

# CHDD - 6.8/1-VP



## Primary flight display Analog/digital video input display

### Main features

- 6" x 8" AMLCD color screen
- 800 x 600 SVGA resolution (640 x 480 optional)
- NVG compatibility option with day/night mode selection
- Extensive Built-In Testing (BIT)
- Analog video input multiplexer
- Digital video input
- Software loadable through connector
- Several keyboard options
- RS-422 keyboard communication
- Ambient Luminance Control
- Wide viewing angle
- Portrait/landscape mode
- Can be connected with MOSArt™ processing unit

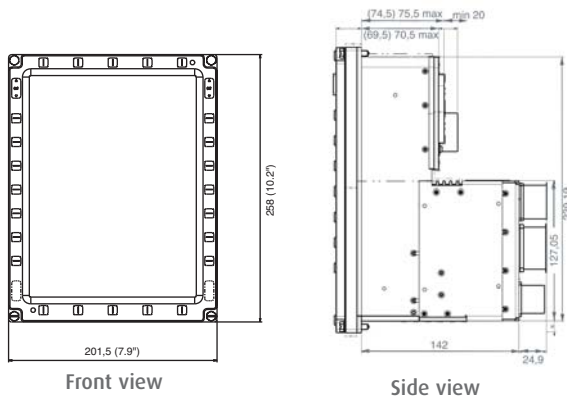
The CHDD-6.8/1-VP, Barco's Cockpit Head Down Display for analog/digital video, can be used as a Primary Flight or Mission Display. The display features a high resolution, sunlight readable 6" x 8" Active Matrix Liquid Crystal Display (AMLCD). This technology provides high brightness, excellent contrast and reduced volume with low power consumption.

Various bezel options are available allowing the CHDD-6.8/1-VP to fit into various avionics architectures for both new and retrofit aircraft.

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# Technical specifications



Generic

Integrated CRS/HDG and slip indicator

## ELECTRO OPTICAL

Panel type: AMLCD (Silicon TFT)  
 Panel active area: 211.2 x 158.4 mm / 8.31" x 6.23"  
 Panel resolution: 800 x 600 (SVGA)  
 Screen specifications: 264,144 colors, 64 greyscales  
 Brightness: White surface luminance 220 fl, 753.7 cd/m<sup>2</sup>  
 Contrast ratio: >150:1 @ dark environment; >7:1 @ 10,000 fc  
 Anti reflection: Multilayer coating MIL-C-14806  
 NVG compatibility: MIL-STD-3009 (optional)  
 Color temperature: >5000 K  
 White non-uniformity: Less than 30%  
 Viewing angle:  
 Portrait: Horiz: +/-40° Vert: +/-15°  
 Landscape: Horiz: +/-40° Vert: +/-15°

## INTERFACES

Inputs  
 Digital (max. 2): LVDS digital video  
 Analog (max. 4):: STANAG 3350B/C, RS170, RS343, PAL, NTSC, SVGA/VGA  
 Output: RS-422 keyboard communication  
 Backup digital video/power cross-link  
 Programmable analog input resolution scaling  
 Analog input picture rotation  
 Mixing of 2 analog signals with digital LVDS

## CONTROLS

Controls (front): Brightness, up/down rocker switch  
 Keys: Special function keys, customer selectable softkeys  
 Automatic Light Control 2 light sensors

## GENERAL DATA

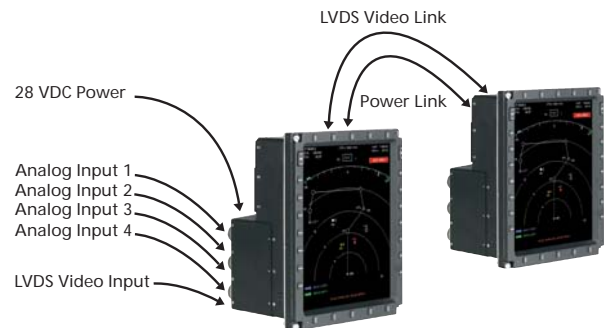
Power supply: Std. 28 Vdc, MIL-STD-704A  
 Power consumption: Operating: 66W, cold start: 215W  
 Weight: 5.5 kg / 12.1 lbs  
 Cooling: Internal fan, cooling via cold wall  
 MTTR: Less than 0.5 Hours  
 Built-In Testing: IBIT, CBIT, PBIT  
 Software: RTCA/DO-178B

## ENVIRONMENTAL

Military version: MIL-STD-810E  
 Civil version: RTCA/DO-160D  
 High temperature: +55°C / +131°F operational, +71°C / +160°F (30 mins)  
 Low temperature: -40°C / -40°F operational, Warm-up time: 5 min. Operational: 10 min. full specs  
 Humidity: Up to 95% RH; 60°C condensing  
 Vibration: MIL-STD-810E  
 Shock: 15 G - 11 ms half sine  
 Altitude: 30,000 ft (operational)  
 EMI/EMC: MIL-STD-461C/462D  
 MTBF (calculated): 10,000 hrs (AIC), excluding backlight

## OPTIONS

- 640 x 480 VGA resolution
- For other custom options, please contact Barco



In search of continuous improvement

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