

CHDD-268

Next generation 6 x 8 inch Cockpit Head Down Display



The CHDD-268 is an advanced, very compact 6 x 8 inch avionics displays that accepts both digital video inputs (DVI) and most of the currently available analog video inputs (Composite, RGB, STANAG,...). It is fully compatible with Barco's PU-2000 Processing Unit.

Equipped with sunlight-readable AMLCD and LED backlight technology, the CHDD-268 provides exceptionally high brightness, excellent contrast, and a very wide viewing angle in all directions. It allows the same unit to be used in portrait as well as landscape mode.

The innovative CHDD-268 unit is DO-178B and DO-254 certified up to level B. Because of this, the display can be used as Primary Flight Display (in combination with an external symbol generator like the PU-2000) in almost any type of aircraft.

Technical specifications

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/m ²
Contrast ratio	>500:1 @ dark environment >10:1 @ 10,000 fC
Anti-reflection	MIL-C-14806A
Colors	Extended color gamut thanks to LED backlight
NVIS	MIL-STD-3009 Class B Type II NVIS (optional)
Color temperature	<5000 K
Viewing angle	Horz: +/-80°, Vert: -80/+80°
Video inputs	DVI digital video (maximum 2) Analog video (maximum 6, depending on format)
Control	RS-422 keyboard communication
Power supply	28 Vdc, DO-160E
Power consumption	70W at 150 fL (operating)
Weight	3.5 kg / 7.8 lbs
Cooling	Internal fans, cooling via cold wall
MTRR	Less than 0.5 hours
Built-in testing	IBI, CBIT, PBIT
Software	RTCA/DO-178B Level B (D for analog inputs)
Hardware	RTCA/DO-254 Level A (D for analog inputs)
Military version	MIL-STD-810E
Civil version	RTCA/DO-160E
High temperature	+55°C / +131°F operational, +71° / +160°F (30 mins)
Low temperature	-40°C / -140°F operational
Warm-up time	5 min.
Humidity	Up to 95% RH, 60°C condensing
Vibration	DO-160E
Operational shock	DO-160E 6g
Altitude	50,000 ft (operational)
EMI / EMC	DO-160E
MTBF	15,000 hrs (AIC)
Front controls	Brightness Up/down rocker switch
Control 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
- Contrast control on second rocker switch
- Composite video output
- IR touch screen
- Bezel with rotary buttons and/or joystick
- For other custom options, please contact Barco