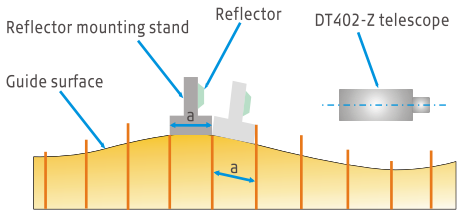
DT402-Z Auto-collimating Digital Theodolite

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

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

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