



Nuwa Version(1.0.8.0) Release

Apr 3, 2019

Overview

Tersus GNSS Inc. ("Tersus") is glad to release the Nuwa for David GNSS receiver. Nuwa version (1.0.8.0) is available to download at www.tersus-gnss.com/software/david-receiver and support documents are available at www.tersus-gnss.com/document.

Features

- Assists with Bluetooth/USB connection
- Configure base/rover setup
- Visualized interface for receiver operations
- Data management (import/export)

Change from Previous Versions

| Issue | Type | Version |
|--|-------------|---------|
| Added Portuguese predefined coordinate system | Enhancement | 1.0.8.0 |
| Optimized static storage | Enhancement | |
| Optimized elevation fitting calculation | Enhancement | |
| Fixed elevation problems caused by geoid model during data inverse calculation | Bug Fix | |
| Fixed the flashback issue caused in certain situations | Bug Fix | |
| Optimize DXF export | Enhancement | |
| Fixed the problem that the default is the control point library when importing points for stakeout point library | Bug Fix | |
| Fixed the problem that the interface has no prompt when the stakeout point is approaching the stakeout point library | Bug Fix | |
| Support collecting points with physical collection button in TC20 controller | Enhancement | 1.0.4.1 |
| Support quick points collecting in 'point stakeout' and 'line stakeout' with physical collection button | Enhancement | |
| Add 'survey hotkey' in point survey configuration page | Enhancement | |
| Fix average collection problem if the solution can't meet the requirements | Bug Fix | |
| Change the display of coordinate axis in projection parameters as X->North Y->East | Enhancement | |

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| Optimized the calculation of parameters and the secondary calculation process of point correction | Enhancement | 1.0.3.3 |
| Optimized the device connection experience | Enhancement | |
| Optimized the device registration experience | Enhancement | |
| Optimized antenna management | Enhancement | |
| In the survey configuration, the survey epoch is changed to be editable by users | Enhancement | |
| Added Oscar preview in Device Connection, so stay tuned! ! | Enhancement | |
| Added support for common NMEA devices | Enhancement | 1.0.3.2 |
| Added the function of automatically zooming the scale when approaching the stakeout point during point stakeout/line stakeout | Enhancement | |
| Added multi-point selection function when importing stakeout points | Enhancement | |
| Solved the connection stability of NtripClient function under Spanish and other languages | Enhancement | |
| Added the functions of Device Debug and static mutual exclusion | Enhancement | |
| Fixed the display problem when NtripClient and TCPClient are connected | Bug Fix | |
| Modified the GNSS point coordinates displayed in the base shift as BLH | Enhancement | |
| Optimized static record Station ID setting function | Enhancement | |
| Fixed crash when switching languages in Spanish and other languages | Bug Fix | |
| Combined the mount point and rover | Enhancement | |

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| configuration to solve the problem of the display of the mount point history data | | |
| Fixed the problem that the collection time epoch does not take effect in the survey configuration | Bug Fix | |
| Fixed the problem of not displaying NEh coordinates when manually starting the base station | Bug Fix | |
| Fixed the problem that the base point cannot be selected in the base shift | Bug Fix | |
| Fix the stakeout point error on the map and coordinates error after the base shift | Bug Fix | |
| Fixed the error of multiple repetitive calculations in the base shift | Bug Fix | |
| Added support for north-south/east-west hemisphere | Enhancement | |
| Optimize continuous point survey by distance | Enhancement | 1.0.2.9 |
| Optimize continuous point survey by time | Enhancement | |
| Add the predefined coordinate systems of Malaysia and Romania | Enhancement | |
| Add the function of station-id setting during static measurement | Enhancement | |
| Add the function of Inner RTK control | Enhancement | |
| Add the function of importing projects | Enhancement | |
| Add preview function for predefined coordinate system | Enhancement | |
| Optimize the arrangement and display of countries or regions in the predefined coordinate systems | Enhancement | |

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| Optimize the display of satellite quantity | Enhancement | |
| Optimize the display of antenna height interface | Enhancement | |
| 'Connected' at the top of the main interface is changed to 'Connected' | Enhancement | |
| The position status of satellite interface for base station is changed to 'Base Manual' and 'Base Auto' | Enhancement | |
| Fix the problem of not displaying NEh coordinates when manually starting the base station | Bug Fix | |
| Add new projections: Cassini, Oblique Stereographic Alternative, Stereographic, and Transverse Cylindrical Equal Area | Enhancement | |
| Fix the problem of imported line files are not identified | Bug Fix | |
| Fix the problem of crashing when creating new projects and point survey under Spanish language | Bug Fix | |
| Optimize database upgrade | Enhancement | |
| Add predefined coordinate system | Enhancement | |
| Modify the satellite quantity display as 'satellite tracked / satellite used' | Bug Fix | |
| Optimize the export format of dxf file | Enhancement | |
| Fix the problem that the elevation increases when manually starting the base station | Bug Fix | |
| Optimize base shift experience | Enhancement | |
| Change shp/dxf export coordinates to local coordinates | Enhancement | |

