# PRODUCT BULLETIN

## SPECTRA PRECISION SURVEY OFFICE

**September 2017**

Each Spectra Precision Survey Office (SPSO) Edition is designed to support a set of related workflows:

▶ **Viewer (Unlicensed)**: import field data, review data, and view projects

▶ **Base Edition**: (formally Basic) - export data to field, basic CAD, data quality control, and level data

▶ **Intermediate Edition**: (formerly Complete) - GNSS post-processing, traverse and network adjustments, site calibration, and surfaces

▶ **Advanced Edition**: (formerly Complete with Roads) - Trimble Vision™, automated plan set creation, cadastral survey, enhanced CAD drafting, and corridors

Beginning with v4.00, the following add-on modules are available:

▶ **Advanced Drafting Module**: Automated plan set creation, cadastral survey, and enhanced CAD drafting

▶ **Aerial Photogrammetry Module**: Work with Trimble UAS data in TBC and Trimble and third-party UAS data in UASMaster

▶ **Data Prep Module**: Turn 2D raster and vector PDF data into 3D vector deliverables

▶ **GIS Module**: Provides seamless integration of high-accuracy survey data from Trimble Access™ software into GIS

▶ **Scanning Module**: Register and colorize SX10™ data and classify, extract features, and create deliverables from SX10™ and third-party point clouds



| Feature | Viewer | Base Edition | Inter mediate Edition | Advanced Edition | Advanced Drafting Module | Aerial Photo Module | Data Prep Module | GIS Module | Scanning Module |
|---|---|---|---|---|---|---|---|---|---|
| Field Data Import | ✓ | ✓ | ✓ | ✓ | | | | | |
| Data Viewing | ✓ | ✓ | ✓ | ✓ | | | | | |
| Feature Definition Management | ✓ | ✓ | ✓ | ✓ | | | | | |
| Coordinate System Management Tools | ✓ | ✓ | ✓ | ✓ | | | | | |
| Internet Services (Access Services, TCC, PP) | ✓ | ✓ | ✓ | ✓ | | | | | |
| 3D Data Visualization | ✓ | ✓ | ✓ | ✓ | | | | | |
| Spreadsheets and Advanced Reporting | | ✓ | ✓ | ✓ | | | | | |
| Optical Data Processing | | ✓ | ✓ | ✓ | | | | | |
| Basic CAD and COGO Tools | | ✓ | ✓ | ✓ | | | | | |
| Local Site Settings | | ✓ | ✓ | ✓ | | | | | |
| Automated Feature Code Processing | | ✓ | ✓ | ✓ | | | | | |
| SketchUp Compatibility | | ✓ | ✓ | ✓ | | | | | |
| Google Earth Tools | | ✓ | ✓ | ✓ | | | | | |
| Data Export | | ✓ | ✓ | ✓ | | | | | |
| Network Adjustment | | ✓ | ✓ | ✓ | | | | | |
| GPS L1-only Baseline Processing | | ✓ | ✓ | ✓ | | | | | |

