

The PDU-159 is a fully digital, raster based and highly accurate “look through” display unit. The unit interfaces with the Mission Processor, MP-39 via a CAN bus for the unit control. For transferring video data - the displayed symbology, a HD-SDI link is routed between them. The PDU allows switching between day and night mode, the dual color backlight complies with any NVG (NVIS Class C, B, A).

PDU - 159

## Pilot Display Unit

The PDU-159 unit is part of SPEEL's HEAD-UP DISPLAY system.

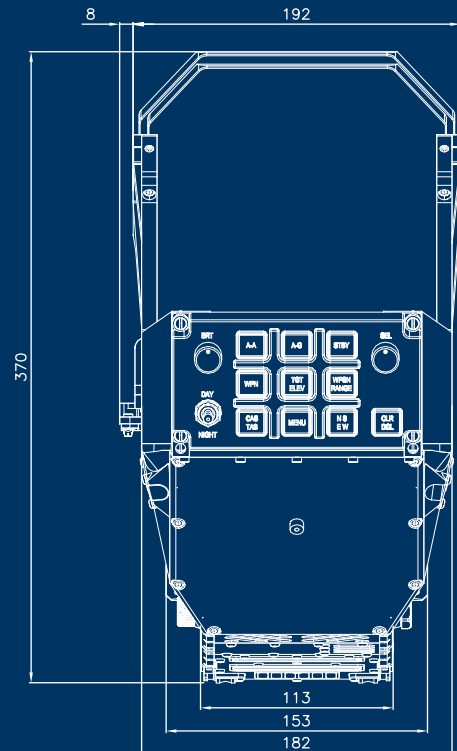
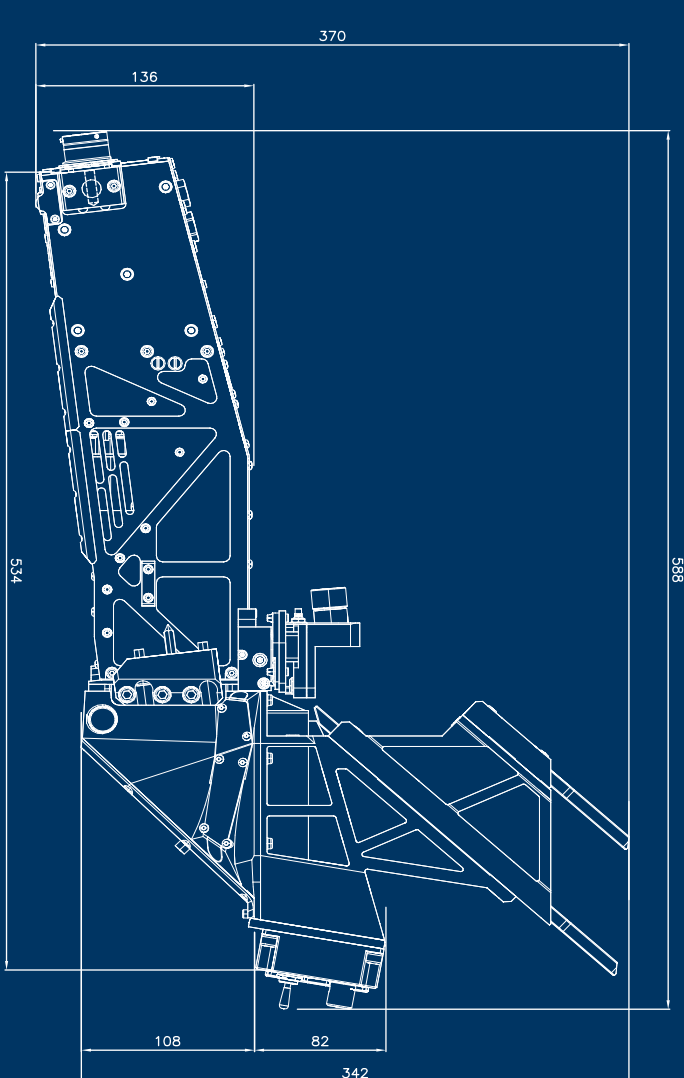
# Technical Specifications

Dimensions (w/h/l)	205x375x570 [mm]
Weight	< 11 kg
Power Supply	18 VDC to 32 VDC
Power Consumption	< 85 W at full brightness
Video Input	HD-SDI
Control Interface	CAN
Total Field of View (TFoV)	>25° x 25°
Brightness	> 3500 ftL (valid for a 2/pixel line thickness)
Contrast	> 1.21 : 1 (against 10.000 ftL ambient)
Display Resolution	1080 x 1080 p
Angular Resolution	0.42 to 0.43 mrad
Eye Motion Box (h/w)	>500 x 140 [mm]
Accuracy	< 1.0 mrad at 0°-10° < 1.5 mrad at 10°-25°
NVG compatibility	NVIS C, B, A
Environmental Compliance	MIL-STD-810F / MIL-STD-461E
Operating Temperature Range	-40°C to +60°C
MTBF	>10000 FH
Technical life	25 years A factory inspection shall be carried out every 8 years

[HEAD-UP DISPLAY]

[CVFDR]

On the body of the PDU-159 there is a preparation for mounting the ISU-159 camera. The up-front control panel is a separate LRU that mounts on the PDU-159 and connects electrically to Speel's MP-39 Mission Computer.



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Pilot Display Unit

**SPEEL**  
P R A H A

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