

Flightcell® SmartHUB

Designed specifically for rotorcraft, the SmartHUB is a state-of-the-art audio, video and data recording hub, and an enabler for USB/IP powered devices.



Multipurpose Hub

- Records video, audio and flight data
- Effective tool for post-flight analysis, flight optimisation and training
- USB hub and ethernet ports
- USB charging unit
- Compact, weighs just 646 grams



Simple Installation

- Standalone unit or can be paired with Flightcell DZMx
- Various cockpit and remote mounting options
- No STC required



Optional USB Camera

- Interfaces with Flightcell SmartHUB
- Compact and discrete design
- HD1080p ultra low light camera
- Max resolution 1920x1080P, 2.0MP
- Strong, mountable swivel bracket

Discover more at flightcell.com/smarthub

Flightcell SmartHUB

HIGH SPEED INTERFACES

6 x USB 2.0

- USB-A front ports x 2 (1 fast charge, 1 normal charge, both data capable)*
- USB-C front port x 1
- USB rear connectors x 3 (for wiring in external USB ports or USB devices)*

*with fast charge option

GENERAL INTERFACES

ARINC 429 RX x2

RS232 x 2

CAN x 1

Digital inputs x 3 (e.g. oil pressure, collective, squat)

Power input x 1 (for remote power control)

Multi function notification output (e.g. indicate device is recording)

NETWORKING

10/100/1000 Ethernet x 6 (1 front, 5 rear)

Certified WiFi 802.11ac/a/b/g/n (optional)

AUDIO

Audio input for radio/intercom audio recording

Embedded mic for ambient cockpit recording

STORAGE

Ruggedized internal removable SD Card slot (not mini or micro)

CPU

1.8GHz Quad Core ARM Cortex-A53

4GB DDR4 memory

POSITION AND ORIENTATION

GPS

6-Axis MPU (Accelerometer, Gyro)

Internal barometric sensor

Capable of logging:

- Full GPS position data, altitude and speed
- Pressure altitude
- Vertical Rate (GPS and barometric), Turn Rate
- Pitch, Roll, G-Force
- Flight state

Impact detection

Ability to configure and log flight exceedances

POWER

28V DC

14W nominal, maximum 54W (2 x USB fast charge)

14W without fast charge

MOUNTING FASTENERS

DZUS mount, 4 x M5 threaded mounts on top/bottom

ENVIRONMENTAL

DO160G

DIMENSIONS

| | | |
|--------|-----------|--------|
| Weight | 646 grams | 22.7oz |
| Width | 146.0 mm | 5.75" |
| Height | 50.6 mm | 1.99" |
| Depth | 154.9 mm | 6.10" |

Flightcell Camera

INTERFACES

1080P Ultra low light camera, minimum illumination 0.01 lux

Maximum resolution 1920x1080P, 2.0 Megapixel

Maximum frame rate 30fps

Compression format H264/MJPEG / YUV2 (YUYV)

FOV: 100 degree no distortion lens

DIMENSIONS

| | | |
|--------|--------|-------|
| Weight | 150g | 5.3oz |
| Width | 50.0mm | 1.97" |
| Height | 38.0mm | 1.50" |
| Depth | 85.0mm | 3.35" |

Note: Product specifications are subject to change without notice

Phone: +64 3 545 8651

Email: info@flightcell.com

www.flightcell.com



Flightcell
ALWAYS CONNECTED