



# Trimble SiteVision

AUGMENTED REALITY SYSTEM



## KEY FEATURES

- ▶ Accurately places and displays 2D/3D data in real world context from any angle at true-to-life scale
- ▶ Precisely locates and reveals hidden assets
- ▶ Combines Trimble® Catalyst™ GNSS centimeter level positioning with Google® and iOS AR technology
- ▶ Automatically transforms complex 2D designs into visual 3D models
- ▶ Switches between 2D and 3D views
- ▶ Provides Trimble cloud-based data hosting and reporting tools
- ▶ Enables collaboration and communication of designs on the job site
- ▶ Compatible with a wide range of Trimble, open industry standard, and third-party file formats
- ▶ Lightweight, portable pole-mounted unit

**Learn more:**  
[geospatial.trimble.com/sitevision](https://geospatial.trimble.com/sitevision)

\* Tablet not included.

# Trimble SiteVision AUGMENTED REALITY SYSTEM

## HARDWARE

### TRIMBLE DA2 CATALYST GNSS RECEIVER<sup>1,2</sup>

#### GNSS position accuracy

In RTK coverage<sup>3</sup>: ..... Hz: 1 cm + 1 ppm RMS Vt: 2 cm + 1 ppm RMS  
 In Trimble RTX<sup>®</sup> technology coverage: ..... Typically 2 – 20 cm In North America  
 and Western Europe<sup>4</sup>  
 Typically < 50 cm In the rest of the world<sup>4</sup>

## GNSS PERFORMANCE

### SBAS

Horizontal accuracy ..... 0.6 m RMS  
 Vertical accuracy ..... 1.2 m RMS

### Code Differential (DGPS)

Horizontal accuracy ..... 0.3 m + 1 ppm RMS  
 Vertical accuracy ..... 0.6 m + 1 ppm RMS

### Single baseline (<30 km) RTK

Horizontal accuracy ..... 10 mm + 1 ppm RMS  
 Vertical accuracy ..... 20 mm + 1 ppm RMS

### Network RTK

Horizontal accuracy ..... 10 mm + 0.5 ppm RMS  
 Vertical accuracy ..... 20 mm + 0.5 ppm RMS

### Trimble RTX (using Trimble Corrections Hub)

Horizontal accuracy ..... .2 cm RMS  
 Vertical accuracy ..... .5 cm RMS

Positioning rate ..... 1 Hz, 5 Hz, 10 Hz

## STATIC GNSS POSITIONING

### Static and Fast Static

Horizontal ..... 3 mm + 0.5 ppm RMS  
 Vertical ..... 5 mm + 0.5 ppm RMS

## SIGNAL TRACKING

- Trimble ProPoint<sup>®</sup> GNSS positioning technology for improved accuracy and productivity in challenging GNSS conditions<sup>5</sup>
- GPS: L1C/A, L2C, L5
- GLONASS: L1C/A, L2C/A
- SBAS: L1C/A, L2C, L5
- Galileo: E1, E5A
- BeiDou: B1, B2A
- QZSS: L1C/A, L2C, L5
- NavIC (IRNSS): L5
- Digital channels: Software controlled by Catalyst dynamic signal tracking using mathematical channels

### Notes on Specifications and Testing Procedures

Mechanical performance testing was performed by Trimble with production quality DA2 devices. GNSS performance testing was performed by Trimble with production quality DA2 devices. GNSS performance is dictated by the Catalyst subscription type in use. GNSS accuracy may be affected by anomalies such as multipath, satellite geometry, atmospheric conditions, and proximity to obstructions such as trees, mountains, buildings and other structures. Accuracy specifications are valid in normal conditions with clear line of sight to the sky. Accuracy may degrade quickly and significantly under any of the aforementioned anomalous conditions.

