

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

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Flightcell
ALWAYS CONNECTED