

DT400/LP400 Series Digital Theodolite



- Telescope laser emitting system provides a visible laser beam can be seen up to 150 metres away outside through eyepiece in daylight(LP400 series)
- Laser pointer brightness and focus adjustable(LP400 series)
- Laser emitting system is integrated with telescope, resistant to dust, rain and other harsh elements(LP400 series)
- 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
- Repeated angle program which carries out continuous measuring and average calculating to get high accuracy angle value
- Rechargeable battery and AA battery are available
- Lower power consumption, longer working time with one battery



DT400/LP400 Series Digital Theodolite

Technical data

	LP402 ^{*1} LP402L	LP405 LP405L	DT402 DT402L	DT405 DT405L	DT405D DT405DL
Telescope					
Image	Erect				
Objective aperture	φ45mm				
Magnification	30×				
Field of view	1° 30'				
Minimum focus	1.0m				
Angle measurement					
Reading system	Absolute encoder				
Minimum reading	1" /5" /10" (0.2mgon/1mgon/2mgon)				
Accuracy ^{*2}	2"	5"	2"	5"	5"
Compensation range	±3'	±3'	±3'	±3'	/
Compensation setting accuracy	1"	1"	1"	1"	/
Display					
Display panel	LCD on double sides				
Illumination					
Reticle	Yes				
LCD display back light	Yes				
Level sensitivity					
Plate level	30" /2mm				
Circular level	8"/2mm				
Power supply	6V Ni-MH rechargeable battery or 4pcs AA battery				
Operation time	24 hrs with rechargeable battery				
Laser plummet (Standard)					
Accuracy	±1.0mm/1.5m				
Laser class	Class 2 /IEC60825-1				
Laser wave	635nm				
Optical plummet (Factory optional)					
Accuracy	±0.8mm/1.5m				
Image	Erect				
Magnification	3x				
Field of view	4'				
Focus range	0.5m to ∞				
Laser pointer system					
Type of laser tube	Semiconductor laser	/			
Laser wavelength	635nm	/			
Effective range	150m (visible through eyepiece in daylight)	/			
Size of laser spot	5mm/100m	/			
Deviation between laser spot axis and collimation axis when focus	≤5"	/			
Other					
Serial interface	RS-232C				/
Dimension	153*175*340mm				
Instrument weight	≤4.5kg				
Operation temperature	-30℃~+50℃				
Water and dust protection	IP55				

*1 L: Laser plummet, standard *2 Standard deviation based on ISO17123-3

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

Accessories:



AA battery cassette



DT45 rechargeable battery



FD17 charger



SK7 carrying case



Laser target for LP400



FD19 diagonal eyepiece (Optional for DT400)

Related Products



DT200C-2
Auto-collimating theodolite