Technical specifications MFCD 2320 display

**VISUAL CHARACTERISTICS**
- **Viewing angle (Hor./Vert.):** 170° (at 10:1 contrast)
- **Active screen area:** 408 x 306 mm (16.1 x 12”)
- **Active screen diagonal:** 510 mm (20.1”)
- **Pixel pitch:** 0.255 mm
- **Native resolution:** 1600 x 1200 / 1200 x 1600
- **Refresh Rates:** 1600 x 1200 @ 60 Hz

**Supported Resolutions/Generations**
- **VGA:** Integrated VGA controller. Also compatible with external VGA cards
- **Display Memory:** 256 MB
- **Graphics Processor:** Custom 3D GPU
- **Display Configuration:** Single or dual-head, portrait or landscape

**CHARACTERISTICS**
- **Platforms:** Pentium 4 and up
- **Operating System:** Windows 2000, XP
- **Form Factor:** 109mm x 197mm x 18mm
- **Power Consumption:** < 25 watts
- **Bus Width:** 32 bit
- **Bus Clock Speed:** 66MHz
- **Bus Compatibility:** AGP 2.0 4X

**SYSTEM REQUIREMENTS**
- **Analog video input:** VGA D-SUB15 connector, AR coated front cover
- **Digital video input:** DVI (complying to DVI 1.0)
- **Connectivity:** Supported resolutions 1600 x 1200 (Landscape), 1200 x 1600 (Portrait)
- **OpenGL HW Support:** v1.3 compliant, v2.0 pixel/vertex shader and other extensions
- **Direct 3D HW Support:** DirectX v8.1, vertex shader v1.1, pixel shader v1.2
- **Electrical Standard:** Single link DVI complying to v1.0 specification
- **Pixel Depth:** 24 bit color
- **Look-Up Table:** 24 bits in / 24 bits out
- **Pixel Clock Rate:** 120 MHz

**PHYSICAL CHARACTERISTICS**
- **Connectors:** Two DVI connectors (one per head)
- **Display controls:** Display on/off, backlight adjustment, OSD
- **Dimensions (WxHxD):** L: 525 x 485 x 250 mm (15.2 x 23.0 x 9.8”)
- **Weight:** 13.9 kg (30.6 lbs)

**EMI FCC Class B, CE, EN 55022 B, EN 55024:1998**

**Environmental & Safety Approvals**
- **Medical:** FDA 510 k*
- **Immunity:** EN 50082-1
- **Emission:** EN 55022, Energy consumption: 70W max.
- **Input:** 90 to 264 VAC, 45 to 65Hz, 50/60Hz (c-UL), CB, IEC 60950, DEMKO EN 60950
- **Operational:** +5 to +50 C
- **Storage:** -40 to +70 C
- **Humidity:** Storage: 100%, Operational: 80%
- **Temperature:** Operating temperature range 0°C to +40°C (32°F to 104°F)

**Power save**
- Supports DPMS

**ADM features**
- **Input:** VGA boot
- **Supported Resolutions/Generations:**
  - 1024 x 1280 @ 60 Hz
  - 1280 x 1024 @ 60 Hz
  - 1200 x 1600 @ 60 Hz

**Barco medical imaging systems**

Many years of experience in all areas of display technology gives Barco a unique advantage as it continues to expand its color and grayscale display technology for a variety of imaging applications. Barco has established a solid reputation in the medical imaging market with high-performance display technology for X-ray, digital Radiography, PACS, digital mammography, ultrasound and magnetic resonance imaging applications.

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, supported by a worldwide network of sales managers, is dedicated to providing high performance display systems for PACS, digital mammography, ultrasound and magnetic resonance imaging applications.

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For more information, please visit our website at www.barcomedical.com.
Full color filmless perfection

For medical applications requiring high-resolution color images and 3D-rendering capabilities, Barco has engineered the Coronis® 2MP—the next-generation medical display system. Building on the state-of-the-art CORONIS® technology, the Coronis® 2MP is an ideal solution for accurate diagnosis in a variety of medical applications, including PACS, ultrasound, echocardiography, radiology, neuropathology, dermatology, nuclear medicine and PET. Building on state-of-the-art CORONIS® technology, the Coronis® 2MP offers nothing less than full color filmless perfection.

Perfect color matching

Thanks to its built-in Coris® IV technology, the Coronis® 2MP ensures perfect color matching in dual-head medical applications. In addition, the Coronis® 2MP can be combined with one or more grayscale displays to create a full hybrid display system.

High-resolution color LCD

The Coris® IV technology ensures outstanding color consistency and perfect DICOM compliance at all times, high-performance 2D image rendering, image processing and integration, and automatic display calibration. The compact, full commodity system performs in 2D applications and features color matching in multiple head configurations. A high contrast ratio and luminance for superior image quality under all viewing conditions ensure consistent and reliable color matching. The Coris® IV technology enhances image quality rendering and color consistency of the actual diagnostic viewing area at the front of the display. The Coris® IV technology enables diagnostic confidence, ensuring consistent and perfect DICOM compliance at all times. The Coris® IV technology is compatible with other display systems. The Coris® IV technology is considered to be the next generation "intelligent" technology.

Full color filmless perfection

The high-performance Barco® 2MP 2D color display controller has been designed to support 3D PACS, considered to be the next generation PACS applications. As a result, the Barco’s display controller brings enhanced functionality to the latest 3D CT, MR and PET applications.

Automated intervention-free QA

Combined with the Coris® IV technology, the Barco’s Coris® IV technology ensures maximum image quality Assurance for the user. In addition, the Coris® IV technology provides a perfect integrated display solution.

3D Support

The high-performance Barco® 2MP 2D color display controller has been designed to support 3D PACS, considered to be the next generation PACS applications. As a result, the Barco’s display controller brings enhanced functionality to the latest 3D CT, MR and PET applications.

PIN-compatible for centralized QA

The Coris® IV technology is fully compatible with Barco’s revolutionary PIN (Product Identification) concept, which ensures worry-free dynamic rendering and image distribution by means of "intelligent" technology.

Barco’s PIN-compatible PACS products form a distributed network of web-enabled intelligent devices. The independent IV technology constantly monitors image quality and the collected data are transparently processed and logged with Barco’s software. The networked infrastructure of intelligent, intelligent devices keeps administrators informed about the display system’s consistent quality. If the imaging system is changed in the diagnostic environment, information from any location is automatically synchronized with color interface and annotations.

PIN-compatible with Barco® software and annotations

Barco’s software provides fully automated image Quality assurance without the need for human intervention. The Coris® IV technology is considered to be the next generation "intelligent" technology.

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Orthopedic imaging

• Allows grayscale imaging with color interface and annotations
• Ultra-fast rendering of 2D images

Radiology and cardiology PACS

• Allows grayscale imaging with color interface and annotations
• Ultra-fast rendering of 2D images

Spheralogy, dermatology, cardiac imaging and PET

• Consistent and reliable color matching

For medical applications requiring high-resolution color images and 3D-rendering capabilities, Barco has engineered the Coronis® 2MP—the next-generation medical display system. Building on state-of-the-art CORONIS® technology, the Coronis® 2MP is an ideal solution for accurate diagnosis in a variety of medical applications, including PACS, ultrasound, echocardiography, radiology, neuropathology, dermatology, nuclear medicine and PET. Building on state-of-the-art CORONIS® technology, the Coronis® 2MP offers nothing less than full color filmless perfection.