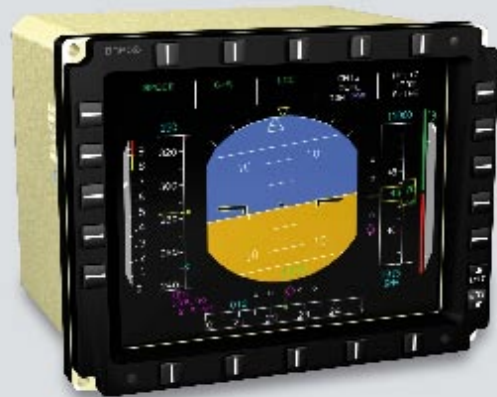


# CHDD-254



## 5x4 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
- Extensive Built-In Testing (BIT)

The CHDD-254 is an advanced, 5x4 inch avionics displays that accepts both digital video inputs (DVI) and most of the currently available analog video inputs (Composite, RGB, STANAG,...).

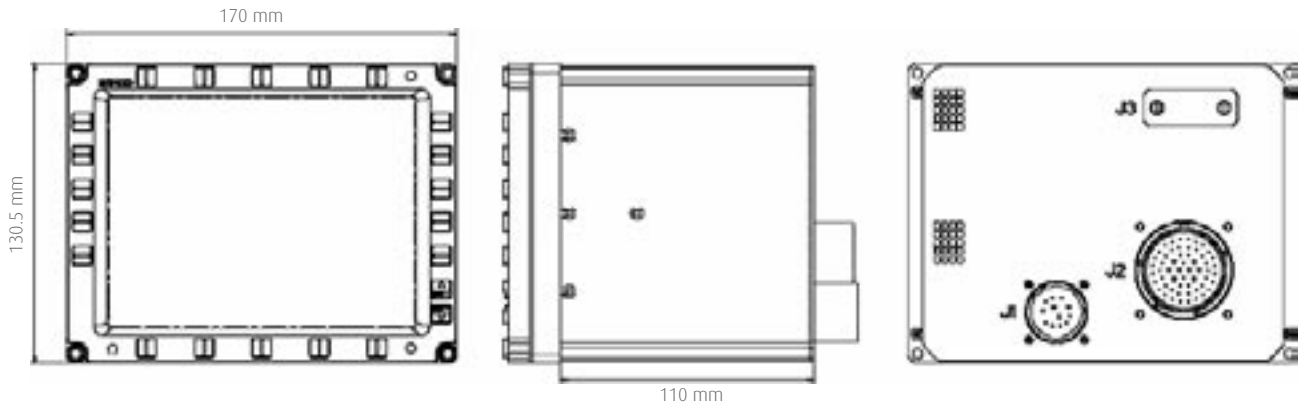
Equipped with the latest, sunlight-readable Active Matrix Liquid Crystal Displays technology, the CHDD-254 provides exceptionally high brightness and excellent contrast. The use of advanced electronics allows for a very compact footprint (maximum 4.5" depth) and low power consumption.

The innovative CHDD-254 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.

**BARCO**

Visibly yours

# Technical specifications



## ELECTRO OPTICAL

Panel type:	AMLCD (Silicon TFT)
Panel active area:	132.5 x 99.4 mm / 5.22" x 3.91"
Panel resolution:	640 x 480
Screen specifications:	262,144 colors, 64 greyscale
Brightness:	White surface luminance 250 fL, 856 cd/m <sup>2</sup>
Contrast ratio:	>400:1 @ 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 uniformity:	better than 30%
Viewing angle:	Horz: +/-60°, Vert: -15°/+45°

## INTERFACES

Inputs:	DVI digital video (maximum 2) Analog video (maximum 4, depending on format) RS170, NTSC, PAL, VGA to XGA RGB (SoG or +H, +V), STANAG 3350A, B & C, or customer defined
Output:	RS-422 keyboard communication

## CONTROLS

Controls (front):	Brightness, Up/Down rocker switch
Keys:	Special function keys, customer Selectable softkeys Automatic Light Control 2 light sensors

## OPTIONS

- Picture in Picture (PIP), scaling, rotating, dithering image capabilities
- Composite video output
- Bezel with rotary buttons and/or joystick
- For other custom options, please contact Barco

## GENERAL DATA

Power supply:	28 Vdc, MIL-STD-704A
Power consumption:	45W (operating)
Extreme low temperature start:	85W (typ.)
Weight:	2.3 kg / 5.0 lbs
Cooling:	Internal fans, cooling via cold wall
MTR:	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
Shock:	20 g
Altitude:	50,000 ft (operational)
EMI/EMC:	MIL-STD-461D/462D
MTBF (calculated):	15,000 hrs (AIC)

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Technical specifications are subject to change without prior notice