



2.25.xx Initial Public Release September 2018

The 2.25.xx software release provides the latest software for SightLine Video Processors.

2.25.06 (11/16/2018)

- All - (added) Image brightness mean and variance added to FocusStats (0x55) for aperture and exposure control.
- All - (improved) Decreased roll jitter with stationary camera.
- 1500 - (fixed) Autofocus now working with Bayer image format.
- 3000 - (added) Tamron SC001 lens control and autofocus - was previously 1500-OEM only.
- 3000 - (improved) Use acquisition parameters for camera setup instead of TVP7002 video format detect register values (fix in earlier release - final confirmation now complete).
- 3000 - (improved) Reduced latency for HDMI/HDSDI/Analog outputs, biggest improvements seen in 1080p30/1080p25.
- 3000 - (fixed) Reduced latency for HDMI/HDSDI/Analog outputs in cases where output frame rate is different than input frame rate.
- 3000 - (fixed) SD card playback now consistent at startup and loops indefinitely.
- 3000 - (fixed) SetOverlayMode (0x06) to hide user defined overlays now works as expected.
- 3000 - (fixed) Reduced 3000 telemetry latency.
- Panel Plus - (improved) Messaging in Panel Plus to indicate that recording RTP+H.264 video is not supported.

2.25.05 (10/19/2018)

- All - (improved) KLV Pass-through is now available via a UDP message without SightLine protocol header.
- All - (improved) SetAcquisitionParameters (0x37) will now force valid high and valid wide to be multiples of 8.
- All - (fixed) PC example code SLA Command, no longer failing to correctly parse telemetry packets.
- All - (fixed) Fixed cases where registration ignore edges and capture ROI were not checked correctly resulting in possible system crash.
- All - (fixed) Rare start-of-track failure cases.
- All - (fixed) Occasional failures of the system save of the parameter file.
- All - (fixed) DrawObject (0x3B) was not drawing correctly when one object is static and another moves with the camera.
- All - (fixed) Occasional cases showing non-primary track in PIP primary track mode.
- All - (fixed) The SLA examples installer was missing FFMPEG library references.
- 1500 - (fixed) Occasional crash after restarting with disable stabtrack parameter saved.
- 1500 - (fixed) Artifacts in video when streaming 1500 + CLAHE + MPEG4.
- 3000 - (improved) Added new telemetry packet with classifier information and added debug window improvements to support classifier tuning and use.
- 3000 - (fixed) Crash when mezzanine board ID is set to 0x0F.



- 3000 - (fixed) GPIO now initialized to known state in startup script (rc.local / sla3000_init.sh) to avoid indeterminate state.
- 3000 - (fixed) Cases where the network stream bit-rate would be different than requested.
- Panel Plus - (added) Full window display mode.
- Panel Plus - (fixed) Updating the KLV fields of Net1 even if it is not streaming from Net1.

2.25.04 (9/25/2018)

- All - (added) Non-Uniformity Correction (NUC) and Dead Pixel Removal (DPR) capability.
- All - (added) Subset of detection telemetry now available with SLE.
- All - (added) Gas enhancement for gas-leak inspection applications.
- All - (added) Ability to choose source of metadata on a per-KLV-field basis.
- All - (added) Support for any KLV tags defined in MISB standard ST0601 to be set using new TagData command.
- All - (added) New command, SetVMTI allows customers to specify outside VMTI data for MPEG2-TS KLV stream.
- All - (added) Ability to unselect Stationary Camera registration for improved performance from moving cameras.
- All - (added) New two-byte command packets improve customer control. RegistrationParameters, StabilizationBias, and StartTracking.
- All - (added) Snapshot metadata. KML and NITF output options. Added options to EXIF headers.
- All - (added) Support for grey scale 8-bit image in PNG encoder.
- All - (added) MGRS location report supported with draw object.
- All - (added) Arial, Verdana, and Calibri available in both regular or bold, fixed width or non-fixed width. New shadow mode.
- All - (added) Overlay command can be tied to camera index.
- All - (added) Options for custom watermark overlay.
- All - (added) SWIR camera compatibility (Quantum Imaging).
- All - (fixed) Multi PiP/Track PiP improved for cases when track is near the edge of the screen.
- All - (fixed) Precision landing zone detection when using digital zoom.
- All - (fixed) Region of Interest (ROI) capture offset fixed for RGGB/Airborne.
- All - (fixed) Removed outdated selected track/ green box.
- All - (fixed) ROI references set width instead of assuming standard frame width.
- All - (fixed) RTSP server detects and runs cleanup during abnormal exit.
- All - (fixed) Saving snapshot to SD without card installed returns "NO SD CARD" warning.
- All - (fixed) SD card is no longer limited to approximately 22,000 files.
- All - (fixed) All KLV fields are sent regardless if rate is changed.
- All - (fixed) KLV overlay data errors corrected.
- All - (fixed) Temperature read corrected on the 3000 at very cold temperatures.



- All - (improved) Incremental updates to detection and tracking. Drone detection and tracking improvements are significant.
- All - (improved) Drone detection performance with complicated backgrounds.
- All - (improved) Acquisition assist in drone mode.
- All - (improved) Blob detection latency with HD input.
- All - (improved) Precision landing detection of reverse polarity pattern.
- All - (improved) Decode of metadata when KLV passthrough.
- All - (improved) General histogram overlay improvements.
- 1500 - (added) Big snapshot functionality. 1080 input/snapshots while streaming 720.
- 1500 - (fixed) MPEG4 streaming of analog video.
- 1500 - (fixed) Switching to MPEG4 compression does not cause crash.
- 1500 - (improved) Region of interest can be specified for HD inputs.
- 1500 - (improved) User-accessible GPIO now initialized as output and low.
- 3000 - (added) - AI/Classifier capability to drone detection mode.
- 3000 - (added) IP Video Decoder Functionality for SightLine sourced video. See [EAN-Decoder](#).
- 3000 - (added) Support 1080i50 output with HDSI and HDMI.
- 3000 - (added) A constrained bit rate mode more closely matches target bit rates.
- 3000 - (fixed) Enhancement denoise works with Multi-camera PiP.
- 3000 - (fixed) OSD graphics and PiP no longer appear blurred when drawn within stabilization border.
- 3000 - (improved) Blending issues related to camera indexes / frame sizes for Fixed and Warp. New user warnings if blending setup is not valid.
- 3000 - (improved) Blending. Added corresponding points alignment.
- Panel Plus - (added) Encoding latency to performance graphs.
- Panel Plus - (fixed) Bit rate of received video is updated in Panel Plus.
- Panel Plus - (fixed) Corrected net1 changes caused by altering net0.
- Panel Plus - (fixed) Eliminated FTP time-out while performing listing.
- Panel Plus - (fixed) Overlays for search and detection regions no longer disappear with acquisition assist.
- Panel Plus - (fixed) No longer apply previous settings (PiP, camera, etc.) when switching between cameras.
- Panel Plus - (improved) Detection region of interest (ROI) easier to set up.
- Panel Plus - (improved) Launching sub-dialog brings dialog to front.
- Panel Plus - (improved) User can download license file and parameter file from About box.
- Tools and Documentation - (added) Example Lua script telemetry logger.
- Tools and Documentation - (added) Command line firmware upgrade for incorporation into customer GUIs.
- Tools and Documentation - (improved) IDD packet changes identified in IDD documentation.
- Tools and Documentation - (improved) EAN and ICD documentation updates throughout.