

DT8-05 SERIES

DIGITAL TRANSIT THEODOLITE

Accurate Measurements for a Wide Range of Construction and Surveying Applications

- ▶ **Incremental encoding detection system** for flexible scaling functionality
- ▶ **Front and back digital displays** for easy readout of measurements
- ▶ **Coaxial tangent and clamp screws** for sighting and alignment
- ▶ **Automatic power shut-off**
- ▶ **Built-in easy access battery pack** with alkaline or rechargeable battery
- ▶ **Water resistant, sealed construction** for IP 54 protection



Digital Display with Easy to Use Interface

Front and Back Display with Illumination



DT8-05 DIGITAL TRANSIT THEODOLITE

TWO YEAR
LIMITED WARRANTY

DT8-05 Series Theodolites includes:
sunshade, tool kit, rain cover, plumb bob,
carrying case, rechargeable battery kit,
alkaline battery tray, user guide



DT8-05P
46-D8895

DT8-05LP
46-D8896

DT8-05LS
46-D8897

Telescope

Objective aperture	1.77 in (45 mm)	1.77 in (45 mm)	1.77 in (45 mm)
Magnification	30X	30X	30X
Image	Erect	Erect	Erect
Field of view	1° 30'	1° 30'	1° 30'
Resolution	3"	3"	3"
Minimum focus	53 in (1.3 m)	53 in (1.3 m)	53 in (1.3 m)
Stadia constant	100	100	100

Electronic Angle Measurement

Angle measurement	Absolute Encoding	Absolute Encoding	Absolute Encoding
Minimum reading	1" / 5"	1" / 5"	1" / 5"
Direction method	H. Both sides, V. Single side	H. Both sides, V. Single side	H. Both sides, V. Single side
Accuracy	5"	5"	5"
Unit of angle	Deg / mil / gon / V%	Deg / mil / gon / V%	Deg / mil / gon / V%
Display	LCD both sides	LCD both sides	LCD both sides

Tilt Sensor

Automatic Compensation	Yes	Yes	Yes
Range of Compensation	+/-3'	+/-3'	+/-3'

Plummet

Plummet Type	Optical	Laser	Optical
Magnification	3X	-	3X
Field of view	5°	-	5°
Focusing range	20 in to infinity (0.5 m to infinity)	-	20 in to infinity (0.5 m to infinity)
Reticle type	Crosshair	-	Crosshair
Laser power		≤ 1mW	
Facular diameter		≤ 2mm	
Centering precision		1.5mm (instru. height 1.5m)	

Level Vial Sensitivity

Plate vial	30" per 2 mm	30" per 2 mm	30" per 2 mm
Circular vial	8' per 2 mm	8' per 2 mm	8' per 2 mm

Operating Range

Operating voltage, typical	4.8 VDC	4.8 VDC	4.8 VDC
Batteries	4 x 1.5V (AA)/Rechrg Ni-MH	4 x 1.5V (AA)/Rechrg Ni-MH	4 x 1.5V (AA)/Rechrg Ni-MH
Operating Temperature range	-4 °F to +122 °F (-20 °C to +50 °C)	-4 °F to +122 °F (-20 °C to +50 °C)	-4 °F to +122 °F (-20 °C to +50 °C)
Waterproof class	IP 54	IP 54	IP 54
Weight	10.2 lb (4.6 kg)	10.2 lb (4.6 kg)	10.2 lb (4.6 kg)
Dimensions	6.5 x 6.1 x 13.4 in (164 x 154 x 340 mm)	6.5 x 6.1 x 13.4 in (164 x 154 x 340 mm)	6.5 x 6.1 x 13.4 in (164 x 154 x 340 mm)

Nobody Helps You Build Better... since 1895

David White®