Advanced Technology for Construction layout

Eliminate the guesswork. With its bright, autofocusing green laser, the RTS873 heightens layout precision on the jobsite.

**A Smarter Pointer**

Trimble's innovative green laser technology provides the ability to direct laser with live video images on the Trimble Field Tablet, maximizing your command of the job.

**GREEN LASER POINTER**

Improve layout accuracy and speed of DR layout. The RTS873 autofocusing green beam optimizes visibility of placement points at all distances.

**UNEVEN SURFACE CORRECTION**

Combined with Trimble Field Link running on the tablet, this system will compensate for uneven floors and ceilings to ensure positioning accuracy.

**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 Auto-focusing Class 2 Green 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.

**MagDrive technology** for maximum speed and efficiency

**MultiTrack technology** offers the choice between passive and active tracking

**Visual verification** with data overlay and photo documentation

Provided by Xpert Survey Equipment
Click Trimble RTS873 for Product Info and Updated Pricing
## GENERAL SPECIFICATIONS

### PERFORMANCE

<table>
<thead>
<tr>
<th>Distance Measurement</th>
<th>Typical Accuracy</th>
<th>DR mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 60 m (197 ft)</td>
<td>±(2 + 2 ppm)</td>
<td>±(2 + 2 ppm)</td>
</tr>
<tr>
<td>&gt; 60 m (200 ft)</td>
<td>±(3 + 4 ppm)</td>
<td>±(3 + 4 ppm)</td>
</tr>
</tbody>
</table>

### EDM SPECIFICATIONS

- **Light source**: Laser diode 660 nm; Laser class 1
- **Laser pointer coaxial (standard)**: Auto focusing green laser class 2
- **Beam divergence Prism mode**: Horizontal: 4 cm/100 m (0.13 ft/328 ft) Vertical: 4 cm/100 m (0.13 ft/328 ft)
- **Beam divergence DR mode**: Auto focusing
- **Atmospheric correction**: -130 ppm to 160 ppm continuously

### CAMERA

- **Chip**: Color Digital Image Sensor
- **Focal length**: 23 mm
- **Depth of field**: 3 m to infinity
- **Field of view**: 15.5 deg x 12.3 deg
- **Digital zoom**: 4-step (1x, 2x, 4x, 8x)
- **Video streaming**: 5 frames/sec

### RANGE

- **Standard**: Prism mode
  - 1 prism: 3,000 m (9,800 ft)
  - Shortest range: 1.5 m (4.9 ft)
- **Tracking**: Standard
  - Average laser reach: 2.5 s per measurement

### POWER

- **Internal battery**: Rechargeable Li-ion battery 11.1 V, 5.0 Ah
- **Operating time**:
  - One internal battery: Approx. 6.5 hours
  - Three internal batteries in multi-battery adapter: Approx. 18 hours
- **Robotic holder with one internal battery**: 13.5 hours
  - One battery: 5.5 hours
  - Three batteries in multi-battery adapter: 17 hours

### ROBOTIC RANGE

- **Autolock and Robotic range**:
  - Passive prisms: 500–700 m (1,640–2,297 ft)
  - Trimble MultiTrack Target: 800 m (2,625 ft)
  - Trimble CU controller: 0.4 kg (0.88 lb)
  - Autolock pointing precision: ±5 mm (0.20 in)
  - Trimble MultiTrack Target: ±2 mm (0.007 ft)

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Servo system</strong></td>
<td>Center axis in neural, Automatic level compensation</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>2048 x 1536 pixels</td>
</tr>
<tr>
<td><strong>Focus length</strong></td>
<td>23 mm</td>
</tr>
<tr>
<td><strong>Digital zoom</strong></td>
<td>4-step (1x, 2x, 4x, 8x)</td>
</tr>
<tr>
<td><strong>Video streaming</strong></td>
<td>5 frames/sec</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Rechargeable Li-ion battery 11.1 V, 5.0 Ah</td>
</tr>
</tbody>
</table>

1. Standard clear: No haze. Overcast or moderate sunlight with very light heat shimmer
2. Range and accuracy depend on atmospheric conditions, size of prism and background radiation.
4. The capacity in ~20°C (68°F) is 75% of the capacity at ~30°C (86°F).
5. Bluetooth type approvals are country specific. Contact your local Trimble Authorized Distribution Partner for more information.
6. Dependent on selected size of search window.