| Feature | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Traverse Adjustment | ✓ | ✓ | | | | | |
| GNSS Baseline Processing | ✓ | ✓ | | | | | |
| Trimble RTX GNSS Post-Processing Service | ✓ | ✓ | | | | | |
| 3D Data Drive-Through | ✓ | ✓ | | | | | |
| Site Calibration Tools | ✓ | ✓ | | | | | |
| Automated Labeling | ✓ | ✓ | | | | | |
| Surface Tools | ✓ | ✓ | | | | | |
| Contouring Tools | ✓ | ✓ | | | | | |
| Cut/Fill Maps | ✓ | ✓ | | | | | |
| Advanced Volume Calculations | ✓ | ✓ | | | | | |
| Work with Blocks | ✓ | ✓ | | | | | |
| Labelling Tools | ✓ | ✓ | | | | | |
| Image Georeferencing Tools | ✓ | ✓ | | | | | |
| Panorama Processing and Image Deliverables | ✓ | ✓ | | | | | |
| Point Cloud Management Tools | ✓ | ✓ | | | | | |
| Mobile Mapping Feature Extraction Tools | | ✓ | | | | | |
| Cadastral Tools | | ✓ | | | | | |
| Corridor Design Tools | | ✓ | | | | | |
| Terrestrial Photogrammetry Tools | | ✓ | | | | | |
| Point Clouds from Trimble Vision | | ✓ | | | | | |
| History Log View | | ✓ | | | | | |
| Automated Dimensioning | | ✓ | | | | | |
| Automated Point Creation at Intervals | | ✓ | | | | | |
| Merging Survey Projects | | ✓ | | | | | |
| Superelevation Diagrams | | ✓ | | | | | |
| Advanced Cross-Section Tools | | ✓ | | | | | |
| Legal Description Writer | | ✓ | ✓ | | | | |
| Create Plan Sets | | ✓ | ✓ | | | | |
| Work with Sheet Sets | | ✓ | ✓ | | | | |
| Automated Cross-Section Plotting | | ✓ | ✓ | | | | |
| Custom Sheet Plotting | | ✓ | ✓ | | | | |
| Work with Dynaviews | | ✓ | ✓ | | | | |
| Line and Curve Tables | | ✓ | ✓ | | | | |
| Scale Bar Management | | ✓ | ✓ | | | | |
| Creating Leader Lines | | ✓ | ✓ | | | | |
| Plan Grid Manager | | ✓ | ✓ | | | | |
| Create COGO | | ✓ | ✓ | | | | |
| Create 3D PDF | | ✓ | ✓ | ✓ | | | |
| Create Orthorectified Image | | ✓ | ✓ | ✓ | | | |
| Cutting Plan View | | ✓ | ✓ | | | | ✓ |
| Plane Definition Manager | | ✓ | ✓ | | | | ✓ |
| Virtual DR | | ✓ | | | | | ✓ |

| Feature | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| UASMaster License | | | | | | ✓ | | |
| Advanced UAS | | | | | | ✓ | | |
| Create Orthomosaic, Pt Cloud, and Raster DSM | | | | | | ✓ | | |
| Automated Tie Point Adjustment | | | | | | ✓ | | |
| Adjustment with Ground Control Points | | | | | | ✓ | | |
| Create CAD Points from Scan Points | | | | | | ✓ | | ✓ |
| Smart Pick Feature Extraction Tools | | | | | | ✓ | | ✓ |
| Automatic Ground Extraction | | | | | | ✓ | | ✓ |
| Intensity Based Filtering | | | | | | ✓ | | ✓ |
| Sample Point Clouds | | | | | | ✓ | | ✓ |
| Project Cleanup | | | | | | | ✓ | |
| Standardize Layers | | | | | | | ✓ | |
| Import Raster and Vector PDF Data | | | | | | | ✓ | |
| Georeference Vector PDF Data | | | | | | | ✓ | |
| Elevate Contours Tools | | | | | | | ✓ | |
| Elevate Points, Lines, and Pads | | | | | | | ✓ | |
| Digitize Pads, Linestrings, and Contours | | | | | | | ✓ | |
| Establish a GIS data source connection | | | | | | | | ✓ |
| Extract a GIS schema and create an FXL file | | | | | | | | ✓ |
| Upload processed features to a GIS data source | | | | | | | | ✓ |
| Import/Export file geodatabases | | | | | | | | ✓ |
| Read GIS Data from data source | | | | | | | | ✓ |
| Map Metadata | | | | | | | | ✓ |
| Create Orthophoto Image | | | | | | | | ✓ |
| Create Scan Station | | | | | | | | ✓ |
| Georeference Point Clouds | | | | | | | | ✓ |
| Scan Registration | | | | | | | | ✓ |
| Automatic Point Cloud Region Classification | | | | | | | | ✓ |