

Flightcell

Flightcell SmartHUB & Camera Operators' Manual



117-00017 Rev 2.0 Flightcell SmartHUB and Camera Operator's
Manual
Effective Date: 28 February 2025



Flightcell Support

Revisions & Approval

Revision	Effective Date	Approved By	Reasons for Change
1.0	31 May 2022	James Mace	First issue
2.0	28 February 2025	Phil Hutchings	Firmware 1.2.0 and 1.2.2 release and product revision up to Rev 1.5

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The Flightcell SmartHUB and Camera

The Flightcell SmartHUB is a Flight Data Recorder, recording critical flight data including

- » Video and ambient (cockpit) audio from one or two installed Cameras
- » Radio and ICS audio from the aircraft audio system
- » Flight data and exceedances from its inbuilt flight data recorder

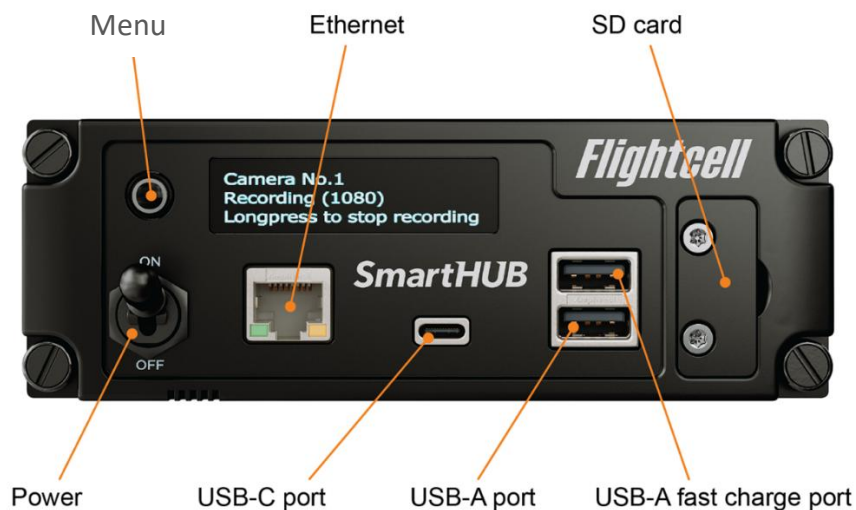
Operating the SmartHUB and Camera

The SmartHUB will normally be powered up and down automatically with aircraft power.

The SmartHUB does have a power switch but should not normally be powered off manually unless this is required by your operating procedures.

The SmartHUB and Camera are designed to operate automatically, and don't normally require any input from flight or maintenance crew except to download stored files.

The SmartHUB user interface is comprised of an OLED display and a **MENU** button.



The SmartHUB **MENU** button is used to navigate through the SmartHUB screens. The SmartHUB has a responsive user interface, so screens and options are only shown if the function is available (e.g. the option to turn a Camera on or off is only shown if a Camera is connected).

The **MENU** button supports two actions, a short press and a long press. A short press is usually used to advance between pages or through a list, and a long press to initiate and confirm an action.

Press **MENU** to activate the display and access the SmartHUB screens.

Turning video on and off

One or two cameras can be connected to the SmarthHUB

A camera connected to the SmarthHUB can be turned ON and OFF

This is available by advancing through the SmarthHUB menu using the Menu Key to the relevant camera page (Camera No.1 or Camera No.2)

- Long Press to stop recording
- Long Press to start recording

Turning Wi-Fi on and off

The Wi-Fi on the SmarthHUB can be turned ON and OFF

This is available by advancing through the SmarthHUB menu using the Menu Key

- Long Press to Activate
- Long Press to De-Activate

Charging USB devices using the SmarthHUB

The SmarthHUB has three USB ports:

- » One USB-C Quick Charge port
- » One USB-A Quick Charge port (upper)
- » One USB-A standard port (lower).

All three ports can be used to charge USB devices such as phones and tablets.

Note: that on some aircraft, the Quick Charge function may be disabled due to certification requirements. In this case only the lower USB-A port is available. To change this functionality, please contact your authorised Installer.

Downloading Flight Data from the SmarthHUB

SmarthHUB data is stored on the SmarthHUB on a 256 GB SD card installed in a protective enclosure. Each flight is stored in a separate file in SmarthHUB memory.

While the SD card can be removed to access the data, this is not normally necessary and not recommended.

It is recommended that data be downloaded onto a USB memory stick or over an ethernet connection to a laptop.

Note: To prevent unwanted users downloading data from the front USB ports an installer authenticated setting is provided that can disable USB data offload functionality. Please contact your authorised SmartHUB Installer to enable/disable this functionality.

Download onto a USB memory stick

- » Insert a memory stick in one of the SmartHUB USB ports
- » After 5 seconds, the SmartHUB display will show *USB drive mounted, long press to select data file to download*
- » Long press to show the first file, then long press to confirm download or short press and follow the on-screen prompts to advance to the next file to be downloaded.

Downloading files may take 1 to 5 minutes per GB, depending on the write speed of the memory stick.

Download via SmartHUB Connect

- » Connect a laptop to the SmartHUB via Ethernet or Wi-Fi
 - » Ethernet – connect a laptop to the Ethernet port on the SmartHUB front panel, open a browser and enter 192.168.16.1
 - » Wi-Fi – connect to SSID *SH Wifi* , password *flightcell*, open a browser and enter 192.168.2.1
- » The SmartHUB Connect application opens; click on the SmartHUB shown
- » Log in as an Operator, using default PIN code 2580
- » Go to *Flight Explorer*; all the flight files currently on the SmartHUB memory card will be shown
- » Click on the file you wish to download; this will download to the selected folder on your laptop (usually the Downloads folder). This may take 1 to 5 minutes per GB, depending on your connection.

Removing the SD card

- » Remove the cover plate for the card slot; as this is fastened by captive screws, unscrew the top screw halfway, then fully unscrew the bottom screw, then finish unscrewing the top screw
- » Push and release the memory card to remove.

Obtaining Documentation and Information

Documentation

Comprehensive documentation is available on the Flightcell website at www.flightcell.com/resources.

Technical support

For technical support contact Flightcell

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