

Firmware revision history

Revision	Date	Changes
2.16.2	12/03/24	Fix- Added a delay in the SWLS settings, to prevent interruptions to the driver when it saves to its memory. <i>Remark- Do not turn off the system until the SWLS commands are complete.</i>
2.16.1	18/02/24	Improvement- Dual Gimbals- 'Inner mode', Description can be found in the 'Command and Control API' document.
		Fix- Enable general operations (such scanning, preset etc.) with each Dual Gimbals mode.
		Fix- Scanning- snake movement.
2.16.0	20/12/23	Improvement- Software limit switch- setting the software limit switch handler (controller/driver/both). Activate ' <i>slowdown</i> ' mechanism. Description can be found in the 'Command and Control API' document.
		Improvement- New error register to indicate if one of the motion operations wasn't completed successfully. Description can be found in the 'Command and Control API' document.
		Improvement - New Error position indication for absolute mode. Description can be found in the 'Command and Control API' document.
		Improvement- Set faults in motor error register when communication with driver is lost.
		Improvement- Reading the number of satellites from AN GPS. Fix- motor error message.
2.15.1	12/11/23	Improvement- Dual Gimbals- 'Sighting In' mechanism, Description can be found in the 'Command and Control API' document.
2.15.0	9/11/23	Improvement- main operations timing.
		Improvement- optimization the readings from the drivers.
		Fix - Homing on startup (using startup register).
		Fix - Dual Gimbals – absolute movement with software limit switch.
2.14.3	11/10/23	Improvement- New MPU IMU integration.
		Fix - Dual Gimbals- software limit switch in Sync mode. Improvement- Reading absolute encoder position from the drivers.

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2.14.0	6/8/23	Feature - Dual gimbals Implementation. Description can be found in the 'Command and Control API' document.
		Improvement- New Cube drivers' integration.
		Improvement- New AN GPS integration.
		Fix- 'preset' angles in a range of 0 to 360°.
		Optimization- Software limit switch- negative position must be less than the positive limit.
		Optimization- Blocking negative position commands in absolute mode.
2.13.8	23/7/23	Fix- Absolute movement with short path.
		Fix- Leveling operation considering the software limit switch.
2.13.7	14/5/23	Fix- 'Go To Target' operation for Roll & Tilt systems
		Improvement - Adding filter for IMU readings in stabilization loop. Description can be found in the 'Command and Control API' document.
		Issue- Absolute movement with short path
		Unavailable Firmware
2.13.6	27/4/23	Fix- The return opcode of 'get OvdGPS' command.
		Fix- Absolute encoder readings timing.
		Feature- Offset for IMU readings. Description can be found in the 'Command and Control API' document.
2.13.5	19/3/23	Fix- The calculation of Euler angles from IMU readings.
		Fix- Changing the minimum value of stabilization acceleration.
2.13.4	7/12/22	Fix- Opcodes of stabilization settings commands.
2.13.3	29/9/22	Improvement - Stabilization loop- settings of control type, max error and speed command for position control loop were added. Description can be found in the <i>'Command and Control API'</i> document.
2.13.2	30/8/22	Improvement- Homing function according to the absolute encoder
		Fix - Using 'General Spd' variable in Leveling operation (instead of fix speed value).
2.13.0	28/8/22	Feature- Bootloader implementation
		Improvement- Stabilization loop of Roll & Tilt systems
		Fix- Stop motors in Keepalive mechanism



2.12.6	20/7/22	Fix- Software limit switch with reverse axis.
2.12.5	22/6/22	Improvement- Software limit switch with absolute encoder.
		Fix- Limiting the number of leveling attempts.
2.12.4	13/6/22	Improvement - Targets, Presets, scanning and stabilization operations for one axis systems.
		Improvement- Targets, Presets and scanning operation while stabilization is active.
2.12.3	24/5/22	Improvement - Stabilization loop- Roll compensation was added. Description can be found in the 'Command and Control API' document.
		Fix- Reset VN IMU
2.12.2	31/3/22	Improvement- Motion commands while stabilization is active.
		Fix- Initialization position of Scanning.
2.12.1	21/3/22	Fix- Drivers communication for one axis systems.
2.12.0	15/3/22	Feature - Keep Alive mechanism. Description can be found in the 'Command and Control API' document.
		Feature - Startup register. Description can be found in the 'Command and Control API' document.
		Feature - Set the position range. Description can be found in the 'Command and Control API' document.
		Feature- Leveling operation. Description can be found in the 'Command and Control API' document.
		Improvement- Drivers communication- reading motors data.
		Fix- blocking movement commands while one of motion operation is active.