

An aerial photograph of a vast field of red poppies. A surveyor wearing a blue hard hat, a high-visibility yellow vest, and dark clothing is standing in the field, holding a clipboard. The field is densely packed with red flowers, and the surveyor is positioned on a slightly elevated path or ridge. The background shows more of the field stretching towards the horizon.

Trimble R10 GNSS System



Trimble R10

Productivity Beyond GNSS

- Trimble HD-GNSS
- Trimble SurePoint™
- Trimble xFill™
- Ergonomic Design

“Pair with Trimble Access and Trimble Business Center for the most powerful total solution on the market”



Integrated GNSS Portfolio



Trimble R10

Productivity Beyond GNSS



Trimble R8

Industry Leading Total GNSS Solution



Trimble R6

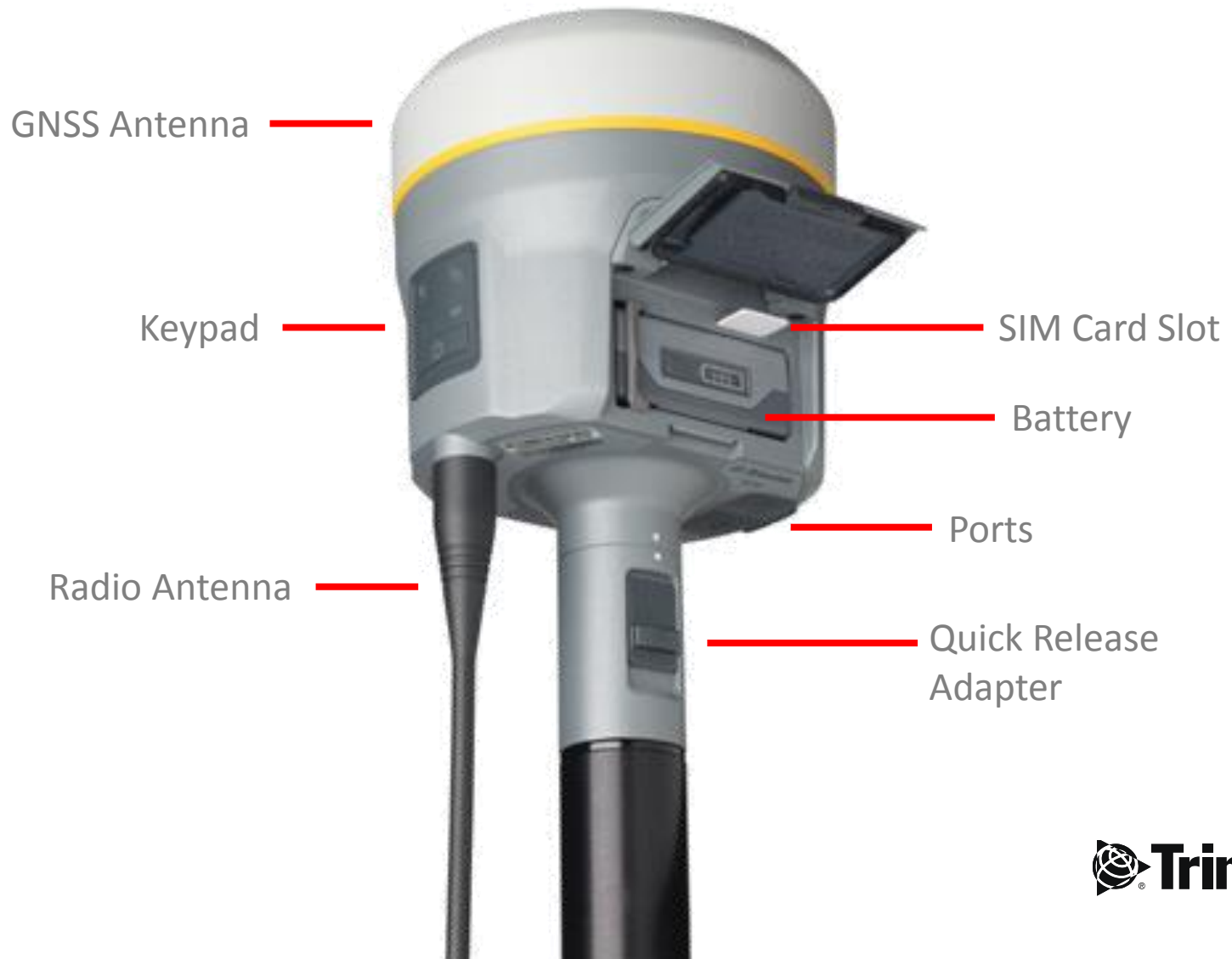
Scalable, Flexible, Ready for Anything



Trimble R4

Dependable When Every Point Counts

Trimble R10 Overview



Trimble R10 Overview



Trimble R10

Productivity Beyond GNSS

- Trimble HD-GNSS
- Trimble SurePoint™
- Trimble xFill™
- Trimble 360
- Ergonomic Design

