



DT402-Z Auto-collimating Digital Theodolite

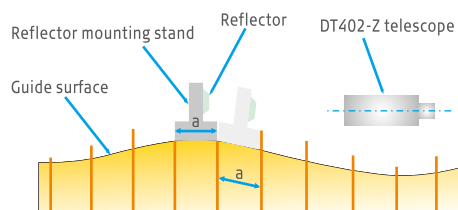


- Effective working distance for indoor collimation reaches to 30m
- Directional orientation error of auto-collimator part:5"
- DT402-Z contributes to aligning measurement and baseline precision measurement
- With absolute encoder, angle measurements can be saved when power off
- Compact design with wide LCD display facilitates numerical reading and operation
- Minimum reading:1"/5"/10" or 0.2mgon/1mgon/2mgon
- Lower power consumption, longer working time with one battery

■ DT402-Z Auto-collimating Digital Theodolite

For diverse industrial applications

- Eligible for major industries such as setting up and inspecting varieties of machines, facilities and structural objects.
- Pretty tailor-made for industrial customers, which include but are not limited to: Machine tool construction, Rail transit construction, Port and shipbuilding, Telecommunications, Heavy industry construction.



E.g. guide surfaces play an important role in regulating the rectilinear motion of machine tools. So manufacturers might use the method shown above to measure the straightness of guide surfaces in the course of the manufacturing process.

Proficient in aligning measurement

- Compact unibody design
It is a perfect composition of user-friendliness and functionality. I.e., this design not only brings good appearance but also helps with comfortable operation ergonomically.
- Precise aligning telescope
A precise aligning telescope makes minimum focus reduced to 1m, which facilitates target identification and angle accuracy improvement even in near field.
- Salient auto-collimating feature
Besides general theodolite functions it provides auto-collimating which does apply to aligning measurement. Even if quite small tilt changes of target happen they can also be measured precisely and thus the target can be adjusted accurately.

■ Technical data

DT402-Z		DT402-Z	
Telescope		Laser plummet(Standard)	
Image	Erect	Accuracy	±1mm/1.5m
Objective aperture	φ45mm	Laser wave length	635nm
Magnification	30×	Working distance	0.5-80m
Field of view	1° 30'	Laser class	Class 2 (IEC60825-1)
Minimum focus	1.0m	Maximum output power	≥0.7mw
Resolution	3.5"	Compensator	
Angle measurement		Single axis	
Accuracy	2"	Compensation range	±3'
Reading system	Absolute encoder	Zero position error	30"
Minimum reading	1" /5" /10" (0.2mgon/1mgon/2mgon)	Vertical linearity error	6"
Auto-collimator part		Compensation setting accuracy	1"
Collimating accuracy	5"	Level vial sensitivity	
Working range	30m	Plate level	30" /2mm
Power supply	Share power with instrument	Circular level	8' /2mm
Laser pointer power supply	Share power with instrument	Power	
Illumination		Battery	6V Ni-MH battery
Reticle	Yes	Operation time	24 hrs
LCD display backlight	Yes	Charger	FDJ6(110/220V)
Display		Charging time	Approx. 4 hours
Display screen	LCD on double sides, English display	Low power buzzer alarm	Auto power-off after 10 minutes alarm
Optical plummet(Factory optional)		Other	
Image	Erect	Serial interface	RS-232C
Magnification	3x	Water and dust production	IP55 (IEC60529)
Accuracy	±0.8mm/1.5m	Operation temperature	-20℃~+50℃
Focus range	0.5m to ∞	Instrument weight(battery included)	<5kg
Field of view	4°	Dimension(W×D×H)	<185*220*360mm

Illustrations, descriptions and technical specifications are not binding and may change

FOIF Since 1958
It's professional

Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904

FAX:+86 512 65230619

Http://www.foif.com

E-mail:internationalsales@foif.com.cn

ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China



Local Dealer: