

# FDU-2129



## 12x9 inch Flight Display Unit for business aviation

### Main features:

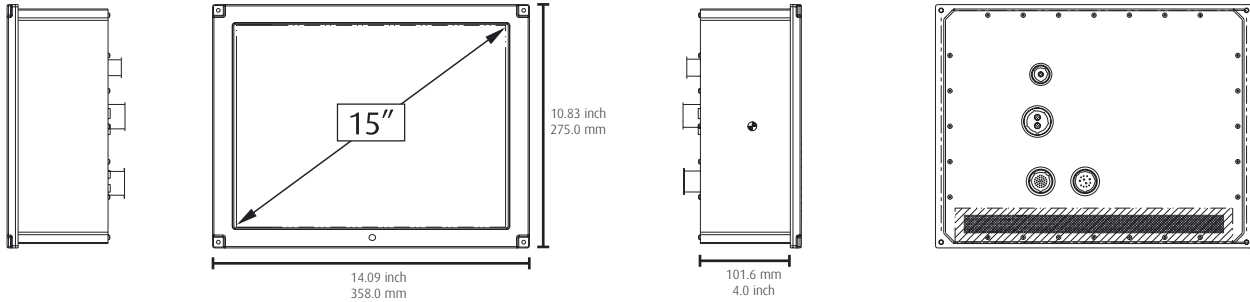
- Up to 2 DVI digital video inputs
- 24 line select keys
- Extra wide viewing angle
- Compact design and low weight
- Low power consumption
- Fully compatible with the MOSArt™ open system processing unit
- Optional dual ARINC 818
- Extensive Built-In Testing (BIT)
- ETSO/TSO C-113 certified
- DO-178B & DO-254 certified (level A)

The FDU-2129 display is an all-new, state-of-the-art 12x9 inch avionics display for use aboard turboprop aircraft and light jets. Building on the innovative technology of the Barco CHDD-2000 display family, the FDU-2129 is designed to integrate seamlessly into any digital Electronic Flight Instruments System. The advanced display features two separate DVI digital video inputs.

Equipped with the latest, sunlight-readable Active Matrix Liquid Crystal Displays technology, the FDU-2129 provides not only the exceptionally high brightness and contrast which have become the hallmark of Barco's avionics displays, but also an excellent viewing angle of 80° in all directions.

The innovative FDU-2129 display is level A DO-178B and DO-254 certified. As a consequence, it can be used as a Primary Flight Display (in combination with an external symbol generator) in almost any type of aircraft. The use of advanced electronics results in a very compact footprint and low power consumption.

# Technical specifications



## ELECTRO OPTICAL

Panel type: AMLCD (Silicon TFT)  
 Panel active area: 304.1 x 228.1 mm / 12.0" x 9.0"  
 Panel resolution: 1024 x 768  
 Screen specifications: 262,144 colors, 64 greyscales (253 w/dithering)  
 White surface luminance: 150 fL/513 cd/m<sup>2</sup>  
 Contrast ratio: >400:1 @ dark environment  
 >10:1 @ 10,000 fC  
 Anti reflection: Multilayer coating, MIL-C-14806A  
 Backlight: LED backlight, full color  
 Viewing angle: Horz: +/-65°  
 Vert: +35° -15°

## INTERFACES

Inputs: 1 or 2 DVI digital video  
 Dual ARINC 818 (optional)  
 Input/Output: RS-422 keyboard communication

## CONTROLS

Controls (front): Brightness Up/Down rocker switch (optional)  
 Keys: Special function keys, customer selectable softkeys  
 Automatic Light Control, 1 light sensor

## GENERAL DATA

Power supply: 28 Vdc  
 Power consumption: 55 W at 100 fL (operating)  
 Weight: 5.5 kg / 12.13 lbs  
 Cooling: Passive cooling via cold wall  
 Built-In Testing: CBIT, PBIT  
 Software: RTCA/DO-178B Level A  
 Hardware: RTCA/DO-254 Level A

## ENVIRONMENTAL

Civil version: RTCA/DO-160E  
 High temperature: +55°C / +131°F (operational)  
 +70°C / +158°F (30 mins)  
 Low temperature: -20°C / -4°F (operational)  
 Warm-up time: direct start  
 Humidity: Up to 95% RH; 60°C condensing  
 Vibration: RTCA/DO-160E  
 Shock: 20 g  
 Altitude: 45,000 ft (operational)  
 MTBF (calculated): 20,000 hrs

DO 160E Env.Cat.D1VAAB[SBB3M,HR]EWFDFSZ[A,B]ARZCWMA3)33XXAC

## OPTIONS

For other custom options, please contact Barco



## Barco

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