

COCKPIT ENGINE INSTRUMENTATION



BLACK HAWK

H5900H-60 A/L

Advanced Engine Instrumentation (AEI)

Real-Time Performance and Mission Management

- Real-time torque available
- Dynamic hover and cruise torque targets
- Critical in and out-of-ground power settings
- Automated gross weight calculations within ± 100 lbs (± 45 Kg)

Multi-Function Displays for Battlefield Management

- Dynamically updated load-carrying capacity
- Video inputs accommodate various battlefield systems such as TIS, digital map and video from unmanned aerial systems
- Mission management/LZ Planning data



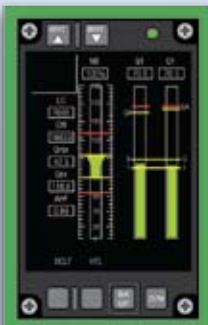
EDSC
Enhanced Digital
Source Collector



Multi-Function CDU



Multi-Function PDU



Multi-Function PDU



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COCKPIT ENGINE INSTRUMENTATION



Howell's Advanced Engine Instrumentation for the Black Hawk enables immediate access to critical flight mission parameters and calculations for flight crews. This patented, ruggedized system is designed to be a form/fit/function replacement of the original PDU, CDU and SDC in a UH-60 A/L model helicopter.

- System Power: 28 VDC
- Qualified to: MIL-STD-461, MIL-STD-704, MIL-STD-810

MFPDU

Multi-Function Pilot Display Unit

The MFPDU provides all normal engine indications plus:

- Single or dual torque available and torque reserve (torque available minus OGE)
- Max load capacity
- Dynamic gross weight
- Real-time performance data
- One engine inoperative data
- Declutter modes

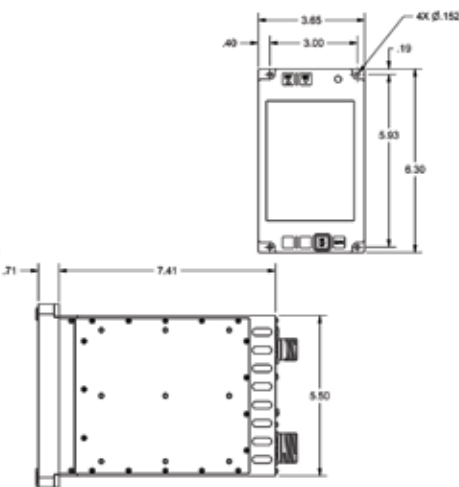
COMMUNICATIONS:

- EIA-422
- Digital Visual Interface

DISPLAY:

- AMLCD
- $\pm 45^\circ$ Horizontal Viewing Angle
- $\pm 20^\circ$ Vertical Viewing Angle

NVG COMPATIBLE



MFCDU

Multi-Function Central Display Unit

The MFCDU provides all normal engine indications plus:

- Digital map view capability
- FLIR or TVS capability
- Maintenance and mission planning data
- Downloadable maintenance data

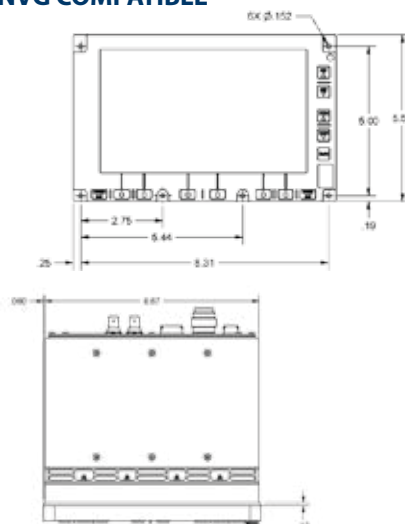
INTERFACES:

- 10/100 Base-T Ethernet
- USB 2.0
- MIL-STD-1553BC
- RS-170A
- RS-343

DISPLAY:

- AMLCD
- $\pm 45^\circ$ Horizontal Viewing Angle
- $\pm 20^\circ$ Vertical Viewing Angle

NVG COMPATIBLE



EDSC

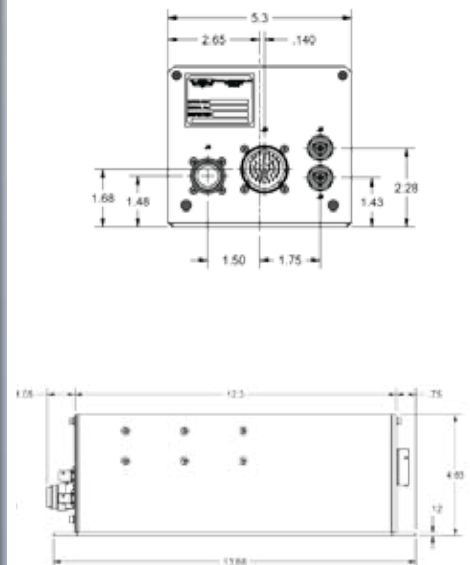
Enhanced Digital Source Collector

The EDSC provides:

- Real-time performance planning
- Real-time engine health

INTERFACES:

- 10/100 Base-T Ethernet
- USB 2.0
- EIA-422
- ARINC 429 RX-TX
- MIL-STD-1553RT
- Digital Visual Interface



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