



DISPLAYS

MEDICAL DIAGNOSTIC MONITORS

SYSTEM REQUIREMENTS				
	IQ-BASIC SERIES	IQ-PRO SERIES	IQ-PREMIUM SERIES	IQ-4MP 2in1
Operating temperature:	10 – 35 °C	10 – 35 °C	10 – 35 °C	10 – 35 °C
Operation humidity:	30 – 75 %	30 – 75 %	30 – 75 %	30 – 75 %
Power adapter:	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC
Power consumption:	100 W max.	100 W max.	100 W max.	150 W max.
Approvals:	UL 60601-1, CE (EN 60601-1-2), FCC Parts 18, VCCI, BSMI, TÜV GM and CCC			
	IQ-GRAFIX		IQ-GRAFIX PRO	
BUS compatibility:	PCI Express 16 x		PCI Express 16 x	
PC power supply*:	400 W (recommended)		600 W (recommended)	
Graphics card length:	23 cm		28 cm	

*6-pin PCI-Express power connector for IQ-GRAFIX needed, 2x6-pin PCI-Express power connector for IQ-GRAFIX PRO needed

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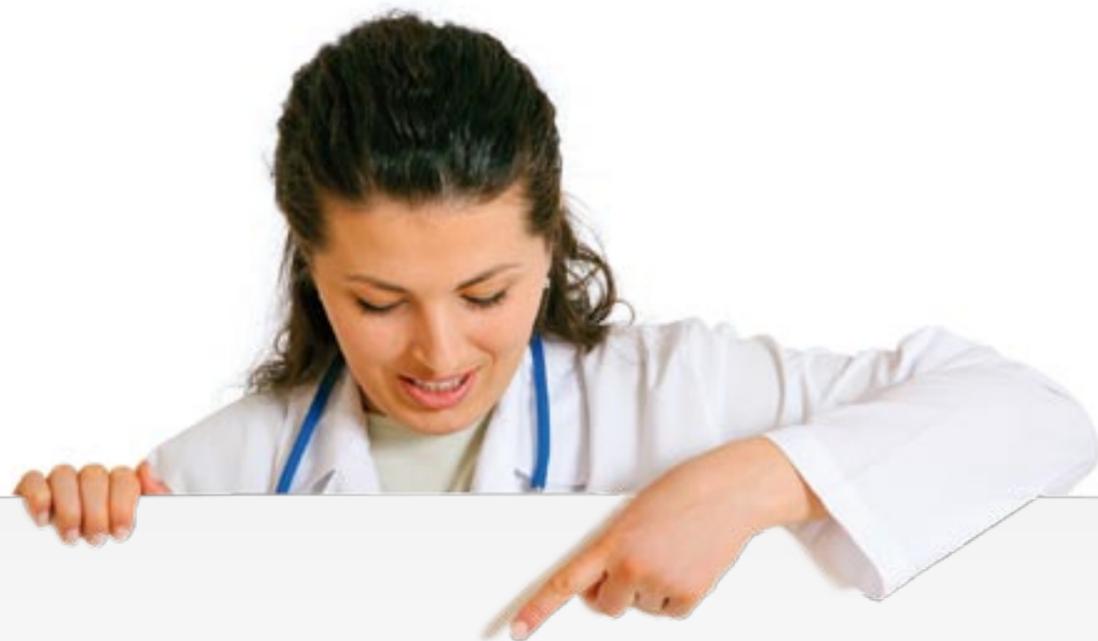


BRIGHT PROSPECTS

OUR SOLUTIONS FOR YOUR IMAGING NEEDS

- iQ-VIEW®** The radiology reading station
- iQ-VIEW® 3D** 3D post-processing workstation
- iQ-CAPTURE** Add-on hardware module for capturing images from analog video sources
- iQ-WEBX** PACS server for storage, teleradiology and image distribution
- iQ-HIS/RIS CLIENT** Simplifying the workflow
- iQ-PRINT** DICOM paper print server
- iQ-ROBOT** Automatic burning and labeling of patient CDs and DVDs
- iQ-ROUTER** Image compression for teleradiology and workflow management
- iQ-MAIL** Simple teleradiology using DICOM e-mail
- iQ-WORKLIST** DICOM worklist server optimizing your workflow
- iQ-NUC** Simple nuclear PACS integration
- iQ-RIS** The RIS that simplifies your work
- iQ-DISPLAYS** Medical diagnostic monitors
- iQ-CR ACE** Efficiency in CR
- DICOMReader** Read any DICOM CD into your PACS
- OrthoView™** Add-on module for orthopedic templating and trauma planning





