Trimble S9/S9 HP
TOTAL STATION

PERFORMANCE AND PRECISION
The Trimble® S9 total stations integrate the best field technologies plus our highest level of accuracy and specialized engineering features for the ultimate in performance and precision. You can combine scanning, imaging and surveying into one solution, or focus on the highest level of accuracy with options such as LongRange FineLock™ and our Trimble DR High Precision (HP) EDM for applications where precision is priority. Back in the office, trust our powerful Trimble Business Center and Trimble 4D office software to help you process and analyze your data.

Specialized for Engineering Applications
The Trimble S9 total station is built for specialized applications such as monitoring and tunneling, where you need a solution with optimal speed, accuracy and reliability. Combine the Trimble DR HP EDM in the S9 HP with your choice of 1" or 0.5" angular accuracies and Long Range FineLock and you have the flexibility to tackle the most demanding projects.

Trimble DR Plus and DR HP EDM
Trimble DR Plus range measurement technology provides extended range of Direct Reflex measurement without a prism to exceptionally long distances, while the DR HP EDM in the S9 HP offers higher accuracy when measuring to prisms. Trimble's high performance EDMs, combined with the smooth and frictionless drive capabilities of MagDrive™ servo technology, creates unmatched capability for quick measurements, without compromising on accuracy.

Advanced Engineering Features
Additional engineering-specific features in the Trimble S9 total stations include Trimble FineLock technology and the 3R laser pointer. Trimble FineLock detects targets without interference from surrounding prisms for high precision applications in close quarters. The Trimble LongRange FineLock option extends this functionality. With the Class 3R laser pointer in the Trimble S9 HP, you can visually mark points at greater range in tunnels or underground mines.

KEY FEATURES
- Available 0.5” or 1” angle accuracy
- Trimble DR Plus or HP EDM for optimal speed, accuracy and reliability
- Optional Trimble VISION and SureScan technology
- Trimble L2P real-time equipment management
- Intuitive Trimble Access Field Software
- Trimble Business Center Office Software for quick data processing
- Trimble 4D Control for monitoring management

Manage Your Assets 24/7
Know where your total stations are 24 hours a day with Trimble L2P technology. See where your equipment is at any given time and get alerts if your instrument leaves a job site or experiences unexpected equipment shock or abuse.

Trimble AllTrak™ software lets you view usage and keep up-to-date on firmware, software and maintenance requirements. With Trimble L2P and AllTrak, you can rest assured knowing your equipment is up-to-date and where it should be.

Trimble VISION and SureScan Technology
The Trimble S9 comes with optional Trimble VISION™ and SureScan technology. The improved Trimble VISION gives you the power direct your survey with live video images on the controller as well as create a wide variety of deliverables from collected imagery. Trimble SureScan in the S9 total station provides the flexibility to perform feature-rich scans every day, without the complexity of setting up a separate scanning system or switching to specialized field software. SureScan ensures that you have even coverage and get the most efficiency from your scanning.

Powerful Field and Office Software
Trimble controllers and our specialized modules in Trimble Access™ field software such as Tunnels, Monitoring, Pipelines and Mines provide dedicated workflows to help you get the job done faster. Trimble Access workflows can also be customized to fit your needs.

In the office, use Trimble Business Center to help you check, process and adjust your data in one software solution. Trimble 4D Control™ office software provides a comprehensive solution for the management of monitoring projects—both real time and post-processed—to rapidly detect critical structural movements.
**Measurement Range**

Automatic level compensator

**Display (least count)**: 0.1" (0.01 mgon)

**Accuracy (RMSE)**

**Scanning**

Sensor type: Absolute encoder with diametrical reading

**Angle measurement**

Type: Centered dual-axis

Accuracy (Standard deviation based on DIN 18723): 0.5" (0.15 mgon) or 1" (0.3 mgon)

**Accuracy (ISO)**

**Distance measurement**

- **Range**
  - 10 mm + 2 ppm (0.033 ft + 2 ppm)
  - 1 mm + 2 ppm (0.003 ft + 2 ppm)

- **Standard deviation**
  - 1.5 mm @ ≤150 m (0.0049 ft @ ≤492 ft)

- **Minimum point spacing**
  - 10 mm (0.032 ft)

- **Single 3D point accuracy**
  - 10 mm @ ≤150 m (0.0032 ft @ ≤492 ft)

