**Trimble RTS873**

**ROBOTIC TOTAL STATION**

**ADVANCED TECHNOLOGY FOR CONSTRUCTION LAYOUT**

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

**100% Robotic Operation**

Trimble® VISION™ provides you with the ability to direct layout with live video images on the Trimble Field Tablet, maximizing your command of the job.

**Visual Verification**

To provide an accurate documentation of the design and field image that is displayed within the Trimble Field Link software, job data including points and linework are overlaid on the camera image.

**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.

**Key Features**

- A Smarter Pointer with bright green, autofocusing laser and auto-correction for uneven surfaces
- Trimble VISION video-assisted robotic measurement
- Visual verification with data overlay and photo documentation
- MagDrive technology for maximum speed and efficiency
- MultiTrack technology offers the choice between passive and active tracking
DATASHEET

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PERFORMANCE

Angle measurement accuracy (standard deviation)

Based on DIN 18723

3” (0.9 Mgon)

Typical accuracy: 0.1” (0.001 Mgon)

Characteristics:

<table>
<thead>
<tr>
<th>Range (under standard clear conditions)</th>
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<tbody>
<tr>
<td>Laser pointer coaxial (standard) ......... Autofocusing green laser class 2</td>
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Chip: Color Digital Image Sensor

CAMERA

Light source: Laserdiode 660 nm; Laser class 1 in Prism mode

Laser pointer coaxial (standard): Autofocusing 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: Autofocusing

Atmospheric correction: –100 ppm to 160 ppm continuously

EDM SPECIFICATIONS

Light source: Laserdiode 660 nm; Laser class 1 in Prism mode

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CREDITS

Trimble MEP
116 Inverness Drive East, Suite 210
Englewood, CO 80112
Phone: 1-800-234-3758

Specifications subject to change without notice.

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 ºC (–5 ºF) is 75% of the capacity at +20 ºC (68 ºF).
5. Dependent on selected size of search window.

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