

CHDD-268



6x8 inch Cockpit Head Down Display

Main features:

- Various input options:
 - 2 Digital Video Inputs (DVI)
 - Various possible analog video inputs (video composite, VGA to XGA RGB (SoG or +H,+V), STANAG 3350A, B & C,...)
- Extra wide viewing angle
- Compact design
- Various keyboard options
- Compatible with night vision option including day/night mode selection
- Ambient luminance control
- Software loadable through connector
- Compatible with MOSArt™ processing unit
- Optional compatibility with ARINC 817 and ARINC 818 video standards
- Extensive Built-In Testing (BIT)

The CHDD-268 is an advanced, 6x8 inch avionics displays that accepts both digital video inputs (DVI) and most of the currently available analog video inputs (Composite, RGB, STANAG,...). Truly innovative, the CHDD-268 also anticipates for the latest ARINC 817 and 818 digital video standards.

Equipped with sunlight-readable AMLCD and LED backlight technology, the CHDD-268 provides not only exceptionally high brightness and excellent contrast, which have become the hallmark of Barco's avionics displays, but also a very wide viewing angle of 80° in all directions. It allows the same unit to be used in portrait as well as landscape mode.

The use of advanced electronics allows for a very compact footprint (maximum 4" depth) and low power consumption.

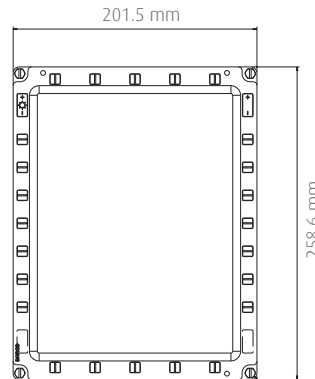
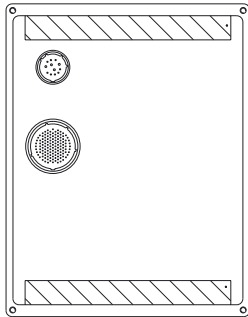
The innovative CHDD-268 unit is DO-178B and DO-254 certified up to level A. Because of this, the display can be used as Primary Flight Display (in combination with an external symbol generator) in almost any type of aircraft.

Unique infrared touch screen option

For maximum user-friendliness, the advanced CHDD-268 display can be equipped with a unique infrared touch screen control option. The NVG compatible, infrared technology enables a very high degree of pointing precision and allows the CHDD-268 display to be used as a powerful graphical control interface.

The LED-based touch screen provides an intuitive and ergonomic way of controlling the aircraft's systems and largely increases the status awareness without degrading the optical quality of the display in any way.

Technical specifications



ELECTRO OPTICAL

Panel type: AMLCD (Silicon TFT)
 Panel active area: 158.2 x 211.1 mm / 6.23 x 8.31"
 Panel resolution: 1024 x 768
 Screen specifications: 262,144 colors
 64 grayscales (253 with dithering)
 Brightness: White surface luminance 250 fL, 856 cd/m²
 Contrast ratio: >500:1 @ dark environment; >10:1 @ 10,000 fC
 Anti reflection: MIL-C-14806A
 Colors: Extended color gamut thanks to LED backlight
 NVG compatibility: MIL-STD-3009 Class B Type II NVIS (optional)
 Color temperature: >5000 K
 White uniformity: better than 30%
 Viewing angle: Horz: +/-80°, Vert: -80°/+80°

INTERFACES

Inputs: DVI digital video (maximum 2)
 Analog video (maximum 4, depending on format)
 Output: RS-422 keyboard communication

GENERAL DATA

Power supply: 28 Vdc, MIL-STD-704A
 Power consumption: 70W at 150 fL (operating)
 Extreme low temperature start with heater: 150W (typ.)
 Weight: 3.5 kg / 7.8 lbs
 Cooling: Internal fans, cooling via cold wall
 MTRR: Less than 0.5 Hours
 Built-In Testing: IBIT, CBIT, PBIT
 Software: RTCA/DO-178B Level A
 Hardware: RTCA/DO-254 Level A

ENVIRONMENTAL

Military version: MIL-STD-810 E
 Civil version: RTCA/DO-160E
 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, RTCA/DO-160E
 Shock: 20 g
 Altitude: 50,000 ft (operational)
 EMI/EMC: MIL-STD-461D/462D
 MTBF (calculated): 15,000 hrs (AIC)

CONTROLS

Controls (front): Brightness, Up/Down rocker switch
 Keys: Special function keys, customer selectable softkeys
 Optional infrared touch screen
 Automatic light control, 2 light sensors

OPTIONS

- Picture in Picture (PIP) digital/analog or analog/digital, scaling, rotating, image dithering capabilities for FLIR cameras
- ARINC 817/818 video input compatibility
- Composite video output
- IR touch screen
- Bezel with rotary buttons and/or joystick
- For other custom options, please contact Barco

Barco

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