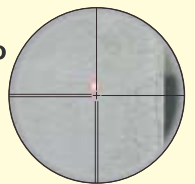




## DT400/LP400 Series Digital Theodolite



- Telescope laser emitting system provides a visible laser beam which 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 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<br>LP402L                                | LP405<br>LP405L | DT402<br>DT402L | DT405<br>DT405L | DT405D<br>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                                                    | 35hrs/Backlight ON, 50hrs/Backlight OFF          |                 |                 |                 |                   |
| 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                                             | -20℃~+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



BT45 rechargeable battery



FDJ7 charger



SX7 carrying case



Laser target for LP400



FJ19 diagonal eyepiece  
(Optional for DT400)

## Related Products



DT402-Z  
Auto-collimating theodolite

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