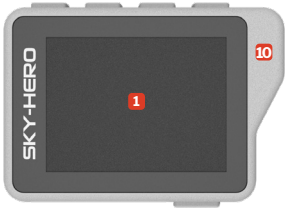
QUICK START GUIDE | Tactical Remote Screen

version 1.0.0 | January 2023

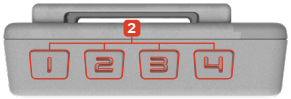
SYSTEM COMPONENTS

Tactical Remote Screen

A robust and compact multichannel monitor, providing each team member with a high resolution 2.7 inch screen, mountable on arm or any support to allow hands-free operation. It provides up to 4 real time A/V intel inputs, streamed by up to 4 unmanned vectors whether in motion or in sentry.



FRONT PANEL

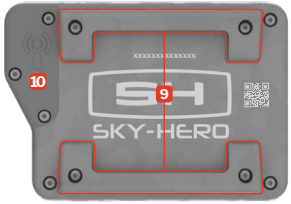


TOP FACE

BOTTOM FACE

1. Display Screen
2. Device / A/V Stream Buttons
3. MMCX Connector for ext. antenna*
4. Audio Output Port for headphone*
5. Audio/Video Output Port
6. USB-C Port
7. LED Charging Indicator
8. ON/OFF/Menu Button
9. Openings to pass Strap
10. Embedded Antenna

Remote Screen related elements



BACK PANEL

CONFIGURATION SOURCE

1 ON/OFF Button 2 USB-C Port

GCS MkII related elements

GCS MkII

Small remote ground controller that simultaneously handles the control and monitoring of multiple unmanned vehicles, including the operation of their sensors and plug-in payloads**.

** in option

AUDIO/VIDEO VECTORS

Loki MkII

Ruggedized tactical quadcopter designed for short-range recon in dark under roof obstacle-rich environments and GPS-denied areas.

Sigyn MkI

Small, rugged and lightweight, throwable tactical ground robot, purpose-built to provide real-time A/V intelligence in difficult to access and hazardous places.

START

The Tactical Remote Screen is powered by means of an internal rechargeable battery

It is highly recommended to fully charge this embedded battery using a USB-C cable in dedicated port 6 with packaged charger plug until the charge LED indicator 7 is green

CONNECT

OPTION A **Automatic retrieval of A/V channels from the GCS MkII ↦ Fig. 1**

1. Turn ON the GCS MkII by long-pressing ON/OFF button ⏻ 1
2. Turn ON the the Tactical Remote Screen by long-pressing the ON/OFF/Menu button M 8
3. Connect the remote display using a USB-C cable from the USB-C port 6 to the GCS MkII USB-C port 2 to automatically retrieve the frequencies selected in the **«Video Channel»** menu of the GCS MkII
4. The Tactical Remote Screen will then display via each device button 1 2 3 4 2 the A/V stream(s) of each operated unmanned device(s)

The USB-C connection between the two devices does not allow charging of either device. However, the Tactical Remote Screen can be plugged via USB-C cable to an independent external battery - recommended at least 6000mAh providing in this case 9 hours of operation*

OPTION B **Manual selection of A/V channels ↦ Fig. 2**

1. Turn ON the the Tactical Remote Screen by long-pressing the ON/OFF/Menu button M 8
2. Long press the device button 1 2 3 4 2 that you want to configure.
3. The display will show a default channel on the lower left side. Simply use the device button 1 △ to scroll up or device button 2 ▽ to scroll down the available frequencies (A8-A1 | SH30-SH10 | E1-E8).
4. Exit the A/V channel selection menu to confirm your choice for the selected vector by short-pressing the ON/OFF/Menu button M 8 The choice made is remembered by the screen
5. Refer to your pilot operator to easily know which are the associated frequencies for the activated Sky-Hero devices or find it by yourself by scrolling △ ▽ the channels on the Tactical Remote Screen

The Tactical Remote Screen is not a touch screen. Don't use pens or touch inputs

There is no limit on the number of Tactical Remote Screens that can receive a given signal

The Tactical Remote Screen is purely a receiver and has no radio frequency transmission capacity