COMPLETE MEDICAL DISPLAY SOLUTIONS FOR THE MOST DEMANDING USERS

Ready-to-use, all-in-one medical diagnostic solutions from one source.

iQ-DISPLAYS are a series of high-performance medical displays, which include high-speed medical graphics cards as well as a reliable image management software. All these components have been developed simultaneously in order to ensure the best quality and reliability for the most demanding daily use.

iQ-DISPLAYS are the only PACS-integrated displays that are fully software operated and controlled. Therefore, one useful feature is that the software switches off the backlight lamps automatically if monitors are not in use.

iQ-DISPLAYS are calibrated twice before delivery, which makes the installation process easy and fast. Just unpack the devices, install the graphics card, run iQ-VIEW® and start to work. No medical device specialist is required for the installation.

Most medical graphics cards are slow while displaying big images. The iQ-GRAFIX card series combines high resolutions up to 2 x 5 megapixel with amazing speed. This way, even the finest structures are displayed in high resolution immediately.



Easy control of display features using a graphical user interface and software directly integrated in iQ-VIEW®.

iQ-GRAFIX is the only medical graphics card on the market which supports high-speed 3D rendering of volumetric MRI series or multislice CT scans.

iQ-DISPLAYS can be easily configured using different settings for 1, 2, 3 and 4 displays. Each display can use different resolutions and gray levels. Thus, it is possible to run e.g. one RIS/PACS control display, one high resolution color 3D display and 2 grayscale displays on one machine. Due to the adaptable connection possibilities, they are suitable for almost all modalities. Given that the components (hardware and software) are coming from the same source, full compatibility is guaranteed.

Built-in calibration devices provide stable image visualization throughout the whole product life cycle. Thanks to the factory-preset DICOM calibration, the gray level output is homogenous over the whole range.

All iQ-DISPLAYS are produced using quality management according to ISO 9001 and 13485 and follow safety standards like UL 60601-1, FCC Part 18, VCCI, BSMI, CE(EN 60601-1-2) TÜV GM and CCC.

All displays are delivered as a full package, including:

- iQ-DISPLAYS, a high-resolution factory calibrated diagnostic display
- iQ-GRAFIX, a new generation 12-bit graphics card (3D-Rendering capable)
- iQ-DISPLAYS PACS integrated software for control and quality management

All components come with a 3 years warranty* and a worldwide service network of factory-trained engineers ensures professional support all around the globe.

* 3 years warranty if less than 10.000 luminancy hours.



iQ-DISPLAYS BASIC SERIES

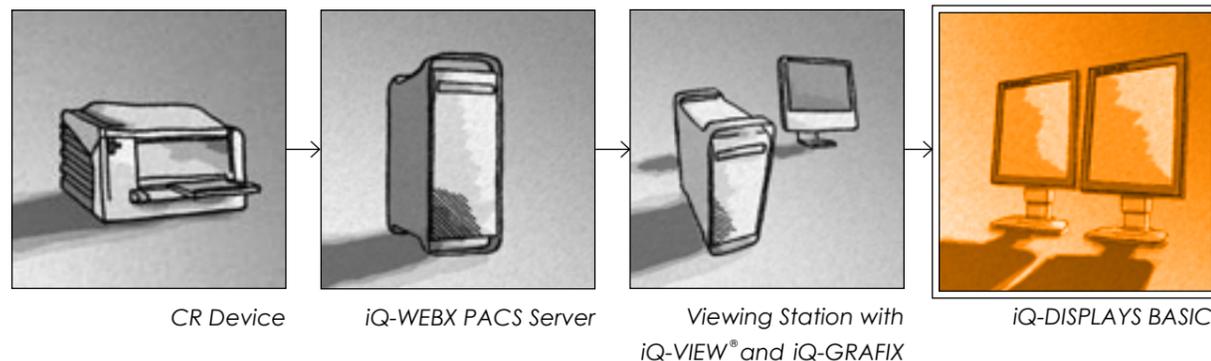
Flexibility and convenience for daily use.