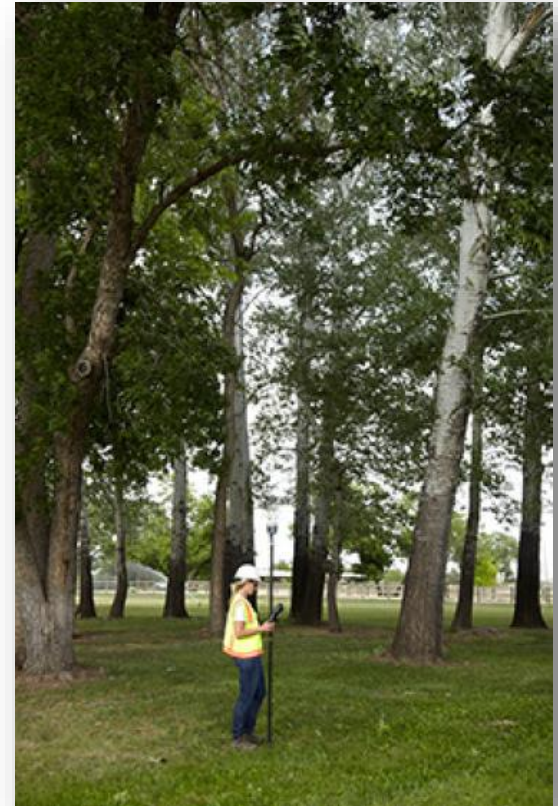
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Trimble HD-GNSS

The next-generation processing technology for precise GNSS positioning that surpasses the older fixed/float technique

- Precision-based measurements
- Start measuring sooner
- Shorter occupation times
- Measure with confidence in more challenging environments



Precision Based Measurements

- Weighted ambiguity resolution technique that surpasses the older fixed/float technique
- More accurate precision/error estimates than older GNSS technology
- Reduced convergence times
- Reduced occupation times
- Increased position and precision reliability especially in more challenging environments

RTK:Fixed H:0.010m V:0.014m RMS:015

(Trimble R8/R7/R6/R5/R4)

RTK H:0.008m V:0.010m




(Trimble R10)



Trimble Access Status Line

Horizontal Precision Estimate

Are the precision estimates within
the user-definable tolerance?
(default H: 15 mm / V: 20 mm)

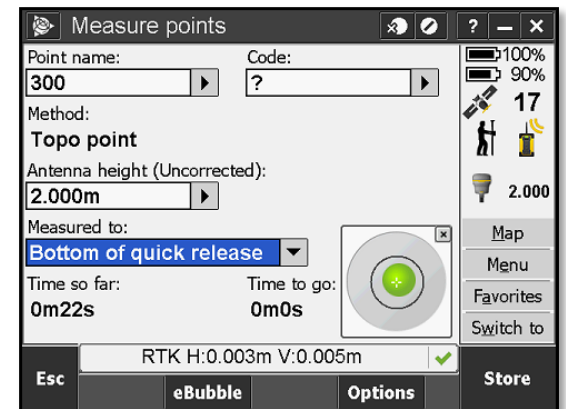
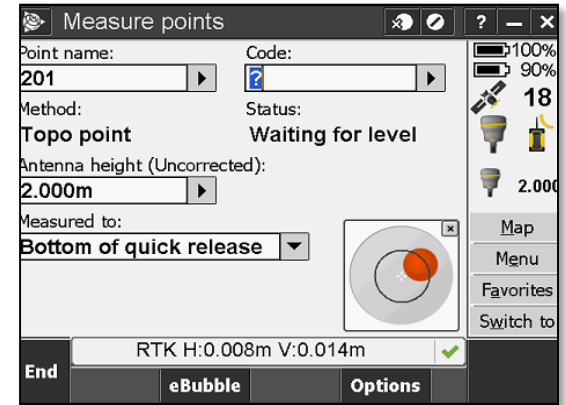
RTK H:0.008m V:0.010m 

