FDU-2000 family

Flight Display Units for business aviation

BARCO

Visibly yours

Displays beyond comparison for today's business aircraft

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Drawing on its proven avionics display technology used in more than 85 different aircraft types, Barco has created a range of budget-friendly Flight Display Units for use aboard turboprop and light jets. The top-of-the-line FDU-2000 line provides business jet pilots with large views in high-resolution that result in outstanding situational awareness.

Various sizes and configurations

The FDU-2000 flight display line is available in a variety of sizes and configurations. Cockpit manufacturers can opt for the 6 x 8 inch FDU-268 or the 12 x 9 inch FDU-2129. What's more, the FDU-268 can be used in portrait as well as landscape mode, bringing maximum configurational freedom to the cockpit.

Features & benefits

- Available in 6 x 8 inch and 12 x 9 inch
- High-resolution (1024 x 768) screen
- Up to 2 DVI digital video inputs
- Optional dual ARINC 818 input
- Extra wide viewing angle
- Compact design and low weight
- Extensive Built-In Testing (BIT)
- ETSO/TSO C113 certified
- DO-178B & DO-254 certified (level A)
- Compatible with the MOSArt™ open system processing unit
- Unique LED backlight technology

Certified up to level A

The FDU-2000 Flight Display Units are DO-178B and DO-254 certified up to level A. This means that they can be used as a Primary Flight Display (in combination with an external symbol generator) in virtually any type of aircraft.

FDU-2129 (12 x 9 inch)

Easy integration

The FDU-2000 displays are fitted with leading edge electronics that enable a very compact footprint and minimum power consumption. Because of this, the FDU-2000s integrate easily into the digital Electronic Flight Instruments System of nearly all new and retrofit cockpits.

FDU-268 (6 x 8 inch) *FDU-268 (8 x 6 inch)*

Excellent visual performance

As all other Barco avionics displays, the FDU-2000 family uses state-of-the-art Active Matrix Liquid Crystal Display (AMLCD) technology, delivering exceptionally high brightness and excellent contrast. Moreover, the displays' XGA resolution (1024 x 768) guarantees highly detailed renderings of all navigation and terrain symbology. Finally, the wide viewing angle of 80° allows for optimum cross-cockpit scanning by either pilot.

Dual DVI video input

The FDU-2000 flight displays come with two separate DVI digital video inputs. A dual ARINC 818 input is also available as an option.

State-of-the-art LED technology

State-of-the-art LED backlights deliver excellent brightness and maximum reliability over the entire lifetime of the display. Moreover, the LED technology ensures a wide viewing angle in all directions and an extremely broad color gamut for perfect color representations.

Technical specifications

ELECTRO OPTICAL

Panel type:	AMLCD (Silicon TFT)
Panel active area:	
FDU-268:	158.2 x 211.1 mm / 6.23" x 8.31"
FDU-2129:	304.1 x 228.1 mm / 12.0" x 9.0"
Panel resolution:	1024 x 768 (XGA)
Screen specifications:	262,144 colors, 64 grayscales (253 grayscales with dithering)
Brightness:	White surface luminance 150 fL, 513 cd/m^2
Contrast ratio:	>400:1 @ dark environment >10:1 @ 10,000 fC
Anti reflection:	Multilayer coating, MIL-C-14806A

INTERFACES

Inputs:	2 DVI digital video Dual ARINC 818 (optional)
I/O:	Keyboard communication via RS-422

CONTROLS

Controls (front):	Brightness
Keys:	Special function keys Customer selectable softkeys Automatic Light Control via 1 sensor

DISPLAY ORIENTATION

FDU-268:	Landscape or portrait
FDU-2129:	Landscape only

GENERAL DATA

Power supply:	28 Vdc
Power consumption:	
FDU-268:	45W at 100 fL (operating)
FDU-2129:	55W at 100 fL (operating)
Weight:	
FDU-268:	3.2 kg / 7.11 lbs
FDU-2129:	5.5 kg / 12.22 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

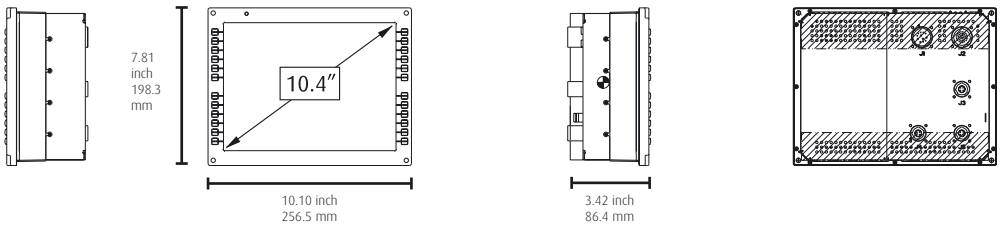
Compliance:	RTCA/DO-160E
High temperature:	+55°C / +131°F (operational) +70°C / +158°F (30 mins)
Low temperature:	-20°C / -4°F (operational)
Warm-up time:	direct start
Humidity:	Up to 95% RH; 60°C condensing
Vibration:	RTCA/DO-160E
Shock:	20 g
Altitude:	45,000 ft (operational)
MTBF (calculated):	20,000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

DO-160E Env.Cat.D1VAAB[SBB3M,HR]EWFDFSZ[A,B]ARZCWMA3J33XXAC
ETSO-C113

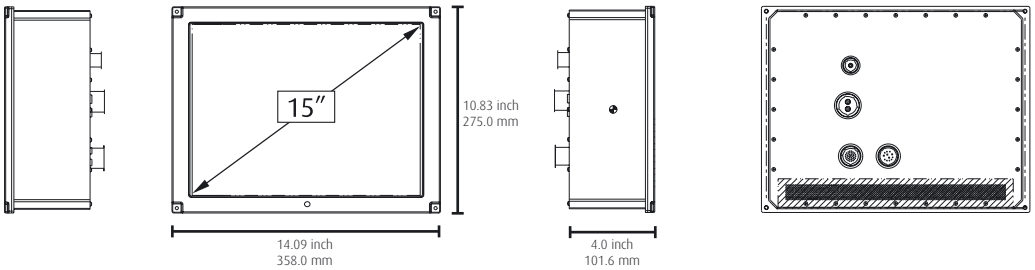
OPTIONS

For other options, please contact Barco

FDU-268



FDU-2129



Sigma

In search of continuous improvement

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