FIG. 1

FIG. 2

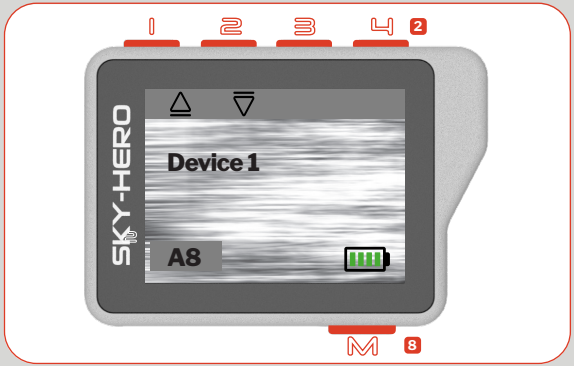
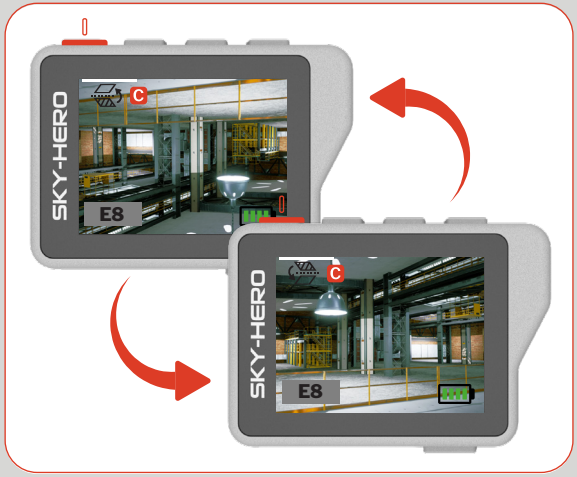


FIG. 3

FIG. 4



OPERATE

A Basics ↦ Fig. 3

1. Turn ON the the Tactical Remote Screen by long-pressing the ON/OFF/Menu button M 8
2. By default, the Tactical Remote Screen displays the A/V stream of the video channel selected under the device button 1
3. Freely navigate between the 4 selected A/V channels by short-pressing the 4 upper buttons 1 2 3 4 2
4. When one of the device buttons is briefly pressed, the display shows the following information during 3 seconds:

   A **Selected A/V channel**
   As previously described (cfr. CONNECT step), the A/V channel can be adapted to match the deployed device(s) A/V stream

   B **Battery status** of the Tactical Remote Screen:

Charge Levels	100%-75%	75%-50%	50%-25%	25%-10%	Less than 10%
Other status	Empty	In charge	Failure	Unknown	

   The Tactical Remote Screen may become a little warm, specifically on the back panel, but this does not affect its operation and remains safe for the tactical equipment supporting the device.

   C Option to **flip the A/V stream up or down** ↦ **Fig. 4**
   This option is primarily intended for viewing the A/V feed from a Sigyn Mkl sUGV, when the Sigyn operator has switched to its downwards-facing rear camera
   - If this view is selected by the pilot operator, simply press the corresponding device button once briefly to turn the broadcasted video channel right side out.
   - Short pressing it a second time will go back to the original view

5. Turn OFF the remote control screen at any step of its use by pressing and holding the ON/OFF/Menu button M 8

B Tactical Remote Screen Settings

Short-press the button ON/OFF/Menu M 8 to access the Tactical Remote Screen options. Short-press it again, while in the settings menu, to exit the menu

The settings prompts appear in the order defined below. At each setting menu, you can move to the next one by clicking button 4 ↦ At the end of the fourth setting menu, short-pressing the next button 4 ↦ will return you to the last selected channel view

1. **BRIGHTNESS** | Set the perceived intensity of the light coming from the tactical remote control screen (1 to 10) or choose the stealth/dark mode **↦ Fig. 5**

   1 Reduce the brightness
   2 Increase the brightness
   Short-press until the suitable brightness is reached

   3 Turn the screen to black, i.e. reduce the brightness to none. Short-press the device button of your choice to instantly re-activate it

2. **VOLUME** | Set the perceived loudness of the sound coming from the tactical remote display (1 to 10) when a headset* is connected on Audio Output port 4 or choose to mute **↦ Fig. 6**

   1 Reduce the sound volume
   2 Increase the sound volume
   Short-press until the desired sound volume is reached

   3 Mute the sound volume. All A/V streams will be soundless. To re-activate the sound, go back to the menu and click either on the mute button to return to the initially defined sound parameter. Pressing one of the two sound volume management buttons will deactivate the mute and increase/decrease sound

3. **SCRAMBLING** | Set the video descrambling mode to match the video scrambling mode of the devices broadcasting on the selected video channel **↦ Fig. 7**

   1 OFF No video descrambling will be applied
   2 ON Video descrambling and analog video signal inversion are enabled
   3 Only analog video signal inversion is applied

4. **ANTENNA** | If an external antenna* is connected to the MMCX Connector 3, choose which antenna to use, the built-in antenna or the external antenna **↦ Fig. 8**

   1 Select the external antenna | Used when the external antenna is deployed - for ex. outside an armoured vehicle - giving an extended range
   2 Select the embedded antenna 10

FIG. 5

FIG. 6

FIG. 7

FIG. 8

SKY-HERO

Missing parts/accessories or need assistance with this unit ?
Contact your local distributor: sky-hero.com/distributors

WARNING This Quick Start Guide is not a substitute for reading the operator's manual. To reduce the risk of injury or device misuse, user must read and understand operator's manual before using these products.

* not included