



Nuwa Version(1.0.4.1) Release

Dec 29, 2018

Overview

Tersus GNSS Inc. ("Tersus") is glad to release the Nuwa to David GNSS receiver. Nuwa version (1.0.4.1) is available for download at www.tersus-gnss.com/software/david-receiver and support documents are available at www.tersus-gnss.com/document.

New 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
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	
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	1.0.3.2
Added support for common NMEA devices	Enhancement	
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	Enhancement	

importing stakeout points		
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 configuration to solve the problem of the display of the mount point history data	Enhancement	
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	Enhancement	

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hemisphere		
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	
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	Bug Fix	

identified		
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	1.0.2.8
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	
Fixed the problem of the invalidity of static survey after canceling auto-start	Bug Fix	1.0.2.6
Fixed the problem of the Ntrip Client set up failure for the rover	Bug Fix	
Fixed the problem of the antenna height	Bug Fix	

configuration failure for the rover			
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		
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	Enhancement		

self-starting the base station		
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 system default name cannot be changed	Enhancement	
Add reminder when creating a new project	Enhancement	
Change the logic of antenna type choosing, the antenna type must be choosing before connection	Enhancement	
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 apporoximate in rinex file	Enhancement	
Optimized the speed to log in CORS.	Enhancement	
Add point name and code in dxf format	Enhancement	1.0.2.2
Fix the abnormity 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	Enhancement	

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the first fixed solution		
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	
Fixed the unusual local coordinate value under some ellipsoid	Bug Fix	