

## Technical specifications

### DISPLAY

#### General

Active display area:	503.8 x 503.8 mm (19.83 x 19.83 inch)
Active screen diagonal:	712.4 mm (28.05 inch) Equivalent to 29 inch glass size
Active screen resolution:	2048 x 2048 pixels (4.2 MP)

#### Luminance

Peak brightness:	> 240 cd/m <sup>2</sup>
Brightness:	150 cd/m <sup>2</sup> calibrated
Dimming ratio:	typically 100:1

#### Contrast ratio

200:1 in dark environment  
Front glass with high quality, anti-reflective treatment

#### Color performance

Color temperature: 7500°K typical  
Display colors (without dithering): 16.7 Mio (24bit)

#### Pixel arrangement: RGB vertical stripe

Hor. & vert. pitch 0.246 mm (103 dpi)

#### Viewing angle

Hor. & vert. (min.) +/-80° typical

#### Removable backlight system

Stabilized using optical feedback system  
4 trays - field replaceable  
Lamp lifetime typically >25,000 hrs

#### Controls

Front control module / On Screen Display  
Maintenance keypad

Control module also available separately to be integrated into console

### ENVIRONMENTAL

Temperature, operating:	10 to 40°C
EMI/EMC:	designed for FCC Class A Vol II, EN 5082-2
Safety:	designed for UL950, cUL1950, IEC950, CE, CCC
Noise:	designed for <45 dBA



Integrated display server offering full connectivity

### PROCESSING

#### Visualization specifications

- Single X11R6.6 server supporting all graphics outputs
- Fast boot (time from power-on to full operation <60s)
- BITE with full SNMP support
- Network agents (both secure and non-secure)
- Multi-layer graphics support for transparent windows
- Anti-aliased line drawing (hardware assisted)
- Flexible configuration for multi-display cursor travel

#### Hardware specifications

- PS/2 or USB interfaces
- USB 2.0 interfaces for optional peripherals
- RGB output to auxiliary display
- Internal system memory 512 MB (optional 1 GB)
- 10/100BaseT Ethernet
- RS-232

### ELECTRICAL

PFC corrected power supply with 110 – 230 VAC Mains, 50 – 60 Hz, autoswitching

### MECHANICAL

Same outline as ISIS™

Same versions as ISIS™: Chassis version  
Panel-mount version  
Desktop version  
VESA-mount

Weight chassis version: less than 25kg (55 bs)

### OPTIONS

- Support for up to three auxiliary displays
- Support for up to three network connections
- Spare backlight tray
- Mechanical conversion kits
- CHECKUP!™ maintenance software
- TELLAR™ display recording software
- ODS Toolbox® Window Manager
- ILS package

## Barco traffic management

Barco's high-end visualization solutions for Operational Display Systems have been selected by leading system integrators and air navigation service providers worldwide. Its complete product range for real-time traffic control, makes Barco a unique one-stop supplier of advanced components for traffic management applications.

A continued, focused investment in research and development has resulted in a unique expertise in providing high-performance, state-of-the-art solutions for today's advanced working positions. Barco's worldwide facilities are fully equipped for in-house design, development, testing and manufacturing. ISO 9001 certification, complete control of the production process, extensive environmental testing programs, worldwide customer support and project-specific customization, confirm Barco's commitment to technologically advanced, cost-competitive solutions.

Barco's expertise in providing high performance display systems is supported by a worldwide network of research, development and support services. A global sales organization, with regional support people who understand your language and requirements, complements Barco's partnership approach.



Integrated display station

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Ref. TRM 04-002 - Feb '04

Technical specifications are subject to change without prior notice

Contact one of the above for your local sales office

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Isona™

## ISONA™: the new heart of the OPS room

To keep up with today's fast technological evolutions, modern traffic management environments need high-performance system components offering maximum flexibility, modularity and upgradability. Barco, a world-leader in imaging technology, has demonstrated expertise in the development of truly innovative solutions that meet today's and tomorrow's challenges in safe and efficient traffic management.

Building upon the success of ISIS™, the world's first large screen flat panel display for Air Traffic Management, and VISONA™, Barco's single-box multiple display server, Barco now introduces ISONA™, the latest addition to its innovative component line for the ATC market. ISONA™ is the world's first integrated display station, combining graphics generator, visualization software and 2Kx2K LCD display into a single-unit, slimline package. ISONA™ only needs an external power and network connection to become the heart of the OPS room.

### ISONA™ benefits:

#### Lower cost

- lower investment
- lower life cycle cost
- lower operational cost

#### Reduced risk

- reduced integration risk
- flexible upgrades

#### Simplified architecture

- network centric
- fast and easy upgrades
- system redundancy
- slimline console

### Fully integrated 2Kx2K display station

The integrated ISONA™ display station combines all proven benefits of Barco's advanced ISIS™ main display and high-performance VISONA™ server in a single physical unit.

ISONA™ features the same 28" 2Kx2K LCD main display as ISIS™, which ensures crisp and clear images at all times. Thanks to its enhanced LCD brightness and excellent viewing angle, ISONA™ successfully counteracts eye fatigue and presents operators with accurate information, even in difficult ambient conditions.

The integrated display server acts as a networked graphics device that translates X11 protocol into video for up to 4 displays while interfacing with local input devices. The unique architecture of ISONA™ eliminates the need for graphics generation on the application computer, thus increasing overall performance and generating more freedom for future reconfigurations and updates. In this way, ISONA™ provides an optimized, cost-effective visualization solution.

### Flexible architecture

Flexibility and ease of integration were key elements in the development of ISONA™. Its innovative single-unit concept offers system integrators all benefits of a flexible, networked solution. The integrated design simplifies new system architectures and allows easy integration into existing systems. Each ISONA™ display station can drive up to three auxiliary displays.

### Remote functionality

Thanks to its open network interface, ISONA™ can be used as a network addressable application display, combining graphics generation and display function in one functional unit. With ISONA™, the controller working position can be installed hundreds of meters away from the application platforms, which allows independent upgrades of both the graphics generation system and the display system. ISONA™ is ready for Barco's TELLAR™ display recording software module.

### Compact design

ISONA™ display stations offer a lightweight, low-depth, ergonomic solution that can easily be installed into both new and existing ATC workstations. The display's slim footprint allows the design of very compact controller working positions, whereas its smart single-unit concept simplifies cabling and driving management. Furthermore, ISONA™ features an efficient power supply, which greatly reduces heat output, and an intelligent backlight system, which provides a calibrated and stabilized light output.

### Low life cycle cost

The innovative ISONA™ introduces a new concept to conventional operational display systems. This new approach results in a lower total component count, which makes ISONA™ the most cost-efficient visualization solution available today. Moreover, ISONA™ fits into a proactive obsolescence management strategy, since it has been conceptually designed for future technology insertions.

### ISONA™ and VISONA™: well-matched siblings

Within Barco's family of high-performance components, ISONA™ and VISONA™ relate as well-matched siblings.

#### ISONA™ - Integrated display station

- Combines display and all visualization components in one unit
- Offers a means for display upgrades and future architectures

#### VISIONA™ - Display server

- Comes as a separate black box, including all visualization components
- Provides a powerful solution for systems with existing displays

