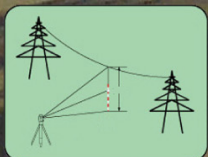


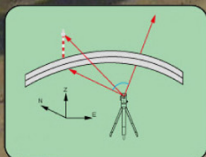
# MATO

SURVEYING INSTRUMENTS

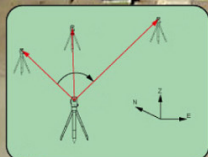
## TOTAL STATION MTS800 SERIES



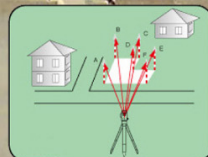
Remote elevation measurement



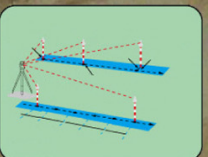
Coordinate measurement



Resection measurement



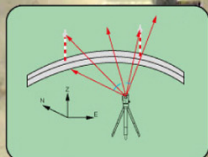
Area calculation



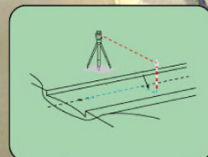
Line stake-out



Missing line measurement



Coordinate stake-out



Road design Customization

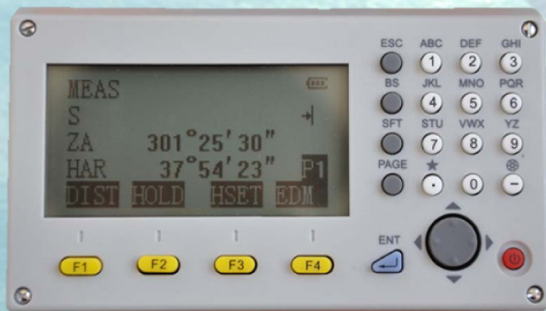
- Equipped with absolutely encoding system.
- Fast speed distance measure.
- Extended internal memory (max. 5000points).
- High accuracy & long distance measuring range.
- Complete application programs.
- Convenient data management system.
- Long-time working battery.
- Reflectorless model MTS801R/802R/805R also available.
- None prism maximum measuring distance: 350m.

1\* Good weather conditions: No haze, visibility about 40km, overcast, no scintillation.

2\* When performing reflectorless measurement, the possible measurement range and precision will change on the target reflection factor, weather conditions and location conditions.

3\* Reflective sheet standard: Kodak gray card, 90% reflective, and object in shade, or sky overcast, no scintillation.

4\* with adapter from SD card to USB port.



**Model No.:** MTS-801/802/805 MTS-801R/802R/805R

**Telescope**

Image	Errect
Magnification	30X
Effective aperture	45mm
Field of view	1° 30'
Minimum focus distance	1.5m

**Distance measurement**

(under good weather condition) 1\*

1P	3.5km	3.5km
3P	5.0km	/
Reflectorless 2*	/	500m
Reflective sheet 3*	/	800m
Accuracy	With reflector: 2mm+2ppmxD Without reflector: 3mm+2ppmxD	

Minimum display	1mm
Distance unit	ft. or m selectable

**Measuring speed**

Fine measurement:	1.8sec. (first time 2.5sec.)
Rapid measurement:	0.9sec. (first time 2.5sec.)
Tracking measurement:	0.4sec. (first time 2.5sec.)
Maximum display	999999.999m
Atmospheric correction	manual input or auto correction
Temperature	°C or F
Atmospheric pressure	manual input or auto correction
Atmospheric deflection & earth curvature correction	on(k=0.14/0.20)/off

**Angle measurement**

measurement method	Absolutely Encoding	
Accuracy	1"/ 2"/ 5"	1"/2" /5"
Minimum reading	1"/5"/10"	
Plate level	30"/2mm	
Circular level	8'/ 2mm	
Compensator	dual axis tilt sensor, working range: ±6'	
Resolution	1"	
Plummet	laser plummet/optical plummet	
Display	double side LCD display	
Data port	RS-232/SD card*	
Memory points	50000 points	
Power	rechargeable battery pack	
Operating hours	about 8 hours	
Working temperature	-20°C ~ +50°C	
Weight	5.4kg	

- Application programme:
- Remote elevation measurement
  - Coordinate measurement
  - Resection measurement
  - Area calculation
  - Line stake-out
  - Missing line measurement
  - Coordinate stake-out
  - Road design Customization

Standard accessories: main unit, 2pcs rechargeable battery pack and 1pc charger, dust cover, tubular compass, instrument manual, plastic carrying case.

**Dealer Info.**