

FD 471



28" Flat Display

Main features:

- 2K x 2K resolution
- 20" x 20" viewable area
- Low life cycle cost
- No image artifacts thanks to Automatic Phase Adjust functionality
- 4 removable backlight trays
- Low-weight, small-depth solution
- 150 Cd/m² light output
- 30g - 12.5 ms half sine
- 0° to 55°C operating temperature
- Optional LCD Flicker Compensation (patented solution)

The FD 471 is Barco's 28" flat display, specifically designed for use as main operational display in military Air Traffic Control applications. The unit offers superior optical performance in semi-harsh environments. Its bright output clearly displays detailed information, offering enhanced user comfort and counteracting eye-fatigue. The FD 471 is the semi-rugged version of Barco's 28" air traffic control display, which has a worldwide installed base of over 1,600 units.

Barco's FD 471 features four field-replaceable backlight trays for consistent image quality and reduced life cycle cost. The display's low weight, low power, small volume and versatility allow console designers a new degree of freedom to reduce costs and improve operator comfort and performance over traditional CRT solutions.

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Technical specifications

ELECTRO OPTICAL

Panel type	Analog Active Matrix LCD
Panel size	712.4 mm (28.05") diagonal
Pixel dimensions	0.246 x 0.246 RGB vertical stripe
Resolution	2048 x 2048 pixels
Image Dimensions	503.8 x 503.8 mm (19.83" x 19.83")
Panel Specifications	16M colors, 256 gray scales per color
Brightness	min. 150 cd/m (43.8 ft)
Contrast Ratio	150:1 typ. in dark environment
Color Temperature	≥ 7500°K
White Uniformity	≤ 25%
Viewing Angle	Horizontal and Vertical: ± 80° (CR ≥ 10)

ENVIRONMENTAL

Low operating temperature	0°C / +32°F (MIL-STD-810E)
High operating temperature	+55°C / +131°F (MIL-STD-810E)
Low storage temperature	-40°C / -40°F (MIL-STD-810E)
High storage temperature	+70°C / +158°F (MIL-STD-810E)
Humidity	80% @ 35°C (MIL-STD-810E)
Vibration	MIL-STD-167-1
Shock	30g - 12.5 ms half sine (MIL-STD-810E)
Altitude - operating	10,000 ft (MIL-STD-810E)
Altitude - storage	35,000 ft (MIL-STD-810E)
EMI/EMC (MIL-STD-461D)	TBD
FCC	FCC A
MTBF (MIL-HDBK-217F)	GB at 10°C: >50,000 hrs
Safety	IEC 950

CONNECTIONS

Signal Inputs	Coax BNC connectors for analog input DVI-D connector for digital input
RS-232 Serial Port	9 pin sub-D connector
Power	DIN plug

CONTROLS & INDICATORS

Bezel Controls	MENU / UP / DOWN / ENTER in conjunction with On Screen Display (OSD)
Bezel Indicators	Green 'Power' LED Red 'Fault' LED Red 'Overtemp' LED
BIT	Built-in Test Pattern
OSD	On-Screen Display

POWER

Power Supply	115 Vac
Guidelines	MIL-STD-704C
Power Consumption	Nominal 200 W
Connector:	Circular MIL

GENERAL DATA

Mounting	Panel mount
Weight	< 24 kg / 53 lbs
MTTR	Less than 0.5 hours

ADDITIONAL FEATURES

Power supply	220 Vac 28 Vdc
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ON REQUEST

Second input

BarcoView

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In search of continuous improvement

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Technical specifications are subject to change without prior notice

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