Vertical Precision Estimate

Trimble SurePoint™

An integrated tilt sensor enables faster measurements, increased accuracy and greater quality control

- eBubble means all measurement information is in the same place
- Guards against erroneous measurements due to pole tilt
- Measure faster with automatic point measurement/storage
- A new level of traceability in your survey data



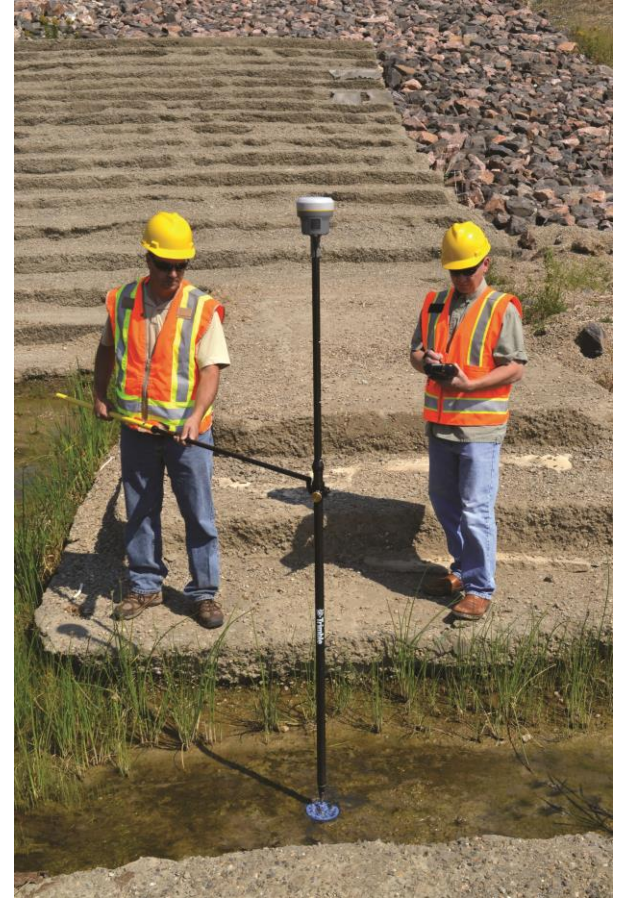
eBubble

- The electronic bubble can be used instead of the traditional pole bubble
- Press CTRL + L to show or hide the eBubble from any screen
- The eBubble is aligned to the front side (LED panel) of the Trimble R10
- Calibration
 - This is done within Trimble Access (under Receiver Settings)
 - Set the Trimble R10 up on a tripod with a recently calibrated tribrach



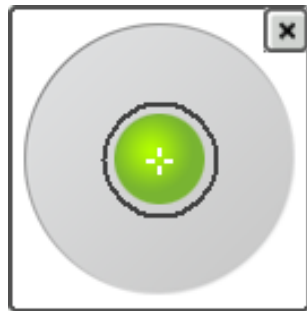
Guards Against Pole Tilt

- Guards against erroneous measurements due to pole tilt
- A tilt warning appears if the pole is ever outside the user defined tilt tolerance during a measurement or at start/storage
- This can be disabled

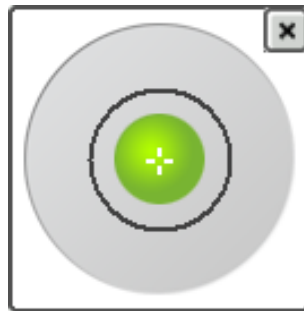


Auto Measure/Store

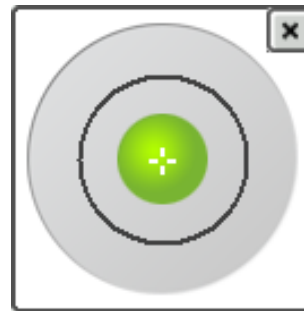
- Hundreds of points can be stored with only one tap on the Start button
- Measurement begins when tilt is within a pre-defined tolerance (default: 0.020m)
- Auto-stored after two epochs – go to the next point...