**Speed**

- up to 15 points/sec

**Tracking**

- 0.4 s

**Standard**

- 1.2 s

**DR Extended Range Mode**

- Prism mode (under standard clear conditions)
  - 2 mm + 2 ppm (0.0065 ft + 2 ppm)
  - 2 mm + 2 ppm (0.0065 ft + 2 ppm)
  - 4 mm + 2 ppm (0.013 ft + 2 ppm)
  - 1.5 mm + 2 ppm (0.0049 ft + 2 ppm)

- Standard
  - 2 mm + 2 ppm (0.0065 ft + 2 ppm)
  - 2 mm + 2 ppm (0.0065 ft + 2 ppm)
  - 4 mm + 2 ppm (0.013 ft + 2 ppm)
  - 1.5 mm + 2 ppm (0.0049 ft + 2 ppm)

- Standard1
  - 1 mm + 2 ppm (0.003 ft + 2 ppm)
  - 1 mm + 2 ppm (0.003 ft + 2 ppm)
  - 1 mm + 2 ppm (0.003 ft + 2 ppm)
  - 1 mm + 2 ppm (0.003 ft + 2 ppm)

**Shortest range**

- 0.2 m (0.65 ft)

**Prism Long Range mode**

- 5,500 m (18,044 ft) (max. range)
  - 550 m (1,804 ft)

**Reflective foil 20 mm**

- 1000 m (3280 ft)

**Shortest possible range**

- 1 m (3.28 ft)

**White Card (90% reflective)**

- 1000 m (3280 ft)

**Reflective foil 10 mm**

- 2200 m

**White Card (90% reflective)**

- 2200 m

**Scanning**

- 2 mm (0.032 ft)

**Angle measurement**

Type: Centered dual-axis

Accuracy (Standard deviation based on DIN 18723): 0.5" (0.15 mgon) or 1" (0.3 mgon)

**Accuracy (ISO)**

**Distance measurement**

- **Range**
  - 10 mm + 2 ppm (0.033 ft + 2 ppm)
  - 1 mm + 2 ppm (0.003 ft + 2 ppm)

- **Standard deviation**
  - 1.5 mm @ ≤150 m (0.0049 ft @ ≤492 ft)

- **Minimum point spacing**
  - 10 mm (0.032 ft)

- **Single 3D point accuracy**
  - 10 mm @ ≤150 m (0.0032 ft @ ≤492 ft)

**Performance (DR Plus)**

- **Angle measurement**
  - Sensor type: Absolute encoder with diametrical reading
  - Accuracy (Standard deviation based on DIN 18723): 0.5" (0.15 mgon) or 1" (0.3 mgon)
  - Automatic level compensator
  - Type: Centered dual-axis
  - Accuracy (Standard deviation based on DIN 18723): 0.5" (0.15 mgon) or 1" (0.3 mgon)
  - **Distance measurement**
  - **Range**
    - 10 mm + 2 ppm (0.033 ft + 2 ppm)
    - 1 mm + 2 ppm (0.003 ft + 2 ppm)
  - **Standard deviation**
    - 1.5 mm @ ≤150 m (0.0049 ft @ ≤492 ft)
  - **Minimum point spacing**
    - 10 mm (0.032 ft)
  - **Single 3D point accuracy**
    - 10 mm @ ≤150 m (0.0032 ft @ ≤492 ft)

**Trimble S9 and S9 HP Configurations**

<table>
<thead>
<tr>
<th>EDM</th>
<th>Accuracy</th>
<th>Serve</th>
<th>Trimble VISION</th>
<th>Sure Scan</th>
<th>FineLock</th>
<th>Long Range</th>
<th>FineLock</th>
<th>3R Laser Pointer</th>
<th>TrackLight</th>
</tr>
</thead>
<tbody>
<tr>
<td>S9</td>
<td>DR Plus</td>
<td>0.5&quot;</td>
<td>Robotic</td>
<td>Yes</td>
<td>Yes</td>
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<td>No</td>
<td>No</td>
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<tr>
<td></td>
<td>DR Plus</td>
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<td>Robotic</td>
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<td>Yes</td>
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<tr>
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<td>DR Plus</td>
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<td>Robotic</td>
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<td>No</td>
<td>Yes</td>
<td>No</td>
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<tr>
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<td>DR Plus</td>
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<td></td>
<td>DR HP</td>
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<td>Robotic</td>
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<td>DR HP</td>
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<td>Yes</td>
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<tr>
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<td>Yes</td>
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</table>

