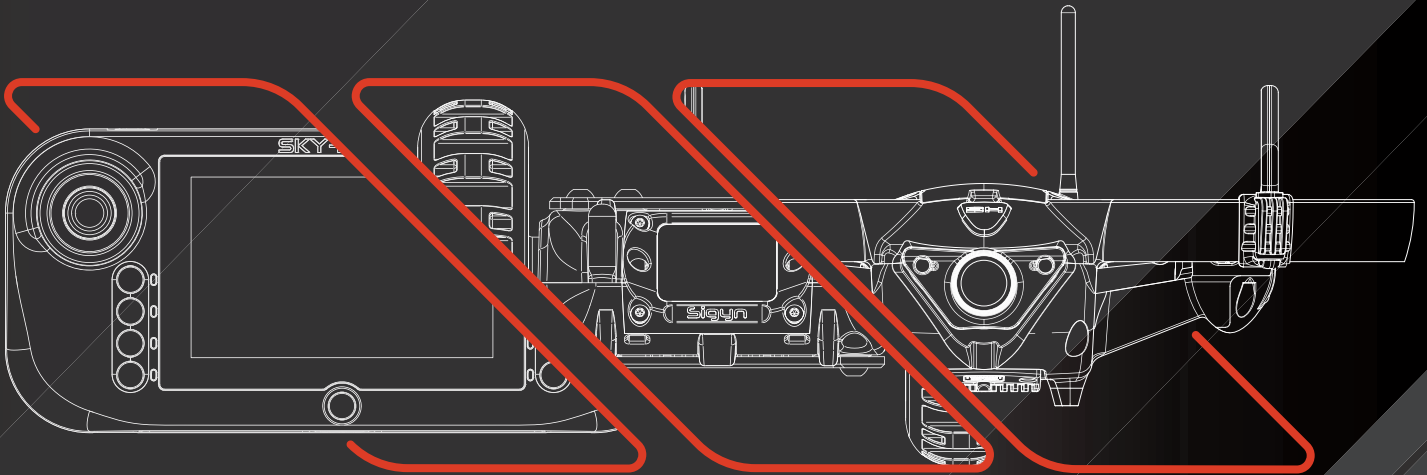


Unified Indoor Tactical Recon Robots System RELEASE NOTE

FIRMWARE GCS^{NI} & Loki^{NI} V3.2.0
FIRMWARE Sigyn^{NI} V1.1.0

July 2023



 Please carefully read this supplement to the user manual instructions before use

SH
SKY-HERO

SSU
COMPATIBLE
by SKY-HERO

GCS MkII | Firmware Changelog V3.2.0

This page includes the changelog for the client releases.

New Features

- Show the distance to ground when connected to a flying Loki MkII. LOW is displayed under 50cm, under 2m we have 10cm resolution. Resolution decreases as the drone gets higher until it shows HIGH over 50m.
- Auto-hovering (disabled by default) can be set in the menu of the Loki MkII to be on by default. You can also toggle it on and off in the command actions or assign the toggle to a button. When auto-hovering is enabled the drone will automatically enter the hovering state (if possible) when the joysticks are released making it easier to pilot. Note that in challenging conditions auto-hovering could cause the drone to fly away (e.g. follow its shadow). When auto-hovering is enabled the GCS displays H in the top bar.
- Add toggle for drive assist for the Sigyn - this functionality is useful when driving in long hallways or narrower straight passages, especially inclines.
- Show a yellow P in the top bar when a payload is connected to see at a glance if a payload was detected or not.
- Support for the LED payload - including torch, strobe, patterns, bottom torch, laser (class IIIA). All the functions are accessible via Command Action menu (or can be assigned to a button). A new menu in the GCS payload menu enables to change parameters of the strobe, the torch and the patterns.
- Support for the vertical camera payload. This payload provides the drone with a down looking camera which can be accessed via Command Action (or assigned to a Button).
- Support for the Narfi MkI Pole Camera Head.

Changes

- Show overheating status for devices when the VTX temperature reaches a certain threshold, and the device starts to limit video power or other heat generating functionalities (e.g. LED payload). This is indicated via a pop up on the GCS, followed by a capital T on the telemetry bar.

Fixes

- Fix potential crash when disconnecting and reconnecting to a device.
- Fix the video brightness being set too low by default on newer GCSs.
- Add video boost action for the Sigyn and Narfi.
- Small correction on Video Power 3 setting.

Loki MkII | Firmware Changelog V3.2.0

This page includes the changelog for the client releases.

New Features

- Add auto-hovering. In auto-hovering the drone will enter hovering (if possible) whenever the joysticks are released. This makes it easier to fly the drone but can have negative effects in challenging conditions.
- Send the distance to the ground back to the GCS.
- Add the ability to steer the drone (pitch, roll, yaw (up to 50 cm)) when landing.
- Add support for the LED payload. Automatically adapt the flying characteristics when the payload is connected.
- Add support for the vertical camera payload. Automatically adapt the flying characteristics when the payload is connected.

Changes

- Improved floor mode:
 - Better controlled descent;
 - Fast jump;
 - Allow slow but continuous ascent when maintaining the throttle engaged;
 - Better overall performance.
- Automatic landing at 3% has been changed from crash landing to controlled landing (which enables drone steering).
- Drastically increase the copying speed to retrieve the log files - from around 15 min to 1 min.
- Increase the number of stored logs.
- Differentiate between logs of normal flights and flights where a crash occurred - based on logs names.

Fixes

- Automatically land the drone if the connection between the SH and the P7 is broken.

Sigyn MkI | Firmware Changelog V1.1.0

This page includes the changelog for the client releases.

New Features

- Send minimal information in the video stream that can be used by the watch screen (battery, video orientation, ...) - not available for the Loki MkII.
- Drive assist can be toggled on and off and helps the Sigyn maintain a straight line and gives more precise left/right corrections. Useful when driving in long hallways or narrower straight passages, especially inclines. A capital 'A' appears on the telemetry bar when the functionality is activated.
- LED payload support.
- Vertical camera payload support.

Changes

- Improve user feedback through the RGB user LED.

Fixes

- Fix a memory fault in the code that could result in unexpected behavior or crashes.
- Fix motor timeout when a command action is received.





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If you have feedback or comments about this release note, please reach out to: contact@sky-hero.com