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| Fix the problem that satellites on the Sat Tab interface has always shown true | Bug Fix | |
| Add differential data format display when using Ntrip to obtain source list | Enhancement | |
| Optimize system stability | Enhancement | |
| System compatibility is improved, compatible with upgrades on older software | Enhancement | |
| Fixed the problem that the antenna height disappeared in the device connection interface after reloading the software | Bug Fix | 1.0.2.6 |
| Fixed the problem of the invalidity of static survey after canceling auto-start | Bug Fix | |
| Fixed the problem of the Ntrip Client set up failure for the rover | Bug Fix | |
| Fixed the problem of the antenna height configuration failure for the rover | Bug Fix | |
| Optimize the software automatic update experience | Enhancement | |
| Optimize the device connections | Enhancement | |
| Optimize continuous acquisition by time | Enhancement | |
| Add Geoid Model: (1) support EGM96 and EGM08 at the same time; (2) optimize data loading and reduce waiting time for different devices; (3) simplify algorithm calculation process and save system resources | Enhancement | |
| Add UTM projection support for the southern hemisphere | Enhancement | |
| Optimize the rules for point acquisition automatic naming | Enhancement | |

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| Optimize the base shift function: (1) support multiple times of base shift; (2) support real-time modification of the shift parameters; (3) reorganize the base shift logic; (4) redesign the base shift UI | Enhancement | |
| Optimize the solution state of the data export, which is the same as the board definition | Enhancement | |
| Optimize the display of the antenna height when manual-starting the base station | Enhancement | |
| Repair of other problems | Enhancement | |
| Antenna height display optimization | Enhancement | 1.0.2.4 |
| Survey configuration: display configuration optimization | Enhancement | |
| Re-enter static storage, status optimization | Enhancement | |
| Static storage antenna optimization when self-starting the base station | Enhancement | |
| Line stakeout 'distance' distinguishes between positive and negative | Enhancement | |
| Add column name for coordinate export | Enhancement | |
| Remove the 'Acquisition Status' of the 'Text Acquisition' interface | Enhancement | |
| 'Smoothing' and 'Acquisition' are combined | Enhancement | |
| Ntrip site management: IP address display is incomplete | Bug Fix | |
| Click base/rover configuration without changing order | Enhancement | |
| Support for name modification of base/rover configuration User-defined name can be changed, the | Enhancement | |

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| system default name cannot be changed | | |
| Add reminder when creating a new project | Enhancement | |
| Change the logic of antenna type choosing, the antenna type must be choosing before connection | Enhancement | 1.0.2.3 |
| Change the default antenna height as pole height in surveying, change the default antenna height as slant height in static surveying | Enhancement | |
| Support choosing file type in import file | Enhancement | |
| Add GPS mock location | Enhancement | |
| Fixed the error of configuration when build a new project | Bug Fix | |
| Optimized the interface freeze if there are too many points in point survey interface | Enhancement | |
| Optimized the display of export interface | Enhancement | |
| Optimized the display of the result in two point intersection | Enhancement | |
| Optimized the display of title bar | Enhancement | |
| Optimized the option logic in import interface | Enhancement | |
| Change the voice output frequency in point stakeout | Enhancement | |
| Add RTCM1230 message in base model | Enhancement | |
| Fixed software crashed when sharing project | Bug Fix | |
| Optimized the logic to register David | Enhancement | |
| Optimized the device connection | Enhancement | |
| Support auto start static mode | Enhancement | |
| Add xyz approximate in rinex file | Enhancement | |
| Optimized the speed to log in CORS. | Enhancement | |

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| Add point name and code in dxf format | Enhancement | 1.0.2.2 |
| Fix the abnormality H value if the antenna slant height is zero | Bug Fix | |
| Change the 'Projection' to 'CRS' | Enhancement | |
| Change the threshold value in collect points by distance | Enhancement | |
| Optimized auto collect function by distance | Enhancement | 1.0.2.1 |
| Optimized software access authority (it need location information authority at the same time when using Bluetooth if your android version is higher than Android 6.0) | Enhancement | |
| Optimized auto update function | Enhancement | |
| Optimized the display of system language | Enhancement | |
| Optimized many default value | Enhancement | |
| Optimized the pop-up message when getting the first fixed solution | Enhancement | |
| Optimized the language of pop-up messages | Enhancement | |
| Fixed the display error in height fitting title panel | Bug Fix | 1.0.2.0 |
| Default to open update auto test function | Enhancement | |
| Fixed software crash due to the display of decimal point in some language | Bug Fix | |
| Optimized the display of project information | Enhancement | |
| Fixed the bug that the QR code can't refresh when project parameters changed | Bug Fix | |
| Fixed the title can't be changed with system language changed | Bug Fix | |
| Fixed numeric keypad have no decimal point problem in some cellphone | Bug Fix | |

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| Fixed the unusual local coordinate value under some ellipsoid | Bug Fix | |
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