0.010m



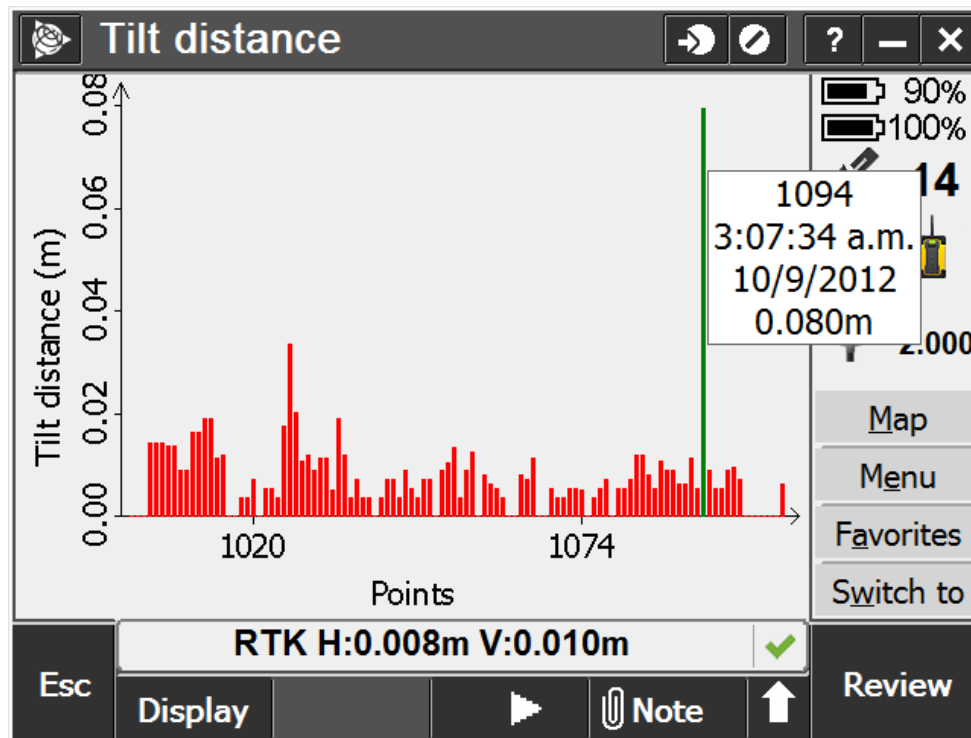
0.020m



0.030m

A New Level of Traceability

- Surveyors want raw data
- Tilt sensor values are stored with every point and can be reviewed in Trimble Business Center

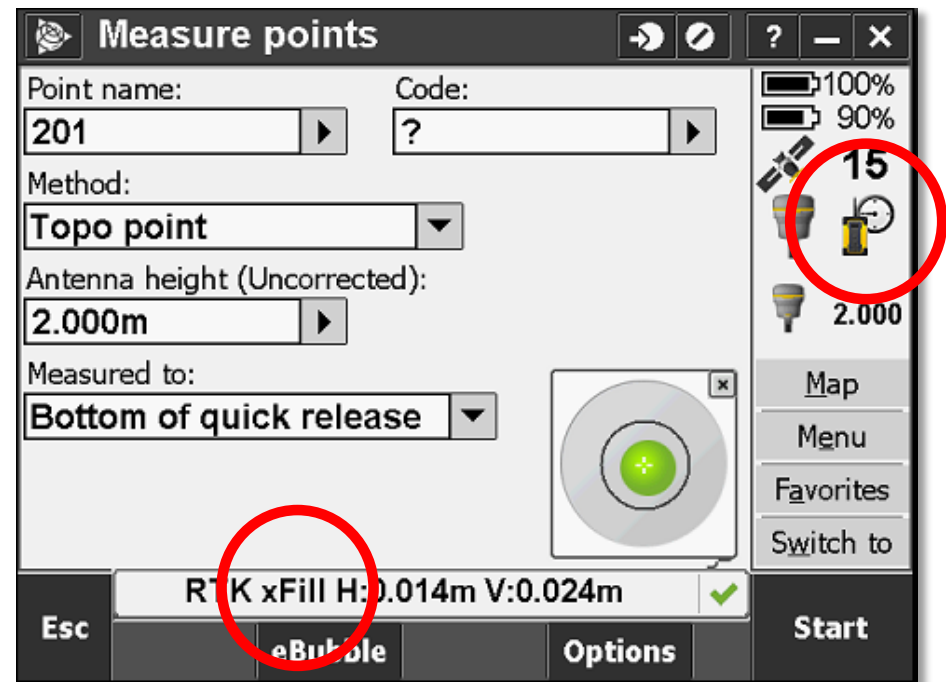


Trimble xFill™

Powered by Trimble RTX™ Technology

Continue surveying without interruption when you temporarily lose connection with your base station or VRS network