**Performance (DR Plus)**

- **Angle measurement**
  - Sensor type: Absolute encoder with diametrical reading
  - Accuracy (Standard deviation based on DIN 18723): 0.5" (0.15 mgon) or 1" (0.3 mgon)
  - Automatic level compensator
  - Type: Centered dual-axis
  - Accuracy (Standard deviation based on DIN 18723): 0.5" (0.15 mgon) or 1" (0.3 mgon)

- **Distance measurement**
  - **Range**
    - 10 mm + 2 ppm (0.033 ft + 2 ppm)
    - 1 mm + 2 ppm (0.003 ft + 2 ppm)
  - **Standard deviation**
    - 1.5 mm @ ≤150 m (0.0049 ft @ ≤492 ft)
  - **Minimum point spacing**
    - 10 mm (0.032 ft)
  - **Single 3D point accuracy**
    - 10 mm @ ≤150 m (0.0032 ft @ ≤492 ft)

**Trimble S9 and S9 HP Configurations**

<table>
<thead>
<tr>
<th>EDM</th>
<th>Accuracy</th>
<th>Serve</th>
<th>Trimble VISION</th>
<th>Sure Scan</th>
<th>FineLock</th>
<th>Long Range</th>
<th>FineLock</th>
<th>3R Laser Pointer</th>
<th>TrackLight</th>
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<tbody>
<tr>
<td>S9</td>
<td>DR Plus</td>
<td>0.5&quot;</td>
<td>Robotic</td>
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<td>No</td>
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<tr>
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<td>DR Plus</td>
<td>0.5&quot;</td>
<td>Robotic</td>
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<td>Yes</td>
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<td>0.5&quot;</td>
<td>Robotic</td>
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<td>No</td>
<td>Yes</td>
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<td>DR Plus</td>
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<td>Robotic or Autolock</td>
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<td>Yes</td>
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<td>No</td>
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<tr>
<td></td>
<td>DR HP</td>
<td>0.5&quot;</td>
<td>Robotic</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<td>DR HP</td>
<td>0.5&quot;</td>
<td>Robotic</td>
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<td>No</td>
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<td>Yes</td>
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<tr>
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<td>DR HP</td>
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<td>Yes</td>
<td>No</td>
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<td>No</td>
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<tr>
<td></td>
<td>DR HP</td>
<td>1&quot;</td>
<td>Robotic or Autolock</td>
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<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<td>No</td>
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<tr>
<td></td>
<td>DR HP</td>
<td>1&quot;</td>
<td>Robotic or Autolock</td>
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<td>Yes</td>
<td>Yes</td>
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</table>
**EDM SPECIFICATIONS (DR PLUS)**

<table>
<thead>
<tr>
<th>Light source</th>
<th>Pulsed laserdiode 905 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam divergence Prism mode</td>
<td></td>
</tr>
<tr>
<td>Horizontal</td>
<td>0.4 cm/100 m (0.13 ft/328 ft)</td>
</tr>
<tr>
<td>Vertical</td>
<td>8 cm/100 m (0.26 ft/328 ft)</td>
</tr>
<tr>
<td>Beam divergence DR mode</td>
<td></td>
</tr>
<tr>
<td>Horizontal</td>
<td>0.4 cm/100 m (0.13 ft/328 ft)</td>
</tr>
<tr>
<td>Vertical</td>
<td>8 cm/100 m (0.26 ft/328 ft)</td>
</tr>
<tr>
<td>Atmospheric correction</td>
<td>–130 ppm to 160 ppm continuously</td>
</tr>
</tbody>
</table>

**PERFORMANCE (DR HP)**

**Angle measurement**

<table>
<thead>
<tr>
<th>Angle accuracy (Standard deviation based on DIN 18723)</th>
<th>0.5” (0.15 mgon) or 1” (0.3 mgon)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle display (least count)</td>
<td>0.1” (0.01 mgon)</td>
</tr>
</tbody>
</table>

