



## 2.23.xx Initial Public Release February 2017

Highlights: Expanded RTSP support, new telemetry display, H.264 profile selections, KLV PassThrough, NMEA GPS, Dual Recording and Snapshots.

### 2.23.14 (10/12/17)

- All - Fixed issue with SetKlvData (0x61) inserting incorrect metadata into transport stream.
- 1500 - Fixed crashing issue when saving parameter file.

### 2.23.13 (08/29/17)

- All - Fixed less limited zoom issue (2-up 1080 in/out zoom on 3000), now allows 0.5.
- All - Serial writes are now non-blocking to handle cases where amount of telemetry exceeds serial port bandwidth.
- 3000- Fixed bug in starting tracks in source coordinates with 2-up display.
- 3000 - Fixed bug in blending alignment when applying negative horizontal and vertical offsets.
- 3000 - Fixed TCP passthrough not working after network cable was unplugged.
- Panel Plus - Fixed inadvertent zoom when mouse wheel zoom was disabled.
- Panel Plus - Multicamera matrix is now usable with windows 10 display scaling.

### 2.23.12 (08/04/17)

- All - NMEA GGA and RMC messages are now parsed from a variety of sources.
- All - Fixed serial-to-serial passthrough max length latency issue.
- 1500 - Fixed stale background image when switching cameras of different sizes with HD output.

### 2.23.11 (07/18/17)

- All - Fixed bug in FTP username and password settings to correctly handle shorter names and passwords.
- All - Fixed upgrade utility to be able to send program files that contain spaces in the file name.
- 3000 - Fixed bug that occasionally occurs with the 59.94 Hz HD-SDI output formats.

### 2.23.10 (06/29/17)

- All - Improved ATTNNAV packet conversion to AQUARIOUS to handle a standard packet and LITE packet.
- All - Fixed bug that does not allow command pass through to work with certain types of command lines. Fixed same bug in command pass through to serial.
- 3000 - Fixed possible crash when streaming on both networks with RTP formats.
- All - Fixed a bug that does not allow RTSP clients to join a multicast session.

### 2.23.09 (06/09/17)

- All - Fixed default IP gateway and assignments for private subnets.
- All - Fixed zoom and rotation issues with 1080 input/output.
- All - Fixed possible error with scale reported by registration when looking at a blank scene.
- All - Fixed the documentation of sensitivity in MTI detection parameters message.
- All - Fixed multiple issues for VMS Software Support in RTSP module.
- All - Added decoding sprop-parameter-sets used in SDP files for H.264 in RTSP.
- All - Added RTSP Digest Authentication support.
- All - Added RTSP keep alive support (default 120 seconds).
- All - Added refuse routine once maximum session number (8) is reached for RTSP.
- 1500 - Fixed PAL output where fields were mixed in successive frames.



- 3000 - Fixed CLAHE 9/10 bit where bad pixels were present on left and right edges with 1080P G16 camera.
- Panel Plus - Fixed occasional crash decoding HD video when camera changes dramatically such as in a NUC.

#### **2.23.08 (04/04/17)**

- All - Added camera capture width and height to the overlay plugin interface and example code.
- All - Added support for G16 image 9 and 10-bit CLAHE for denoise.
- 3000 - Fixed auto gain of G16 to prevent all bright for super-hot image.
- 3000 - Fixed default UDP port for Network1 to be 15006 as RTP formats need an even numbered port.

#### **2.23.07 (03/24/17)**

- All - Fixed issue of autogain min and max not accounting for brightness and contrast.
- All - Fixed error in reporting of MTI coordinates as chop results were not correctly being included.
- 3000 - Fixed potential crash using Aerial MTI with a non-zero valid ROI in acquisition parameters.
- 3000 - Fixed RTP main crash when ethernet cable is unplugged.
- 3000 - Fixed issue where overlay plugins were not being provided with track results for the new detection algorithms.
- Panel Plus - Fixed issue where autogain freeze clipped to 14 bits.
- Panel Plus - Added autogain ROI control.

