FIRMWARE RELEASE NOTES

Versions V3.0.17 to v3.0.23

Model VLP-16

LiDAR Sensor

Velodyne

For all new features and changes, refer to the documentation that accompanies the new firmware release for details on usage.

V3.0.23 (30-Mar-2015)

- ADDED: Data packet tagging
  - Every data packet now identifies the type of sensor and return type the packet is formatted for. Future version of HDL-32E firmware will support this as well.
  - The following chart explains what the bytes mean:

Return Type	Field (37) Address: 4DEh	Field (21) address: 4DFh
HDL32 Strongest	37	21
HDL32 Last	38	21
HDL32 Dual	39	21
VLP16 Strongest	37	22
VLP16 Last	38	22
VLP16 Dual	39	22

- ADDED: Added additional factory functions to detect encoder errors.
- CHANGED: Updated field of view setting to use whole degree increments
  - FOV configuration was made to match HDL-32E by incrementing in whole degree increments. Range is now 0-359 instead of 0-35999.
  - NOTE: Any previous setting will be reset to default after firmware update. Downgrading to an older version will not update the setting to the old range.
- CHANGED: Updated web interface graphics
- FIXED: Issue with zero crossing
  - Sensor would occasionally drop a small amount of data when crossing the point of zero degrees rotation.
- FIXED: Snapshot filename
  - By default, the snapshot filename would be saved as all zeros, this has been corrected.
- FIXED: Error in NMEA sentence processing
  - Fixes incompatibility with certain GPS units that support non-zero fractional second fields in the NMEA $GPRMC sentence. This could cause the Top of Hour Counter to be off as much as 1 second.
- FIXED: Bug in encoder logic
  - This bug prevented phase lock from operating correctly.

V3.0.17

- Initial commercial release. Please see documentation for included features.

Velodyne LiDAR, Inc.
345 Digital Drive
Morgan Hill, CA 95037

408.465.2800 voice
408.779.9227 fax
408.779.9208 service fax

www.velodynelidar.com

Service E mail: lidarservice@velodyne.com
Product E mail: help@velodyne.com
Technical E mail: lidarhelp@velodyne.com
Sales E mail: lidar@velodyne.com

All Velodyne LiDAR products are made in the U.S.A.