

# Eonis 24" (MDRC-2324)

24" clinical display for hospital-wide viewing of clinical data and images



- 24" display for reviewing clinical images
- With front sensor for consistent images
- With remote QA management tools
- Different versions available (wrt color, brightness, touch etc.)

This 24" Eonis® display has been built with healthcare specialists in mind. It combines consistent, high image quality and an attractive, versatile design with networked quality assurance.

## High image quality

The high-quality Eonis display presents sharp, bright images with high contrast and a wide viewing angle. Eonis uses the latest in advancements in LED backlight technology, ensuring a higher brightness that can be maintained over a longer period of time.

The display's unique front consistency sensor ensures fast power-up and continuous luminance stability. The image consistency makes collaboration between specialists easier. They can discuss images with colleagues at multiple locations, knowing that everyone is seeing identical images.

## Centralized quality assurance

Eonis comes complete with Barco's cloud-based MediCal QAWeb software, an online service for automated calibration, Quality Assurance and asset management. Praised in hospitals around the world, MediCal QAWeb allows healthcare IT and PACS administrators to centrally and remotely manage image quality across the healthcare organization, at the click of a button.

## Smart design, fit for purpose

Barco's Eonis display is safe to use in a clinical environment. The multiple mounting options and connections add to the smart design.

The display is as high in brightness as it is low in power consumption. The lightweight form factor and packaging help reduce the environmental footprint of this product.

**PRODUCT SPECIFICATIONS****EONIS 24" (MDRC-2324)**

|                                       |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Screen technology                     | LCD                                                                                                                                                                                                                                                                                             |
| Active screen size (diagonal)         | 609.6 mm (24")                                                                                                                                                                                                                                                                                  |
| Active screen size (H x V)            | 518.4 mm x 324.0 mm (20.4 x 12.8")                                                                                                                                                                                                                                                              |
| Aspect ratio (H:V)                    | 16:10                                                                                                                                                                                                                                                                                           |
| Resolution                            | 2MP (1920 x 1200 pixels)                                                                                                                                                                                                                                                                        |
| Pixel pitch                           | 0.270 mm                                                                                                                                                                                                                                                                                        |
| Color imaging                         | Yes                                                                                                                                                                                                                                                                                             |
| Gray imaging                          | Yes                                                                                                                                                                                                                                                                                             |
| Bit depth                             | 30 bit                                                                                                                                                                                                                                                                                          |
| Viewing angle (H, V)                  | 178°                                                                                                                                                                                                                                                                                            |
| Ambient light presets                 | Yes, reading room selection                                                                                                                                                                                                                                                                     |
| Front sensor                          | Yes, Front Consistency Sensor                                                                                                                                                                                                                                                                   |
| Maximum luminance                     | Standard brightness versions (MDRC-2324 (option Sxxx)): 430 cd/m <sup>2</sup><br>High brightness versions (MDRC-2324 (option Hxxx)): 600 cd/m <sup>2</sup>                                                                                                                                      |
| DICOM calibrated luminance            | Standard brightness versions (MDRC-2324 (option Sxxx)): 250 cd/m <sup>2</sup><br>High brightness versions (MDRC-2324 (option Hxxx)): 350 cd/m <sup>2</sup>                                                                                                                                      |
| Contrast ratio (panel typical)        | 1000:1                                                                                                                                                                                                                                                                                          |
| Response time ((Tr + Tf)/2) (typical) | 7 ms                                                                                                                                                                                                                                                                                            |
| Housing color                         | Black versions (MDRC-2324 (option xxxB)): RAL 9004<br>White versions (MDRC-2324 (option xxxW)): RAL 9016                                                                                                                                                                                        |
| Video input signals                   | 1 x DP, 1 x DVI-I                                                                                                                                                                                                                                                                               |
| USB ports                             | 1x USB 2.0 upstream (endpoint)<br>2x USB 2.0 downstream                                                                                                                                                                                                                                         |
| Power rating                          | Black versions (MDRC-2324 (option xxxB)): 100-240 VAC, 50/60 Hz, 0.7-0.4A<br>White versions (MDRC-2324 (option xxxW)): 12 VDC, 2.3A                                                                                                                                                             |
| Power requirements                    | White versions (MDRC-2324 (option xxxW)): This device shall only be powered by the following medical approved power supply:<br><br>Adapertec, type PCL722A<br>Ratings marked on the medical power supply:<br>■ Input rating: 100–240 VAC, 1.6–0.7 A, 50/60 Hz<br>■ Output rating: 12 VDC, 2.3 A |
| Power consumption                     | Standard brightness versions (MDRC-2324 option Sxxx): 20 W<br>High brightness versions (MDRC-2324 option Hxxx): 25 W<br>< 0.5 W (hibernate)<br>< 0.5 W (standby)                                                                                                                                |
| Dimensions with stand (W x H x D)     | Portrait: 383.0 x 577.1~629.1 x 201.3 mm<br>Landscape: 568.0 x 420.6~530.6 x 201.3 mm                                                                                                                                                                                                           |
| Dimensions w/o stand (W x H x D)      | Portrait: 383.0 x 568.0 x 67.3 mm<br>Landscape: 568.0 x 383.0 x 67.3 mm                                                                                                                                                                                                                         |
| Dimensions packaged (W x H x D)       | 760 x 513 x 235 mm                                                                                                                                                                                                                                                                              |
| Net weight with stand                 | MDRC-2324 (option SNIB and HNIB): 6.8 kg<br>MDRC-2324 (option STIB and HTIB): 7.8 kg<br>MDRC-2324 (option HNEW): 6.6 kg<br>MDRC-2324 (option HTEW): 7.7 kg<br>MDRC-2324 (option HPEW): 7.6 kg                                                                                                   |

