LED TECHNOLOGY **4** MP **5Y** WARRANTY BLOS

OSD WIDE VIEW **1:1** RATIO **28"** SCREEN

With Barco's ISIS 2Kx2K LCD main display for ATC controller working positions, every aircraft is led safely through today's crowded airspace. Since its introduction in 2000, ISIS has become the world's leading ATC display both in new installations and as a direct replacement for the Sony DDM CRT display.

Main display with LED backlights

ISIS displays use mercury-free and energy-saving LED backlights, reducing power consumption by 20%. The display screen offers real-time controlled brightness, which results in more detail, enhanced user comfort and less eye-fatigue.

Leading the way to green efficiency

The **4 MegaPixel LCD** displays and graphics controllers of the ISIS family combine performance, low life cycle cost, user comfort and eco-friendliness into an innovative visualization architecture. ISIS always features the latest LCD panel technologies, presenting an ergonomic solution for ATC controller workstation positions.

ISIS displays are **highly redundant** (4 backlight trays with 3 LED drivers each), do not require regular replacements and have an extremely **low life cycle cost**. The backlight tray is connector based (no fragile wires to disconnect), so maintenance is very easy.

The display's **low weight, low power**, small volume, high brightness and mechanical flexibility provide control center designers with a new degree of freedom to reduce plant and energy costs and improve operator comfort and performance.

BARCO

Visibly yours

ISIS (MDP-471/3)

28" LCD Main Display with LED backlights

Why choose ISIS:

· Low life cycle cost
· Outstanding visual performance
· Flexible implementation
· Extensive manufacturing capabilities
· Long-term support
· Worldwide acceptance
· Small ecological footprint

Product specifications — ISIS (MDP-471/3)

Product specifications	ISIS (MDP-471/3)
Active screen area	503.8 x 503.8 mm (19.83 x 19.83")
Active screen diagonal	712.4 mm (28.05")
Brightness	• 240 cd/m² calibrated • Max brightness > 300 cd/m²
Dimming ratio	typically 100:1
Contrast ratio	• Min 700:1 - typically 1000:1 in dark environment • Front glass with high-quality anti-reflective treatment
Color temperature	adjustable between native, D65 and custom
Display colors	16.7 Mio (24bit)
Pixel arrangement	RGB vertical stripe
Response time	• Tr (black to white transition): 14.5 ms, max 17 ms • Tf (white to black transition): 4.8 ms, max 13 ms
Viewing angle	hor. & vert. (min) ±85° typical
Removable backlight system	4 identical trays - field replaceable
LED lifetime	> 100.000 hours
Video inputs	• Modular input system; up to 3 inputs can be installed • 1 analog input / up to 3 DVI inputs(Multiple analog inputs using serial controlled video switch) • Input selection by control system or via serial commands
Analog RGB	• Connector type: 5 x BNC • Termination: R,G,B 50 Ohm; HS, VS 75 Ohm • Signal standard: 0.714V p-p • Resolution: 2048 x 2048 - 60 Hz • Timing: hor. frequency 126.84 kHz • Sony DDM compatible • Other details on request
DVI	• Modular modules • Connector type: DVI Panellink • Resolution: 2048 x 2048 - 60 Hz • Dual Link DVI • Multisync capability
Control possibilities	• Front control module / OSD • Maintenance keypad • Remote serial control • Network - SNMP • Front control module also available separately to be integrated into the controller working position
Automatic functions	• Automatic Phase Adjust (APA) • backlight aging compensation • BLOS = backlight optical stabilization (real-time feedback loop through continuous measurement) • Auto mains voltage adapt • Auto amplitude (during setup) • Auto stand by (if enabled)
Power Supply	• Nominal voltage: 115 Vac & 230 Vac • Operates between: 90-264 Vac • Frequency range: 45-65 Hz
Power consumption	• Pnom is typ 120 Watt • Pmax is typ 150 Watt • Power connector type: IEC • Optional: Dual Power supply for redundancy
Chassis version	• HxWxD: 595 x 595 x 150 mm (23.42 x 23.42 x 5.9 inch) • Weight: 19.8 kg (44 lbs)
Panel-mount version	• HxWxD: 595 x 595 x 150 mm (23.42 x 23.42 x 5.9 inch) • Including bezel: HxWxD: 659x668x158 (25.9 x26.2 x 6.22) • Weight: 22 kg (48.2 lbs)
Desktop version	• HxW: 659 x 668 mm (25.9 x 26.2 inch) • Weight: 32 kg (71 lbs)
Operating temperature	10°C to 40°C (50°F to 104°F)

Product specifications	ISIS (MDP-471/3)
EMI / EMC	· EN55024 which covers : EN61000-4-2,3,4,5,6,11,8 · EN55022 · FCC TITLE 47 part 15 class A · CES-003
Safety	· UL60950-1 1st edition · CSA C22.2 No. 60950-1-03 1st Edition · IEC60950-1 1st edition · CE, CCC
Input modules	Analog / DVI
Options	· Protective Front filter flavors (Contact Barco for alternative solutions) · Spare backlight tray set · Mechanical conversion kits · Fine dust filter · Maintenance training · Dual Power supply support · Extended warranty services · Backlight replacement program
Backlight Output Stabilization (BLOS)	yes
Dimensions	Various models
Ambient Light Compensation (ALC)	no
Front glass	no bonded front glass
Touch screen	no

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