iQ-DISPLAYS BASIC are entry-level displays, which offer resolutions of 2 megapixel for any kind of diagnostic imaging like CR, CT or MRI. This display line is especially optimized for orthopedic surgeons and imaging centers, where both diagnostic image quality as well as cost play a decisive role.

iQ-DISPLAYS BASIC offer a lot of flexibility. They include multiple video interfaces, which allows easy interfacing with several advanced medical applications, such as ultrasound, endoscope and C-arm devices.*

Additionally, it is possible to incorporate a secondary window (picture in picture), where another image from an external source may be displayed. It is the ideal feature to view patient data and medical images at the same time.

iQ-DISPLAYS BASIC are the perfect combination of high performance and affordable prices. Their cost-benefit ratio is unbeatable on the market.

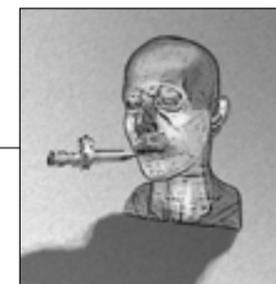


* Compatible devices on request

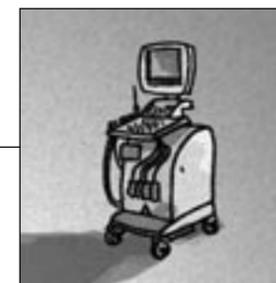
iQ-DISPLAYS BASIC FEATURES

iQ-2MP

- 2 megapixel | entry level diagnostic grayscale TFT display (color panel)
- Display size **20.1 inch**
- Resolution (HxV) **1600 x 1200 pixel**
- Maximum contrast **800:1**
- Maximum luminance (cd/m²) **300**
- True gray depth in bit **8/10**
- Orientation (portrait vs. landscape) **P/L**
- Height adjustable **✓**
- Genipass and Genisport/Calibration Kit **—**
- Backlight stabilization (by software) **—**
- Display category (DIN 6868-57) **A**



Endoscopy



Ultrasound Device

You can easily adapt your image orientation using the pivot feature or adjust the height up and down.



iQ-DISPLAYS PROFESSIONAL SERIES



Superior performance for the professional user.

The Professional line provides higher luminance and excellent contrast in order to perform high-quality readings even under insufficient surrounding lighting conditions. An image calibration kit is shipped with the display. iQ-DISPLAYS PRO are the first medical displays worldwide including a full 12-bit image transfer in the processing line (GrayBoost® Technology).

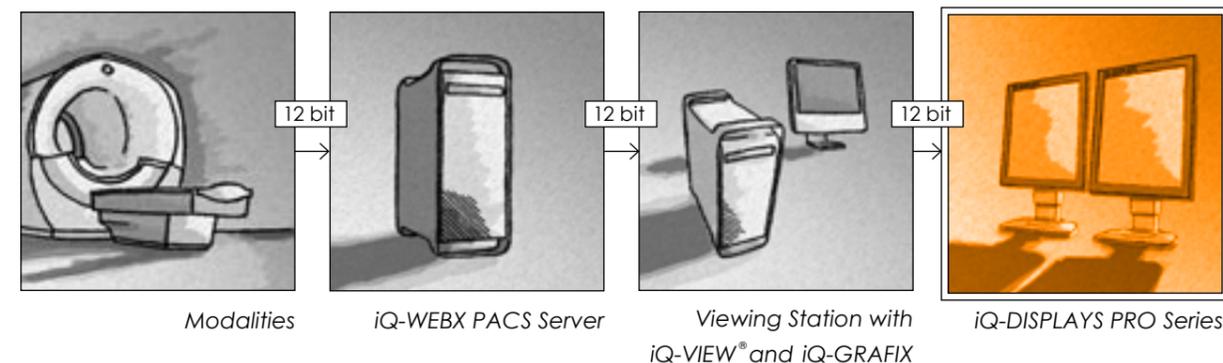
Most medical images are stored with 12-bit of gray shades. By means of the innovative GrayBoost® 12-bit gray-scale technology, iQ-DISPLAYS PRO, as opposed to standard 8-bit displays, are able to render 12-bit images without any quality loss. This way, posterization visible by human eyes is completely eliminated as shown in figure 1.