## MECHANICAL

Dimensions (Diameter x Depth) ..... 128 x 55 mm  
 Weight ..... 330 g (11.6 oz)  
 Ingress protection level ..... IP65 (dust proof, rain proof)  
 Drop, shock, & vibration ..... Survives 2 m tipping falls  
 Survives 1.2 m free falls to concrete  
 Survives vibrations & mechanical shocks (MIL-STD-810G test method)

### Supported Platforms

Android ..... Android 5.0 (Pie) and higher  
 iOS ..... iOS 13.0 and higher

## COMMUNICATIONS/CONNECTIVITY

Bluetooth<sup>®</sup> ..... 4.2  
 Apple ..... Made for iOS certified  
 Ports ..... USB-A (Power only)  
 Data protocols ..... NTRIP, VRS, RTCM 3.2 MSM, CMRx, DCOL  
 Position output ..... NMEA (LLH), DCOL  
 Android Location Service  
 Apple Location Service  
 Android Location Extras

## BATTERY AND POWER

Requires external USB battery pack  
 External power input ..... USB-A (5 V 1 A)  
 Power consumption ..... 2.0–2.5 W

## ENVIRONMENTAL

Operating ambient temperature ..... -20 °C to +60 °C (-4 °F to +140 °F)  
 Storage temperature ..... -40 °C to +70 °C (-40 °F to +158 °F)  
 Operating humidity ..... 95% RH, non-condensing  
 Operating altitude ..... Tested to 9,000 m (29,500 ft)

## COMPLIANCE

USA: FCC Part 15 (Class B device), Canada: ICES-003; Europe: CE; UK: UKCA;  
 Australasia: RCM.

For latest compliance status visit:

[help.trimblegeospatial.com/Catalyst/DA2-compliance.htm](http://help.trimblegeospatial.com/Catalyst/DA2-compliance.htm)

## IN THE BOX

- Catalyst DA2
- 5/8" thread mount
- USB power cable
- Battery clamping kit
- Documentation

## OPTIONAL ACCESSORIES FROM TRIMBLE

- 1/4" thread mount
- Locking 5/8" thread mount
- USB battery pack
- Soft pouch
- 2 m carbon fiber pole
- 2 m aluminium pole
- Antenna backpack, and more

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## SOFTWARE

### Model placement

- Automatic with Georeferenced data
- Measured (cm)
- Manual
- QR Markers

### Supported formats

- Trimble: SKP, VCL, TTM, TrimBIM, TMAP & Tekla®
- Open industry standards: IFC, LandXML
- 3rd party: DWG, SHP, GDB, PNG, DWG/DXF, RVT, NWD/NDC, WFS, DGN, TFLX & PDF

### Connectivity (model data)

- Cellular or Wi-Fi, via user supplied mobile phone

### Connectivity (correction data)

- Cellular or Wi-Fi, via user supplied mobile phone
- L-band satellite for remote operations

### Data interpretation

- User defined rules & 3D symbols

### Measurement and recording functions

- Georeferenced photo
- ToDo's
- Tasks
- Points
- Grade
- Distance
- Cut/Fill
- Volumes
- Area

### Measurement methods

- GNSS
- AR model measurement
- Lidar
- Camera

### Measurement modes

- Model point to model point
- Ground point to model point
- Ground point to ground point

### Minimum phone requirements

- Powered by Android 9.0 or later, that is supported by the Google AR technology
- Powered by iOS 13 and later, from the iPhone 6s and iPad (2017) onwards, that is supported by the Apple ARKit technology

## SUBSCRIPTION INCLUDES

### GNSS correction services

- Trimble SiteVision™ Precision Service including Trimble VRS Now™ and Trimble RTX
- Use of other third party VRS correction services may involve an additional cost from the 3rd party service provider

### Cloud storage

- Trimble Cloud services

- 1 Performance depends heavily on many contributing factors. Accuracy and reliability may be subject to anomalies such as multipath, satellite geometry, atmospheric conditions, and proximity to obstructions such as trees, mountains, buildings, and other structures.
- 2 Applies to DA2 GNSS receiver only, not user provided mobile device.
- 3 Using Trimble VRS Now, third party VRS networks or internet connected base stations using Trimble Internet Base Station Service (IBSS) or similar services
- 4 See the Trimble Global Coverage maps for more details: <https://positioningservices.trimble.com/resources/coverage-maps/>
- 5 Challenging GNSS environments are locations where the receiver has sufficient satellite availability to achieve minimum accuracy requirements, but where the signal may be partly obstructed by and/or reflected off of trees, buildings, and other objects. Actual results may vary based on user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability, and level of multipath and signal occlusion.

Specifications subject to change without notice.

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