

# Rockwell Collins ProView™ SODAS-35



Improving soldier survivability, lethality and situational awareness around every corner

At Rockwell Collins we have integrated our ProView™ SO35-A Head Mounted Display (HMD), used on Mounted Warrior and our extremely rugged Dual Aperture Visible Sight (DAVS 200) to create the Rockwell Collins ProView™ SODAS-35 vision system.

Our system provides soldiers with improved situational awareness at the turn of every corner. The DAVS 200 mounts on the gun standard picatinny rail, allowing soldiers to look around the corner without putting themselves in harm's way. The DAVS relays the image to the HMD, giving the soldier a view of potential threats without the risk of exposure.

This durable and lightweight system enables the operator to adjust the brightness or to select video sources such as thermal and visible sensors and manportable PCs to view computer information, maps, GPS, data messaging and live video. The DAVS 200 offers 1.5x-, 6x- and 12x- magnification field of views (FOVs) providing target recognition from 5 to more than 400 meters. It is powered with a rechargeable battery pack for untethered use for up to 6 hours.

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## PERFORMANCE PARAMETERS

### DISPLAY - SO-35A, DISPLAY CONTROLLER (DCM)

#### DISPLAY MODULE (DM)

Image Source Type	Full-color AMOLED 800 (x3) pixels x 600 lines
Resolution	2.1 arcmin/color group
Luminance	0.1-30 foot-Lamberts
Contrast	>100:1
Field of View	28° Horizontal x 21° Vertical SVGA resolution (800 x 600)
Optics	Plastic aspheric lens
Eye Relief	Eyeglass compatible, >25 mm
Exit Pupil	Non-pupil forming

#### DAVS 200

Field of View	WFOV Channel: 23.3° diagonal NFOV Channel: 5.8° diagonal ZFOV Channel: 2.9° diagonal
Magnification	WFOV Channel: 1.5x NFOV Channel: 6.0x ZFOV Channel: 12.0x
Resolution	800 x 600 color
Video Output	per RS170A
Video In	per RS170A

## SYSTEM ELECTRICAL

Power	1.5W nominal, >6 hour normal operation life with 6 CR123 batteries
EXT Connectors	DAVS 200 connector J1 TWS video in

## SYSTEM MECHANICAL

Weight	DM: 185 grams DAVS 200: 380 grams DCM: 375 grams Battery pack: 500 grams
Finish	DM: flat blackpaint DAVS 200: flat black paint DCM: flat green paint Battery pack: flat black paint
User Interface	DM: display on/off switch DAVS 200: FOV select, push button switches for selecting video out and magnification DCM: DM brightness switches +/- Battery pack: Power on/off switch
Mounting	DAVS 200: Rail grabber (standard) Display Module: clip onto MICH helmet (standard) Clip on to belt
Display Controller & BatteryPack	

## SYSTEM DIMENSIONS

Display Module	.7" x 1.7" x 1.3"
Electronics Box	3.0" x 2.8" x 1.2"
DAVS 200	4.7" x 3.0" x 1.3"
Battery Pack	3.9" x 3.5" x 1.2"

## INTERCONNECT CABLE LENGTHS

DM to DCM QDC	24.5"
DCM to DM QDC	38"
DCM to battery pack QDC	24"
Battery pack to DAVS 200 QDC	40"
DAVS 200 QDC to battery pack	40"

## DESIGNED TO MEET THE FOLLOWING ENVIRONMENTAL PARAMETERS

Temperature	Operating: -5°C to +45°C Storage: -32°C to +71°C
Humidity	Six 48-hour cycles, 30°C to 55°C, 95% RH
Salt Fog	35°C ambient, four 24-hour cycles (two wet, two dry)
Functional Vibration	Random vibration between 20 Hz - 2000 Hz @ 0.040g <sup>2</sup> /Hz acceleration spectral density
Field Operational Shock	Up to P=40g's, T <sub>D</sub> =11msec
Moisture	Water resistant

### Building trust every day.

Rockwell Collins delivers smart communication and aviation electronics solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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