The intelligent self-diagnosis function ensures precise luminance and DICOM calibration for your periodical quality control process.

Features:

- Luminance testing
- DICOM calibration
- User-defined LUT programming
- Conformance testing
- Five-point testing of uniformity
- Calibration history management

Because of their top performance and maximum image quality, iQ-DISPLAYS PRO are the ideal displays for the most demanding radiologists.



iQ-DISPLAYS PRO FEATURES

iQ-2MP PRO

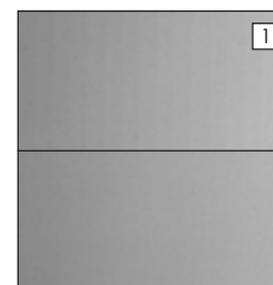
- 2 megapixel | professional level diagnostic monochrome TFT display
- Display size **21.3 inch**
- Resolution (HxV) **1600 x 1200 pixel**
- Maximum contrast **700:1**
- Maximum luminance (cd/m²) **1000**
- True gray depth in bit **8/10/12**
- Orientation (portrait vs. landscape) **P/L**
- Height adjustable ✓
- Genipass and Genispot/Calibration Kit ✓
- Backlight stabilization (by hardware) ✓
- Display category (DIN 6868-57) **A+**

iQ-3MP PRO

- 3 megapixel | professional level diagnostic monochrome TFT display
- Display size **21.3 inch**
- Resolution (HxV) **2048 x 1536 pixel**
- Maximum contrast **700:1**
- Maximum luminance (cd/m²) **800**
- True gray depth in bit **8/10/12**
- Orientation (portrait vs. landscape) **P/L**
- Height adjustable ✓
- Genipass and Genispot/Calibration Kit ✓
- Backlight stabilization (by hardware) ✓
- Display category (DIN 6868-57) **A+**

iQ-5MP PRO

- 5 megapixel | professional level diagnostic monochrome TFT display
- Display size **20.1 inch**
- Resolution (HxV) **2560 x 2048 pixel**
- Maximum contrast **600:1**
- Maximum luminance (cd/m²) **850**
- True gray depth in bit **8/10/12**
- Orientation (portrait vs. landscape) **P/L**
- Height adjustable ✓
- Genipass and Genispot/Calibration Kit ✓
- Backlight stabilization (by hardware) ✓
- Display category (DIN 6868-57) **A+**



1 Posterization of a 12-bit image on an 8-bit display system. Elimination of the posterization effect of the 12-bit image in the GrayBoost® display system.

2 The PRO series includes an image calibration kit.

iQ-DISPLAYS PREMIUM SERIES

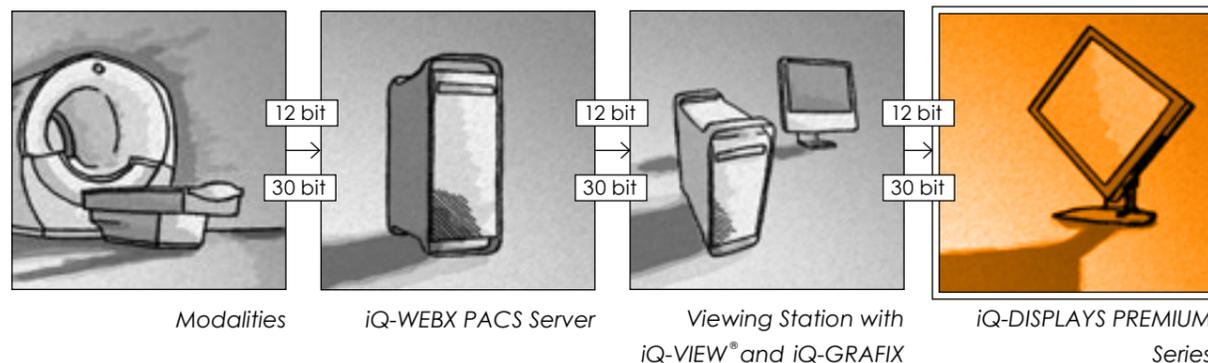
Vivid colors and intensive gray tones for the closest simulation to reality.

iQ-DISPLAYS PREMIUM offer the highest brightness and resolution for the processing of both medical grayscale and color images in one display.