**Distance measurement**

<table>
<thead>
<tr>
<th>Prism mode</th>
<th>Accuracy (ISO)</th>
<th>Accuracy (RMSE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>0.6 mm + 1 ppm (0.0026 ft +1 ppm)</td>
<td>1 mm + 1 ppm (0.003 ft +1 ppm)</td>
</tr>
<tr>
<td>Tracking</td>
<td>5 mm + 2 ppm (0.016 ft + 2 ppm)</td>
<td>3 mm + 2 ppm (0.01 ft + 2 ppm)</td>
</tr>
<tr>
<td>DR mode</td>
<td>10 mm + 2 ppm (0.032 ft + 2 ppm)</td>
<td></td>
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</tbody>
</table>

**Measuring time**

<table>
<thead>
<tr>
<th>Prism mode</th>
<th>Standard</th>
<th>Tracking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>2.5 s</td>
<td></td>
</tr>
<tr>
<td>Tracking</td>
<td>0.4 s</td>
<td></td>
</tr>
<tr>
<td>DR mode</td>
<td>3–15 s</td>
<td>0.4 s</td>
</tr>
</tbody>
</table>

**Range**

<table>
<thead>
<tr>
<th>Prism mode (under standard clear conditions<strong>4</strong>)</th>
<th>Standard</th>
<th>Tracking</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 prism</td>
<td>3,000 m (9,800 ft)</td>
<td></td>
</tr>
<tr>
<td>1 prism Long Range mode</td>
<td>5,000 m (16,400 ft)</td>
<td></td>
</tr>
<tr>
<td>3 prism Long Range mode</td>
<td>7,000 m (23,000 ft)</td>
<td></td>
</tr>
<tr>
<td>Shortest range</td>
<td>1.5 m (4.9 ft)</td>
<td></td>
</tr>
</tbody>
</table>

**EDM SPECIFICATIONS (DR HP)**

<table>
<thead>
<tr>
<th>Light source</th>
<th>Laserdiode 660 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam divergence</td>
<td></td>
</tr>
<tr>
<td>Horizontal</td>
<td>0.4 cm/100 m (0.13 ft/328 ft)</td>
</tr>
<tr>
<td>Vertical</td>
<td>0.4 cm/100 m (0.13 ft/328 ft)</td>
</tr>
</tbody>
</table>
SYSTEM SPECIFICATIONS

Leveling
Circular level in tribrach: 8'/2 mm (8'/0.007 ft)
Electronic 2-axis level in the LC-display: 0.3’’ (0.1 mgon)

Servo system
MagDrive servo technology: integrated servo/angle sensor electromagnetic direct drive

Rotation speed
115 degrees/sec (128 gon/sec)

Rotation time Face 1 to Face 2: 2.6 sec
Positioning speed 180 degrees (900 gon): 2.6 sec

Clamps and slow motions:
Servo-driven, endless fine adjustment

Centering
Centering system: Trimble 3-pin
Optical plummet: Built-in optical plummet

Magnification
circular level in tribrach: 8'/2 mm (8'/0.007 ft)
Leveling

Operating time for video robotic:

Autolock: 5.4 kg (11.35 lb)

Weight and Dimensions

Instrument (Robotic): 5.5 kg (11.57 lb)

Internal battery: 0.35 kg (0.77 lb)

Trimble 3-pin: 0.7 kg (1.54 lb)

Telescope
Magnification: 30x
Aperture: 40 mm (1.57 in)

Field of view at 100 m (328 ft): 2.6 m at 100 m (6.5 ft at 328 ft)
Focusing distance: 1.5 m (4.92 ft)–infinity

IFC: Individual focus control: Variable (10 steps)
Autofocus: Standard

Power supply

Internal battery: Rechargeable Li-Ion battery 11.1 V, 5.0 Ah
External power supply: 12 V only external

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
Operating time for video robotic:
One battery: 5.5 hours
Three batteries in multi-battery adapter: 17 hours

Weight and Dimensions

Instrument (Autolock): 5.4 kg (11.35 lb)
Instrument (Robotic): 5.5 kg (11.57 lb)
Trimble CU controller: 0.4 kg (0.88 lb)

Trinocular: 0.7 kg (1.54 lb)
Internal battery: 0.35 kg (0.77 lb)

Minimum spacing between prisms:
20 m–700 m (64 ft–2,297 ft)

Minimum spacing between prisms:
200 m (656 ft)

20 m–700 m (64 ft–2,297 ft)

GPS SEARCH/GEOLOCK

GPS Search/GeoLock: 360 degrees (400 gon)

Solution acquisition time: 15–30 sec
Target re-acquisition time: <3 sec

Range: Autolock & Robotic range limits

OTHER SPECIFICATIONS

Tracklight built in: Not available in all models
Operating temperature: –20 ºC to +50 ºC (–4 ºF to +122 ºF)
Dust and water proofing: IP65
Humidity: 100% condensing

Security: Dual-layer password protection, L2P10

Tracking rate: 0.2 Hz

Specifications subject to change without notice.