#### **2.23.06 (03/07/17)**

- 3000 - Fixed color space conversion for HD-SDI output.
- Panel Plus - Added Macro Editor for generating serial passthrough commands.
- Panel Plus - Fixed issue that resulted in user overlay plugins not loading.

#### **2.23.05 (02/22/17)**

- All - Added significant updates to RTP and RTSP networking implementations.

**Note:** Detailed information can be found in the updated RTP and RTSP user guides.

- All - Added support for multiple unicast streaming through RTSP. Up to 8 clients for each network stream.
- All - Added documentation and examples for Lua scripting interface.
- 1500 - Fixed crash with grey scale camera showing PIP display.
- 3000 - Fixed potential crash with Net1+OGL display.

**Note:** This configuration which was not allowed in previous revisions of 2.23 is now fully supported.

#### **2.23.04 (01/19/17)**

- 1500 - Fixed issue where Hitachi camera fails to initialize on Rev E OEM board.
- 1500 - Fixed so MJPEG video streaming automatically starts after reset.
- 3000 - Fixed blend so settings of 1 and 255 map to 0 and 100%.
- 3000 - Fixed left and right edges of PAL input being chopped and incorrect output frame size.
- 3000 - Fixed possible crash when trying to write to SD card before initialization is complete.

#### **2.23.03 (01/11/17)**

- All - Added NMEA GPS.
- All - Added new lower cost and reduced feature tracker.
- All - Added option to stop and start streaming without changing the configuration.
- All - Added time stamp in all telemetry packets.
- All - Added support for clipping of drawing objects.



- All - Updated Focus Metric to Variance of Laplacian to provide better focus peak.
- All - Updated default telemetry rate to send every frame.
- All - Fixed settings combinations that resulted in lens control failures.
- All - Fixed issue where Sony/Tamron resolution change required power cycle.
- All - Fixed issue where multiple customer client apps on ARM could compete for command and control.
- All - Fixed missing target KLV metadata.
- All - Fixed stationary tracker to not jump onto moving objects.
- 1500 - Added support for Airborne Innovations global shutter 720p camera.
- 1500 - Updated HD camera without HD input app bit works by cropping SD frame from center.
- 1500 - Updated RTP support to work without RTSP.
- 1500 - Fixed PIP for image sizes other than NTSC.
- 1500 - Fixed issue where a Tau direct connect causes crash.
- 1500 - Fixed case where focus and zoom position feedback was not updating.
- 3000 - Added KLV passthrough control.
- 3000 - Added support to make overlays for each connected camera.
- 3000 - Added independent input and output PAL/NTSC video formats.
- 3000 - Added support PIP to network display.
- 3000 - Added support of Net1+OGL display.
- 3000 - Added support for 1280×960 network display size.
- 3000 - Added 1080P25 support.
- 3000 - Added 2 network streams from the same camera.
- 3000 - Added ability to enable hardware cropping in capture driver.
- 3000 - Added support for digital camera BT.656.
- 3000 - Added simultaneous snapshot of all defined cameras.
- 3000 - Added high bit depth CLAHE.
- 3000 - Added support for blend + PIP display.
- 3000 - Added index for ADC parameters.
- 3000 - Added support for different H.264 profiles.
- 3000 - Updated Blending to have flexibility in camera configurations, false color options, etc.
- 3000 - Fixed HDMI input video issues and default to 720p.
- 3000 - Fixed Sony EV at 1080P to fix 4 column black lines at right.
- 3000 - Fixed display frame skip behavior with H.264 display.
- 3000 - Fixed multiple snapshot function to only record snapshot of camera requested.
- 3000 - Fixed blend cache issue around cursor position.
- 3000 - Fixed cases where green line was at bottom of output image.
- Panel Plus - Updated H.264 Alt/HD to be the default for 1500 and main option.