Thanks to this great combination, iQ-DISPLAYS PREMIUM make a completely new experience out of normal 3D image processing. Through complete 30-bit deep color image data flow, iQ-DISPLAYS show true 30-bit images without any color degradation. The GrayEasy® technology can further create more shades of gray by means of a built-in color-to-gray-

scale converter. This way, it is possible to display grayscale images much more precisely.

iQ-DISPLAYS PREMIUM are optimized to meet the tough requirements of the most modern and state-of-the-art universities and research centers all over the globe. These displays were specifically designed for such educational and research institutions thinking of their special needs and fascination for future technology and next-generation equipments.



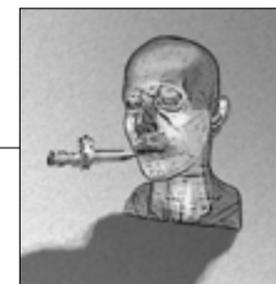
iQ-DISPLAYS PREMIUM FEATURES

iQ-2MP PREMIUM

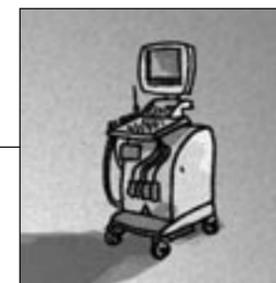
- 2 megapixel | premium level diagnostic grayscale TFT display (color panel)
- Display size **21.3 inch**
- Resolution (HxV) **1600 x 1200 pixel**
- Maximum contrast **900:1**
- Maximum luminance (cd/m²) **950**
- True gray depth in bit **8/10/12**
- Orientation (portrait vs. landscape) **P/L**
- Height adjustable **✓**
- Genipass and Genispot/Calibration Kit **—**
- Backlight stabilization (by hardware) **✓**
- Display category (DIN 6868-57) **A+**

iQ-3MP PREMIUM

- 3 megapixel | premium level diagnostic grayscale TFT display (color panel)
- Display size **21.3 inch**
- Resolution (HxV) **2048 x 1536 pixel**
- Maximum contrast **750:1**
- Maximum luminance (cd/m²) **800**
- True gray depth in bit **8/10/12**
- Orientation (portrait vs. landscape) **P/L**
- Height adjustable **✓**
- Genipass and Genispot/Calibration Kit **—**
- Backlight stabilization (by hardware) **✓**
- Display category (DIN 6868-57) **A+**



Endoscopy



Ultrasound Device



iQ-DISPLAYS 2in1

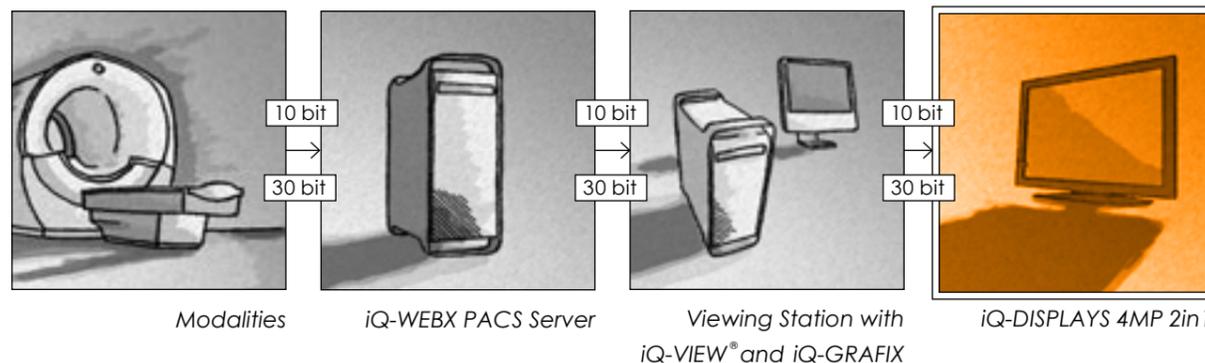
Double Size - Double Performance

iQ-DISPLAYS 2in1 are the most revolutionary solution for the simultaneous assessment of two X-ray images. These displays allow an even more reliable and accurate diagnosis since both images are displayed with exactly the same color temperature and resolution.

