

SPECIFICATION

WTS-991R10 WinCE TOTAL STATION

TELESCOPE	
Length	154mm
Objective Lens Diameter	Telescope: 45mm EDM: 50mm
Magnification	30X
Objective aperture	48mm
Image	Erect
Field of View	1°30'
Resolving Power	3"
Mini. Focus	1m
DISTANCE MEASUREMENT	
Single Prism	5000m
Non-Prism	1000m
Accuracy -Prism Mode	(1mm+1.5ppmxD)m.s.e.*3
-Non-Prism Mode	1-100m:±(2mm+2ppm x D)m.s.e. *3; 100-600m:±(3mm+2ppm x D)m.s.e.*3;600m-1000m:±(5mm+3ppmxD)m.s.e.*3
Measuring Time	Fine: 0.3s, Tracking: 0.1s
Atmospheric Correction	T-P Sensor, Auto Detect and Correct
Prism Constant	Manual Input, Auto Correction
ANGLE MEASUREMENT	
Method	Absolute Encoding
Detecting System	H: 2 sides, V: 2 sides
Min. Reading	0.1", 1", 0.5"selectable
Accuracy	1"
Diameter of Circle	79mm
Vertical Angle 0°	Zenith 0°/Horizontal: 0°
Unit	360°/400gon/6400mil
DISPLAY	
Size	3.5", 640*480
No.of Display	Color TFT LCD touch screen with LED backlit alphanumeric keyboard
Distance resolution	Fine/Rapid: 0.001m Tracking: 0.01m
Keyboard	Alphanumeric
TILT CORRECTION	
Tilt Sensor	Quadruple Axis Compensations
Method	Liquid Electric
Range	±6'
Setting unit	1"
LEVEL SENSITIVITY	
Plate Level	30"/2mm
Circular Level	8'/2mm
OPTICAL PLUMMET (OPTIONAL: INTERNAL LASER PLUMMET)	
Image	Erect
Magnification	3X
Focusing Range	0.5m ~ ∞
Field of View	5°
Accuracy (if laser plummet)	1.5mm at 1.5 InsHT
System	
Operation System	Windows CE7.0
Protection lock	accessible with PIN code to protect data
Bluetooth	Bluetooth 2.0 with working range 10m
Memroy	2GB, 120000 Points Internal & 32GB External
Data Interface	RS232C/SD card/Mini USB
GENERAL	
Laser pointer	Coaxial red laser
Laser Class ⁵ EDM Reflector less	Class 2
Sheet/Prism mode	Class 1
Exterior material	Water soluble anti-corrosive Acrylic orange paint
Working Temperature	-20°C ~ +55°C
Battery Type	Detachable Rechargeable Lithium Battery 6400 hours battery life
Battery Voltage	DC 7.4V, 3400mAh
Working Time	12 Hours Distance & 20 Hours Angle
Water & Dust Proof	IP66

*1. Good condition: No haze, visibility about 40km, overcast, no scintillation. *2. With Kodak Grey Card white side (90% reflectivity). *3. D stands for distance. *4. Typically, under good condition, non-prism measuring time may differ according to measuring target, observation situations, and environmental conditions. *5. According to FDA21 CFR Ch. I §.1040.

STANDARD PACKAGE COMPONENTS

- | | |
|--------------------|-----------------------|
| Carrying Case X 1 | Screw Driver X 1 |
| Charger X 1 | Wiping Cloth X 1 |
| Battery X 2 | Lens Cover X 1 |
| Rain Cover X 1 | SD-Card X 1 |
| Mini USB Cable X 1 | Allen Key X2 |
| Carrying Belt X 2 | User Manual X 1 |
| Plumb X 1 | Warranty Card X 1 |
| Adjusting Pin X 2 | Reflecting Sheet X 1 |
| USB Stick 8GB X 1 | Stylus X 2 |
| | Measuring Tape 3m X 1 |

OPTIONAL ACCESSORIES



IEC Standard Compliance

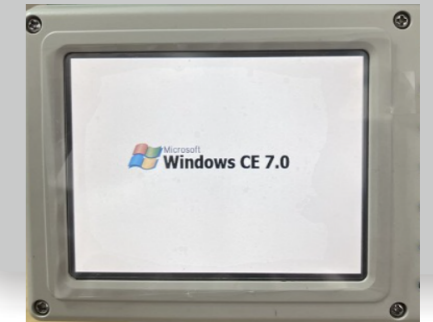
ISO 14001:2015

ISO 45001:2018

***MicroSurvey FIELDGenius (Optional Software)**

ISO 9001:2015

WTS-991R10 SERIES WinCE Total Stations



ASI ROBUST
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