

Flightcell SmartHUB

with optional CAMERA

COCKPIT VIDEO, AUDIO & DATA RECORDING TO SUPPORT OPTIMAL AIRCRAFT PERFORMANCE



SmartHUB unit



Camera unit

Flightcell have designed the SmartHUB as an enabler for all USB/IP powered devices, including the Flightcell Camera.

Operators can now upgrade to Flightcell's SmartHUB and Camera with minimal aircraft downtime, as installation is designed to be fast and easy. The Flightcell SmartHUB and Camera exceeds FENZ AST 1201 (5.1.1) Operational Service Specifications, giving you peace of mind you are investing in trustworthy and reliable products.

FLIGHTCELL SMARTHUB FEATURES

- OLED display and push (to activate) button for cycling through device status
- Hardened memory SD card records over 48 hours of HD video
- Powerful 1.8 GHz Quad Core Processor with 4GB RAM
- SD Card 128 GB to 1TB +
- Internal web interface and Android/iOS mobile application for detailed configuration/data download
- Post occurrence analysis and training flight reviews
- Future proofed unit that will cater for higher spec/multiple cameras (up to 3)

FLIGHTCELL CAMERA FEATURES

- Compact and discrete design
- HD1080p Ultra low light camera
- Maximum resolution 1920x1080P, 2.0 Megapixel
- Maximum frame rate 30fps
- Vibration dampening
- USB interfaces with Flightcell SmartHUB
- Strong mountable swivel bracket to optimise video recording position
- Constructed with aviation 6061 IT aluminium

Flightcell SmartHUB

HIGH SPEED INTERFACES

6 x USB 2.0

- USB – 2xA slot (1 fast charge, 1 slow charge and both data capable)*
- USB – C slot (fast charge and data capable)*
- USB x 3 (rear connector)

*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

D0160G

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 0.01lux

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	66.0mm	2.60"
Height	66.0mm	2.60"
Depth	86.5mm	3.41"

Note: Product specifications are subject to change without notice

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Flightcell
ALWAYS CONNECTED