One very important feature of the iQ-DISPLAYS 2in1 is that color and grayscale are absolutely homogeneous across the whole display. Along with a resolution of 4 megapixel, this feature guarantees highest performance in the processing of all radiological and nuclear medical images.

Due to these innovative features even the most demanding users will be amazed at the full-size magnified view offered by the 2in1 displays. In full-screen mode, medical images can be magnified without loss of quality even to scales which classic displays are not able to show.

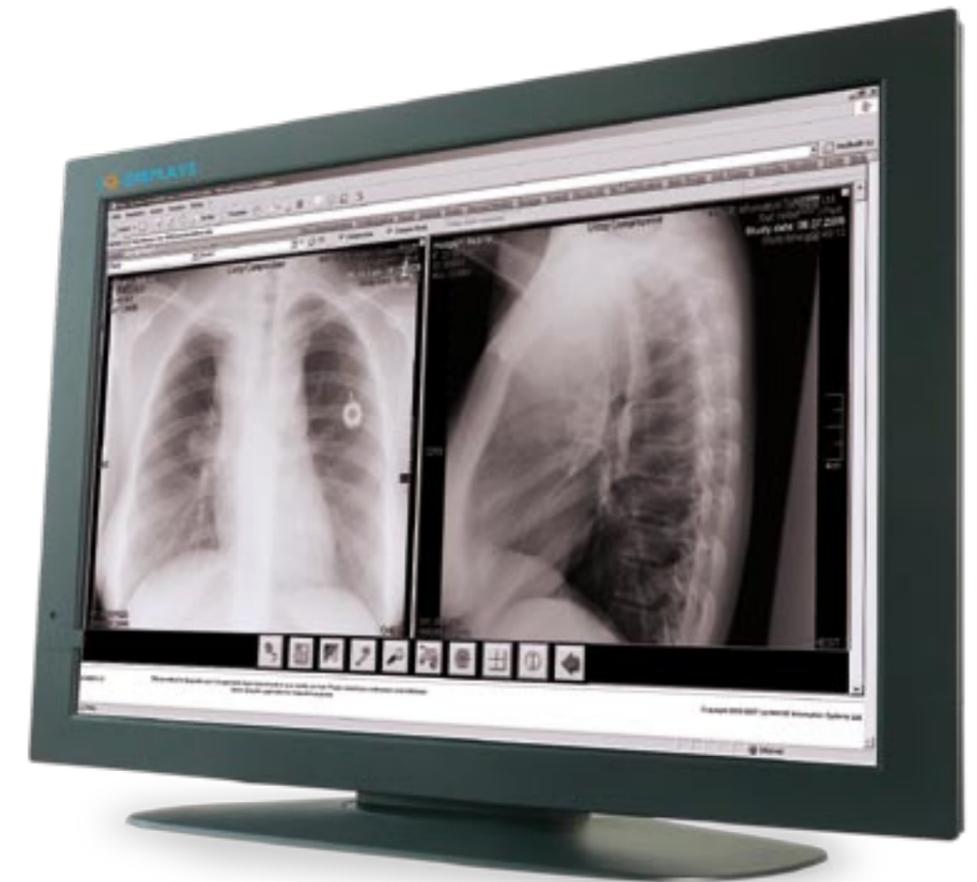
Additionally, there are no annoying frameworks in-between as only big-sized displays can offer. This characteristic is a great advantage for users who wish to view big images, like full-leg or veterinary images, at a glance.



iQ-DISPLAYS 2in1 FEATURES

iQ-4MP 2in1

- 4 megapixel | 2in1 diagnostic grayscale TFT display (color panel) with front sensor
- Display size **30 inch**
- Resolution (HxV) **2560 x 1600 pixel**
- Maximum contrast **1000:1**
- Maximum luminance (cd/m²) **370**
- True gray depth in bit **8/10**
- Orientation (portrait vs. landscape) **L**
- Height adjustable **✓**
- Genipass and Genispot/Calibration Kit **—**
- Backlight stabilization (by hardware) **✓**
- Display category (DIN 6868-57) **A**



The 4 megapixel 2in1 display is a breakthrough in medical imaging. View two X-RAYS at the same time exactly side by side or be amazed at the full size magnified view.