Trimble RTS655 Robotic Total Station

Accuracy for Everyday Applications
With the Trimble RTS655 Robotic Total Station, contractors can improve efficiency and accuracy for common layout tasks in building construction.

Key Features:
- **MagDrive technology** for maximum speed and efficiency
- **MultiTrack technology** offers the choice between passive and active tracking
- **Quickly mark layout points with Class 3 laser Pointer**

**UNSURPASSED TOTAL STATION TECHNOLOGY**
- Trimble MagDrive™ Servo Technology provides exceptional speed and accuracy with smooth, silent operation.
- Trimble SurePoint™ Technology ensures accurate measurements by automatically correcting for unwanted movement due to wind, sinkage, and other factors.
- Trimble MultiTrack™ technology locks on and tracks passive prisms for control measurements and active targets for dynamic measurement, stakeout and grade control.

**BUILT FOR CONSTRUCTION**
For construction applications, you need a measurement solution with optimal speed, accuracy and reliability. Combine the Trimble DR HP Precision EDM with Trimble VISION and you have the flexibility to tackle the most demanding projects.

- Visually mark points, with high precision, using the Class 3R Laser Pointer.
- **Automatic Servo Focus** sets the optical focus for quick manual aiming when laying out points in DR mode.
- Combine with Trimble Field Link software running on the Trimble Field Tablet to optimize your accuracy and productivity.

<table>
<thead>
<tr>
<th>EDM</th>
<th>Serve Control</th>
<th>Angle Accuracy</th>
<th>Hardware Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR</td>
<td>Robotic, Autolock</td>
<td>5&quot;</td>
<td>Trimble VISION</td>
</tr>
</tbody>
</table>

Provided by Xpert Survey Equipment
Click Trimble RTS655 for Product Info and Updated Pricing
### GENERAL SPECIFICATIONS

**PERFORMANCE**

- **Tribrach/Prism:** Servo-driven, endless fine adjustment
- **Method:** Laser diode 660 nm; Laser class 1

#### Lateral and Angular Accuracy

<table>
<thead>
<tr>
<th>Typical Distance</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 m (164 ft)</td>
<td>±5.4' (±100 mgon)</td>
</tr>
<tr>
<td>100 m (328 ft)</td>
<td>±2.7' (±50 mgon)</td>
</tr>
<tr>
<td>200 m (656 ft)</td>
<td>±1.3' (±25 mgon)</td>
</tr>
<tr>
<td>300 m (984 ft)</td>
<td>±0.03' (±0.6 mgon)</td>
</tr>
</tbody>
</table>

**Lighting and Background Light**

- **Standard Clear:** Haze. Overcast or moderate sunlight with very light heat shimmer.
- **Normal:** Good lighting, moderate heat shimmer.
- **Difficult:** Haze, object in direct sunlight.

**AutoLock & Robotic Range**

<table>
<thead>
<tr>
<th>Range</th>
<th>Omitted Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 m</td>
<td>≤3.0' (≤60 mgon)</td>
</tr>
<tr>
<td>18 m</td>
<td>≤2.0' (≤40 mgon)</td>
</tr>
<tr>
<td>25 m</td>
<td>≤1.5' (≤30 mgon)</td>
</tr>
<tr>
<td>180 m</td>
<td>≤0.5' (≤10 mgon)</td>
</tr>
</tbody>
</table>

**Tracking**

- **Standard:**<br>Internal battery: 3-5 hours<br>Autolock: 17 hours<br>Trimble CU controller: 4-6 hours<br>Robotic holder: 5-7 hours<br>Three batteries in multi-battery adapter: 15 hours<br>One internal battery: 1.5-2 hours<br>Three internal batteries in multi-battery adapter: 2-2.5 hours<br>One battery: 0.5-1 hour

**Centering System**

- Circular level in tribrach: 4'/0.007 ft

**Magnification**

- **Trimble 3-pin:** 30×
- **Optic (redundant dual-axis servo/angle sensor):** 60×

**Circular Level**

- 200 m (656 ft): 0.0007 ft/m

**Internal Battery**

- Rechargeable Li-Ion battery 11.1 V, 5.0 Ah

**Data Storage**

- USB, Serial, Bluetooth

**Security**

- Dual-layer password protection

**Service**

- Trimble Authorized Distribution Partner

**Specifications**

- Subject to change without notice.

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1. Standard clear: No haze, overcast or moderate sunlight with very light heat shimmer.
2. Range and accuracy depend on atmospheric conditions, size of prisms and background radiation.
4. The capacity in −20 °C (−6 °F) is 75% of the capacity at +20 °C (68 °F).
5. Bluetooth type approvals are country-specific.
6. Contact your local Trimble Authorized Distribution Partner for more information.

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