Trimble RTS673
ROBOTIC TOTAL STATION

ACCURACY FOR EVERYDAY APPLICATIONS

With the Trimble® RTS673 Robotic Total Station contractors can improve efficiency and accuracy for common layout tasks in building construction.

For Everyday Layout
Automate building layout tasks with total confidence. The Trimble RTS673 streamlines layout of sleeves, hangers, stub-up, anchor bolts, concrete forms, utilities, or cable trays. Versatile enough for light topographic projects and as-built data collection, the RTS673 can handle almost any challenge on the job site.

UNSURPASSED TOTAL STATION TECHNOLOGY

Trimble MagDrive™ Servo Technology provides for 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. With the Trimble DR HP Precision EDM you have the flexibility to tackle the most demanding projects.

Visually mark points, with high precision, using the Class 2 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.

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 2 laser Pointer
- Lock onto your target faster in robotic mode with Track-Light technology

TRANSFORMING THE WAY THE WORLD WORKS
## PERFORMANCE

<table>
<thead>
<tr>
<th>Angle measurement accuracy (standard deviation)</th>
<th>3&quot; (0.9 mgon)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle display (least count)</td>
<td>0.1&quot; (0.01 mgon)</td>
</tr>
<tr>
<td>Distance measurement</td>
<td>0.1&quot; (0.01 mgon)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Typical Accuracy</th>
<th>50 m (164 ft)</th>
<th>100 m (328 ft)</th>
<th>200 m (656 ft)</th>
<th>300 m (984 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prism mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>2 mm (5/64&quot;)</td>
<td>3 mm (1/8&quot;)</td>
<td>4 mm (5/32&quot;)</td>
<td>6 mm (15/64&quot;)</td>
</tr>
<tr>
<td>Tracking</td>
<td>5 mm (13/64&quot;)</td>
<td>5 mm (13/64&quot;)</td>
<td>6 mm (15/64&quot;)</td>
<td>8 mm (15/64&quot;)</td>
</tr>
<tr>
<td>DR mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>3 mm (1/8&quot;)</td>
<td>4 mm (5/32&quot;)</td>
<td>5 mm (13/64&quot;)</td>
<td>6 mm (5/64&quot;)</td>
</tr>
<tr>
<td>Tracking</td>
<td>10 mm (25/64&quot;)</td>
<td>10 mm (25/64&quot;)</td>
<td>11 mm (7/16&quot;)</td>
<td>12 mm (5/32&quot;)</td>
</tr>
</tbody>
</table>

Measuring time
- **Prism mode**
  - Standard: 2.5 s per measurement
  - Tracking: 0.4 s
- **DR mode**
  - Standard: 3–15 s
  - Tracking: 0.4 s

Range (under standard clear conditions)
- **Prism mode**
  - Prism: 3,000 m (9,800 ft)
  - Shortest range: 1.5 m (4.9 ft)
- **DR mode**
  - Prism: 10 mm (25/64")
  - Shortest range: 1.5 m (4.9 ft)

### EDM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Good (90% reflective)</th>
<th>150 m (492 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal (moderate sunlight)</td>
<td>150 m (492 ft)</td>
</tr>
<tr>
<td>Difficult (heat shimmer)</td>
<td>70 m (229 ft)</td>
</tr>
<tr>
<td>White card</td>
<td>&gt;150 m (492 ft)</td>
</tr>
<tr>
<td>Gray card</td>
<td>&gt;120 m (394 ft)</td>
</tr>
</tbody>
</table>

### ATMOSPHERIC CORRECTION

- Atmospheric correction: 130 ppm to 160 ppm continuously

### POWER SUPPLY

- **Internal battery**: Rechargeable Li-ion battery 10.8 V, 65 Ah, 70Wh
- **Operating time**
  - One internal battery: Approx. 6.5 hours
  - Three internal batteries: Approx. 18 hours
  - Robotic holder with one internal battery: Approx. 13.5 hours
  - Operating time with video robotic
  - One battery: 5.5 hours
  - Three batteries in multi-battery adapter: 17 hours

### RANGE

- **Weight**
  - Instrument (AutoLock): 5.15 kg (11.5 lb)
  - Instrument (Robotic): 5.25 kg (11.5 lb)
  - Trimmer CU controller: 0.4 kg (0.88 lb)
  - Trimmer: 0.7 kg (1.54 lb)
  - Internal battery: 0.35 kg (0.77 lb)

### ROBOTIC RANGE

- **Autolock and Robotic range**
  - 500–700 m (1,640–2,297 ft)
- **Trimble MultiTrack Target**
  - 800 m (2,625 ft)
- **Autolock pointing precision at 200 m (656 ft)**
  - Passive prisms: <2 mm (0.007 ft)
  - Trimble MultiTrack Target: <2 mm (0.007 ft)

### CONTACT INFO

Contact your local Trimble Authorized Distribution Partner for more information.