Contact your local Trimble Authorized Distribution Partner for more information.

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Trimble S9/S9 HP TOTAL STATION

AUTOLOCK AND ROBOTIC SURVEYING

PASSIVE PRISMS

Trimbis MultiTrack Target: 500 m–700 m (1,640–2,297 ft)
Trimbis ActiveTrack 360 Target (DR Plus EDM): 500 m (1,640 ft)
Trimbis ActiveTrack 360 Target (DR HP EDM): 100 m (328 ft)

Autofocus pointing precision at 200 m (656 ft) (Standard deviation): <2 mm (0.007 ft)

Passive prisms:

Minimum spacing between prisms:
200 m (656 ft)

Long Range FineLock (not available in all models):

Pointing precision at 2,500 m (8,200 ft) (standard deviation):
<30 mm (0.039 ft)

Range to passive prisms (min–max):
250 m–2,500 m (64 ft–8,200 ft)

Minimum spacing between prisms:
10 m (80 ft)

20 m–700 m (64 ft–2,297 ft)

GPS SEARCH/GEOLOCK

GPS Search/GeoLock: 360 degrees (400 gon)

Solution acquisition time: 15–30 sec
Target re-acquisition time: <3 sec

Range: Autolock & Robotic range limits

OTHER SPECIFICATIONS

Tracklight built in: Not available in all models
Operating temperature: –20 ºC to +50 ºC (–4 ºF to +122 ºF)
Dust and water proofing: IP65
Humidity: 100% condensing

Security: Dual-layer password protection, L2P10

Tracking rate: 0.2 Hz

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AUTOLOCK AND ROBOTIC SURVEYING

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Trimbis ActiveTrack 360 Target (DR HP EDM): 100 m (328 ft)

Autofocus pointing precision at 200 m (656 ft) (Standard deviation): <2 mm (0.007 ft)

Passive prisms:

Minimum spacing between prisms:
200 m (656 ft)

Long Range FineLock (not available in all models):

Pointing precision at 2,500 m (8,200 ft) (standard deviation):
<30 mm (0.039 ft)

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Specifications subject to change without notice.

Contact your local Trimble Authorized Distribution Partner for more information.

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Trimble S9/S9 HP TOTAL STATION

AUTOLOCK AND ROBOTIC SURVEYING

PASSIVE PRISMS

Trimbis MultiTrack Target: 500 m–700 m (1,640–2,297 ft)
Trimbis ActiveTrack 360 Target (DR Plus EDM): 500 m (1,640 ft)
Trimbis ActiveTrack 360 Target (DR HP EDM): 100 m (328 ft)

Autofocus pointing precision at 200 m (656 ft) (Standard deviation): <2 mm (0.007 ft)

Passive prisms:

Minimum spacing between prisms:
200 m (656 ft)

Long Range FineLock (not available in all models):

Pointing precision at 2,500 m (8,200 ft) (standard deviation):
<30 mm (0.039 ft)

Range to passive prisms (min–max):
250 m–2,500 m (64 ft–8,200 ft)

Minimum spacing between prisms:
10 m (80 ft)

20 m–700 m (64 ft–2,297 ft)

GPS SEARCH/GEOLOCK

GPS Search/GeoLock: 360 degrees (400 gon)

Solution acquisition time: 15–30 sec
Target re-acquisition time: <3 sec

Range: Autolock & Robotic range limits

OTHER SPECIFICATIONS

Tracklight built in: Not available in all models
Operating temperature: –20 ºC to +50 ºC (–4 ºF to +122 ºF)
Dust and water proofing: IP65
Humidity: 100% condensing

Security: Dual-layer password protection, L2P10

Tracking rate: 0.2 Hz

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