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Net weight w/o stand    | MDRC-2324 (option SNIB and HNIB): 4.6 kg<br>MDRC-2324 (option STIB and HTIB): 5.6 kg<br>MDRC-2324 (option HNEW): 4.4 kg<br>MDRC-2324 (option HTEW): 5.5 kg<br>MDRC-2324 (option HPEW): 5.4 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Net weight packaged     | MDRC-2324 (option SNIB and HNIB): 8.8 kg (including optional accessories)<br>MDRC-2324 (option STIB and HTIB): 9.8 kg (including optional accessories)<br>MDRC-2324 (option HNEW): 8.9 kg (including optional accessories)<br>MDRC-2324 (option HTEW): 10.0 kg (including optional accessories)<br>MDRC-2324 (option HPEW): 9.9 kg (including optional accessories)                                                                                                                                                                                                                                                                                                                                          |
| Tilt                    | -5° to +22°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pivot                   | 0° to 90°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Height adjustment range | 110 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting standard       | VESA (100 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Screen protection       | MDRC-2324 (option HPEW): Fully cleanable protective glass cover with anti-reflective coating<br>MDRC-2324 (option STIB, HTIB and HTEW): PCAP touchscreen<br>MDRC-2324 (option SNIB, HNIB and HNEW): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Recommended modalities  | All digital images, except digital mammography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Certifications          | FDA listing R015753 for General Radiology<br>CE (MDD 93/42/EEC; A1:2007/47/EC class I product)<br>CCC (China), KC (Korea), PSE (Japan), BIS (India), BSMI (Taiwan), EAC (Russia)<br><br>Safety specific:<br>IEC 60950-1:2005 + A1:2009<br>EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013<br>IEC 60601-1:2005 + A1:2012<br>EN 60601-1:2006 + A1:2013 + A12:2014<br>ANSI/AAMI ES 60601-1:2005 + R1:2012<br>CAN/CSA C22.2 No. 60601-1:14<br><br>EMI specific:<br>IEC 60601-1-2: 2014 (ed.4)<br>EN 60601-1-2:2015 (ed.4)<br>FCC part 15 Class B<br>ICES-003 Level B<br>VCCI (Japan)<br><br>Environmental:<br>China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive |
| Supplied accessories    | 1x DisplayPort video cable<br>1x USB cable<br>1x printed User Guide (English)<br>1x system disc, containing MediCal QAWeb software, graphics board drivers and translations of the User Guide<br>Mains cables (1x UK, 1x EUR, 1x USA, 1x PRC)<br>External power supply for MDRC-2324 (option xxEx) only                                                                                                                                                                                                                                                                                                                                                                                                      |
| Optional accessories    | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| QA software             | MediCal QAWeb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Warranty                | 3 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating temperature   | 0 °C to 40 °C (15 °C to 35 °C within specs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Storage temperature     | -20 °C to 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating humidity      | 8% to 80% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Storage humidity        | 5% to 90% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating pressure      | 70 kPa minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage pressure        | 50 to 106 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Last updated: 17 Apr 2019**Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.