

## **Diamond Knowledge Base**

### **Centurion Version History 1.49**

- Update to support new TTC-4430 Traffic counter. Also includes these changes:

Build #0001 10/29/2019	Added support for new Flag Field 0x08 (Trail Counter Settings).
Build #0002 10/31/2019	Added support for doing Datahog Firmware Update (asked to do automatically after downloading data and when new firmware version found). Added Reverse Geocoding on the counter Lat/Lon setup (so the address is automatically displayed from the GPS coordinates).
Build #0003 11/04/2019	Added TTC-443x support for "Override Speed Setting".
Build #0004 12/05/2019	Fixed reversing Lat/Lon on the Omega 3/Omega G main page. Added some GPS access options for Omega X3 and Omega G (double clicking on GPS Lat or Long loads map, better options for reverse address). Fixed a bug on the GEOCOUNTS "TC" field not including the number of bins correctly. Fixed handling 0xFC (Block Text) data in certain data files.
Build #0005 01/10/2020	Changed the Omega X3 interface to better support no-Bluetooth installed (hides those questions related to Bluetooth. Added new "Bin Tables" button to the advanced Omega X3 and Omega G link screens. Clicking on this option allows you to customize the bin table settings inside firmware v2.00 and higher Omega X3 and Omega G traffic counters. Bin Tables button opens new editor which can save new tables to the counnected counter. You can do single tables or all "different" tables, which are highlighted in the Tab bar as White or Blue text. Added BIT14 of OX3_ADVANCED_COLLECT defining the Omega X3V and Omega GV models (which store Per-Vehicle or Volume data instead of Timestamp data). It makes these additional changes: Supports new ID Strings of "OXV#" and "OGV#" for the new Omega X3V and Omega GV versions of the counters. The time on vehicles shows to a hundredth of a second. SnMis options expanded to "Disabled", "Display Only", or "Display and Store". Added Record Interval to Start Collecting (when doing Volume collection). Only displayes enabled lane totals when doing Start Collecting or when data collection is active. Synced up the Omega X3 and Omega G advanced displays (to make them identical except for counter differences). Added class #'s to the main counter link Collecting view.
Build #0006 03/02/2020	Changed the OPIR link to have a Video or Data collection selection. Choosing one of these changes the other button functions. Added XModem1K and Ymodem to the terminal window (both Recevie and Transmit). Added ability to double click the Omega X3, Omega G, RR3 battery date to change it to new value. Changed the window size of the Data file Wizard to keep it from exceeding the available space (shrinks window from last setting when necessary). Added option on Importing preferences to automatically create YEAR\YEAR-MONTH archvie sub-directories during importing. Added Support for "OPP" link ID (Omega Passive IR-Portable) New "Channel" and "RSSI" values on the WiFi link. Ability to set "TxPower" value. WiFi Channel can be set to "0" for Auto The WiFi On/Off button acts immediately and there is a new status display on the WiFi page. Added the "Retune Rate" setting on the Main settings page. Changed the Last Study to be different if doing vido than data. New "Full Vide" format support for full video output. Added support for linking to Omega Passive IR at 2Mbps (instead of 921.6kbps). It will automatically try this speed if 921.6 doesn't work and it is a direct link. Can now view "Full Video on camera link and supports viewing of distinct zones (instead of full screen). This is done by right clicking on the Vew Camera button and selecting the type and zone you want to view, or selecting the viewing full screen. Added commas to file sizes. Changed the TTC-443X serial number to work like this: If it is "UNSET" or blank, then the first 8 digits are set to TC3mmyy-" and the final 12 can be set to anything. The first eight are still editable though. If it is non-blank, then everything up to the first dash (-) is assumed to be factory set, and everything after the dash is settable by the user.
Build #0007 03/30/2020	Added new export type: TMG PerVehicle 'V' Format. New function "Clock Resync" (enabled by default) to auto massage any timestamp binary file for time/date changes in the file. This function makes sure that clock changes or clock drift does not show up as errors in the datafile.

Build #0008 04/12/2020	Added new "Class Trend Report" to Report Generator. This new report shows trends in different classes from a daily, weekly, or monthly basis on a graph. Users can select to show all bins or just a range of bins and then split it up as desired.
Build #0009 04/15/2020	Added ability to match up specific Raw Vehicle classes on the Trend Report. This is enabled only when a "Ax", "Sx", "Lx", "Gx", or "Hx" is put into the beginning of the Bins to Use variable. Updated the title on the graphs when limits used to show what bins/classes are used in report creation. Added a Percent to the right side of the graph after the total when doing Trend Excel Export.
Build #0010 04/22/2020	Added support for the new Start At and Stop At settings in the v2.02 Omega X3 and Omega G firmware. This applies to both the simple and advanced interfaces. Modified the OX3/OAG interfae to better support counter letter codes ('a', 'i', 'etc). Added a count down for the Stop Time and Start Time to the simple interface. The user can also select Start At and Stop At through this link (but can only change the setting in the advanced link).
Build #0011 05/15/2020	Added a new "Batch Process" command to the Database menu. This lets you quickly and easily setup an export to a specific format and then instantly preform that on subsequent data sets.
Build #0012 05/19/2020	Fixed a problem on the Batch Exporter finding PerVehicle data at the end of the Date/Time range.
Build #0013 05/29/2020	Fixed some window resizing issues on the TimeStamp processor. Now remembers the height of the window (but not the width) and makes sure the buttons at the bottom are always visible. Added to the Database View a "Create Stie List + GPS Coords in Excel" function to automatically create a file that shows all the sites plus the GPS coordinates and a link to a map function.
Build #0014	internal build not released.
Build #0015 06/15/2020	Added a "try/catch" block to applying the range in DB Export. This fixes a problem with some errors.
Build #0016 07/01/2020	Removed linking to POmega Passive IR and instead notified user to use the "Omega Passive IR" program instead. Fixed Study Length display on TSProcess (was trimming incorrectly) especially with 1-3 day studies. Now signs the .exe files before deploying with web update.
Build #0017 07/09/2020	Made Counter Type=30 support extended Lane Info. Modified loading binary files to better support the kind created by the OPIR.
Build #0018 10/07/2020	Fixed bug setting "stop Time" on Omega G's
Build #0019 10/20/2020	Added a "IMPORT" and "IMPORTARCHIVE" command line options followed by a file name(s) to import new data and then to exit. Fixed trying to import "Axle Class" bins with IR Data when enabled in Centurion.
Build #0020 10/30/2020	Fixed "%02i" scans for Start Time on Omega G/Omega X3 link. this occured with determining the start time for "At top of Hour".
Build #0021 11/02/2020	Added live "IMPORT" and "IMPORTARCHIVE" functions by checking for presence of "\$ILIST.TXT" in the Downloads directory. Files to import are added to this directory by the Omega Passive IR program.

Build #0022 11/09/2020	Fixed problem importing ".int" PerVehicle files when they end in 0x00 filler bytes. Added the Direction Code, Pixel Width (stored in Raw Loop Length), and multiple other additions to the import system. When sensor type is 17 Site Setup Edit, Data File Wizard, Report Generator, and Exports (including Direct to Excel). Fixed a couple of bugs in writing Pres-Pres or IR Camera out to "Normal" and "With Bins".
Build #0023 11/11/2020	No longer closes with importing data from command line or from OPIR (unless EXITIMPORT is also on the command line).
Build #0024 01/18/2021	Added check for new "V5" I-Loop board during loop board firmware updating. This accesses different firmware files and a slightly different upload process.

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