MPCD
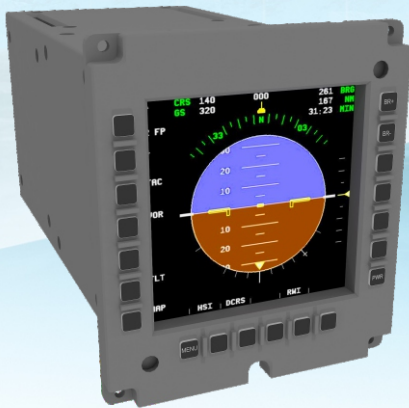## Multi Purpose Cockpit Display

An avionic instrument used as Head Down Display of Hawk 100/200 that allows display for pilot convenience to read all information of flight navigation data.

MPCD has already passed the airworthiness certification by IDAA (*Indonesian Defence Airworthiness Authority*) from Ministry of Defence of the Republic of Indonesia.

FEATURES:

1. Navigation & Radar Display
Displaying these flight data in real time and accurately:
- Navigation
- Route map
- ILS, VOR, and TACAN
- Position (longitude and latitude)
- Altitude, attitude, heading and airspeed.
- Flight plan
- Destination list
- Avionics monitoring status
- Course
- Alignment
- Track
- Wind direction and speed
- Radar

2. Fuel Quantity & Engine Performance
MPCD displays fuel quantity and engine performance of aircraft.

3. Compatible for Hawk 100 and Hawk 200
MPCD can be operated on Hawk 100 and Hawk 200 without any reprogramming.

4. Plug-and-play
Our MPCD is designed based on available equipment in Hawk 100/200 aircraft. We identified critical measurement, connectors and available wiring on aircraft to omit other equipment modification.

5. Brightness Adjustment
MPCD is equipped with softkey that can be used for adjusting brightness level of the display for pilot convenience.

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SPECIFICATIONS

Aircraft Type	
Type	: Hawk 100/200

Physical Data	
Length	: 365.75 mm
Width	: 180 mm
Height	: 202 mm
Weight	: 6.9 kg

Embedded System	
CPU	: Embedded Computer Unit
Memory	: Support Double Data Rate (DDR) DDR2 667 SDRAM up to 2GB 2nd Cache memory on processor

Display	
Screen Type	: Color LCD
Resolution	: 600 x 600 pixel
Aspect Ratio	: 1:1
Size	: 5"
Viewing angle	: 120o
Image Brightness in Day mode	: Max Luminance in white, Color : 2200 LUX
Image Brightness in night mode	: Max Luminance in white, Color : 9,25 LUX
Color Coordinate (Day Mode)	: R: 407 Lux G: 1450 Lux B: 190,3 Lux
Color Coordinate (Night Mode)	: R: 1,75 Lux G: 6,5 Lux B: 0,7 Lux

Embedded System	
Operating System	: Real Time OS
Bus Protocol	: MIL STD 1553B

Power	
Power Supply	: 28 VDC
Power Consumption	: 20 Watt
Current	: 0.71 A

Environment	
Temperature	: -20°C to +76°C (operation)
	: -20°C to +80°C (storage)
Vibration	: Up to 6g

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