



Usage and Scope of Application of the Instrument :

This series of electronic theodolite adopts the photoelectric incremental angle measuring system. They integrate optical, mechanical, electronic and computer technologies all in one, realizing a variety of functions including angle measurement, display and storage. They can also display horizontal and vertical angles and realize conversion from vertical angle to gradient and compensation of vertical angle. The precision of angle measurement is 5".

This series of electronic theodolite find wide applications in the Grade III and Grade IV triangle control measurement in national and urban projects, including engineering measurement in railway, highway, bridge, water conservancy, mining projects, etc. It can be also used in various engineering in construction, erection of large equipment and land register and topographic survey and various kinds of engineering measurement.



GT-116		
Technical Parameter		5"
Telescope	Image	Erect
	Magnification Ratio	30X
	Effective Aperture of Object Lens	45mm
	Angle of View	1°30'
	Shortest Visibility Distance	1.35m
	Stadia Multiplication Constant	100
	Stadia Addition Constant	0
	Resolution	3"
Angle Measuring System	Mode of Angle Measurement	Photoelectric Incremental Reading
	Min. Reading	1" 5"
	Detection Method	H: Both Sides V: Single Side
	Precision of Angle Measurement	5"
	Unit of Angle	DEG MIL GON
	Display	Both
Laser plummet	Accuracy	≤ 1.0mm / 1.5m
	Laser spot size	Adjustable
	Laser class	Class 2
	Focusing Range	0.5m ~ ∞
Sensitivity of vial	tubular vial	30"/2mm
	circular vial	8"/2mm
Ambient Temperature		-20°C ~ +50 °C
Power Supply	Battery	Alkaline battery Rechargeable Ni-H Battery
	Source Voltage	4.8V
	Duration of Operation	Alkaline battery 36h
Weight of Instrument		4.6kg
Dimensions		164×154×340mm

