errors (reading errors, writing errors, calculation of the limits, values), all measurements and calculations are very fast. And because it can be difficult to see the entire staff due to terrain or building site obstructions, the DiNi digital levels require only a nominal 30 centimeters of the staff to be visible for measurements.

The Trimble DiNi digital levels are extremely easy to learn and use. The clearly structured, menu-driven interface, alphanumeric point coding, 22 keys and large graphical display ensure you can easily operate the digital levels in a wide range of environments.



Accurate levels for engineering and geodetic measurements

Seamless Data Transfer

The digital levels use a DOS-formatted PC card for data storage and seamless data transfer. Precise vertical measurements can be transferred to a wide variety of survey and design software packages, including Trimble office software as well as leading third-party software. You can forget about problems of data transfer and conversion and get on with your job.

DiNi 12 Digital Level

The standard of accuracy — the DiNi 12 digital level is the ideal system for the precise electronic measurement of height differences and distances. When used in conjunction with an Invar staff, its standard deviation is as small as 0.3 mm/km of reciprocal leveling.

Standard deviations are 1.3 mm with other, more economical staffs.

DiNi 12T Digital Level

Total Level Station — the DiNi 12T digital level is more than just a level. This instrument is both a digital level (the DiNi 12) plus a Total Station in a single unit for extra flexibility. Height measurement is performed with a staff segment of 30 cm to minimize refraction influences. Distance is measured with a 50 cm staff segment for greater accuracy in the total station mode.

DiNi 22 Digital Level

Digital Engineer's Level — ideal for the engineer working with heights, the DiNi 22 digital level is the economic option for all jobs that are less demanding in terms of accuracy. Standard deviations for 1 km of reciprocal leveling are 1.3 mm with a folding staff, or 0.7 mm with a precision Invar staff.

No matter what your application, the Trimble DiNi digital levels are ideal for the precise recording or monitoring of verticals.

Technical Specification

	DINI 12	DINI 12T	DINI 22
Accuracy, DIN 18723 (electr. measurement)			
Standard deviation for 1 km two-way levelling			
– Precise levelling rod, coded scale	0.3 mm	0.3 mm	0.7 mm
– Engineer's folding staff, coded scale	1.0 mm	1.0 mm	1.3 mm
Accuracy, distance (electr. measurement)			
Tacheometer mode (1 m staff intercept)			
– Precise levelling rod, coded scale		0.5 D x 0.001 m	
– Engineer's folding staff, coded scale		1.0 D x 0.001 m	
Levelling mode (0.3 m staff intercept, range 20 m)			
– Precise levelling rod, coded scale	20 mm	20 mm	25 mm
– Engineer's folding staff, coded scale	25 mm	25 mm	30 mm
Accuracy, angles			
External graduated circle			
– Reading to	1 grad/1°		1 grad/1°
– Estimation to	0.1 grad/0.1°		0.1 grad/0.1°
Electronic circle (absolute code)			
– Angular units		grad/deg,min.sec/deg	
– Standard deviation for one bearing		2 mgrad/6"	
Measuring range			
Electronic measurement			
– Precise levelling rod, coded scale	1.5 - 100 m	1.5 - 100 m	1.5 - 100 m
– Engineer's folding staff, coded scale	1.5 - 100 m	1.5 - 100 m	1.5 - 100 m
Visual measurement			
– Engineer's folding staff, metric graduation	from 1.3 m	from 1.3 m	from 1.3 m
Time per measurement			
Heights and distances			
	3 s	3 s	2 s
Angles			
		0.3 s	
Telescope magnification			
	32x	32x	26x
Compensator			
Tilt range			
	± 15'	± 15'	± 15'
Setting accuracy			
	± 0.2"	± 0.2"	± 0.5"
Display			
	Four lines of 21 characters each, graphic capability		
Keyboard			
	22 keys, screen-related soft keys (menu & dialog operation)		
Measurement program			
Standard			
Single/multiple measurement, line of levels with intermediate sightings, area levelling, setting out			
Extensions			
	Line adjustment	Line adjustment, tacheometer & coordinate modes	
Levelling methodes			
	BF, BF, FB, BF, BF, BB, FF, aBF, aBF FB, aBF BF, ABB FF		BF, BF FB, ABF FB (a=alternating)
Real-time clock			
	Recording time of measurement		
Recording			
Data memory			
	PCMCIA Card (SRAM); option of 256KB, 512 KB, 1MB, 2MB, 4MB, 8MB		Integrated data memory for 2200 data lines
On-line			
	RS 232 C Interface for external connection		
Power supply			
NiMH battery pack: 6.0 V; 1.1 Ah rechargeable, charging time with LG 20 one hour			
Full charged battery lasts			
	3 days	3 days	1 week
Operating temperature			
	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Weight (instrument only)			
	3.5 kg	3.7 kg	3.2 kg

Certified quality in accordance with DIN ISO 9001/EN 29001.

ORDERING INFORMATION

For further information please contact your nearest Trimble Authorized Distributor or Trimble Office.

You may also visit our website at <http://www.trimble.com>

Specifications and descriptions are subject to change without prior notice.



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