- More continuous surveying
- Less downtime



Built for the Surveyor

A new level of precision engineering, the smallest and lightest GNSS receiver in its class

- Packed with new features
- 40% smaller and 30% lighter
- Rugged IP67 / MIL-STD-810F
- Improved weight distribution
- Improved handling means less fatigue after a day in the field



Trimble R10

Productivity Beyond GNSS

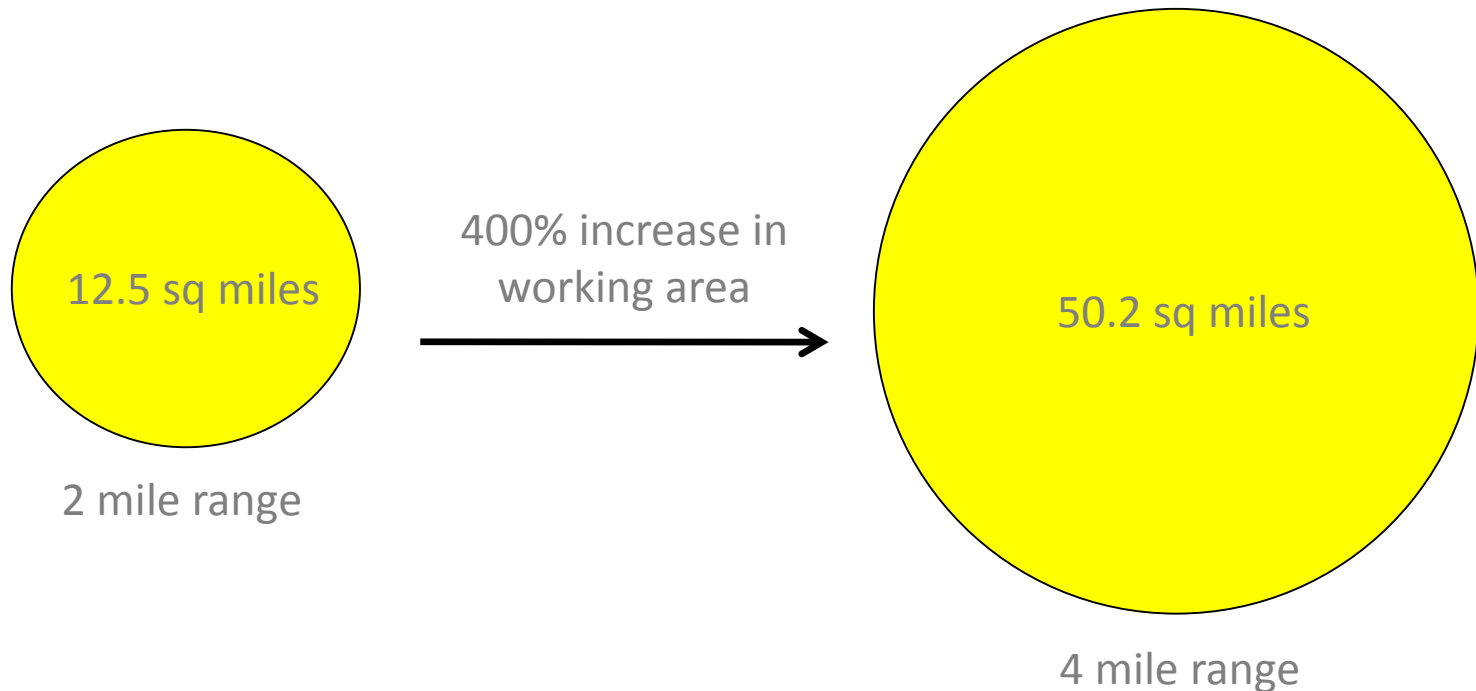
- Trimble HD-GNSS
- Trimble SurePoint™
- Trimble xFill™
- Ergonomic Design

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Internal UHF Radio

- Internal wideband radio can broadcast at a powerful 2W
- Approximately double the radio range of the Trimble R8
- Increases the working area by ~400%



All Packed Into One Box



Notable Accessories



Passive Prism
(89847-00)



Base Adapter
(89846-00)



Quick Release Adapter
(89845-00)



Trimble R10 Battery
(89840-00)