



# DIGITAL SOLUTIONS

ORTHOPEDIC PACS AND WORKFLOW TOOLS

*RELIABLE,  
EFFICIENT,  
AFFORDABLE*



# GET READY FOR A BETTER PERFORMANCE

You have the dream:  
Combining diagnostic images and ortho-  
pedic planning at an affordable price.  
We offer: Integrated orthopedic templating  
in a workflow designed for orthopedists.

## Why should we go digital?

When you work digitally, your radiological images are rapidly available. iQ-SYSTEM PACS (Picture Archiving and Communication Systems) have user-friendly features and interfaces, designed for quick and easy reading and pre-operative planning. Integrated orthopedic measuring tools such as distance and angle, the management of orthopedic CT scans or MRIs and surgical scaling and templating facilitate and speed up your workflow while improving accuracy.

As all patient data, images and reports are stored in just one system, you can access previous studies at any time and from virtually every place on the planet. You can also provide your patients with their own images on CDs/DVDs or give them temporary access to your system so they can see their own studies.

## Do I need to go fully digital at once?

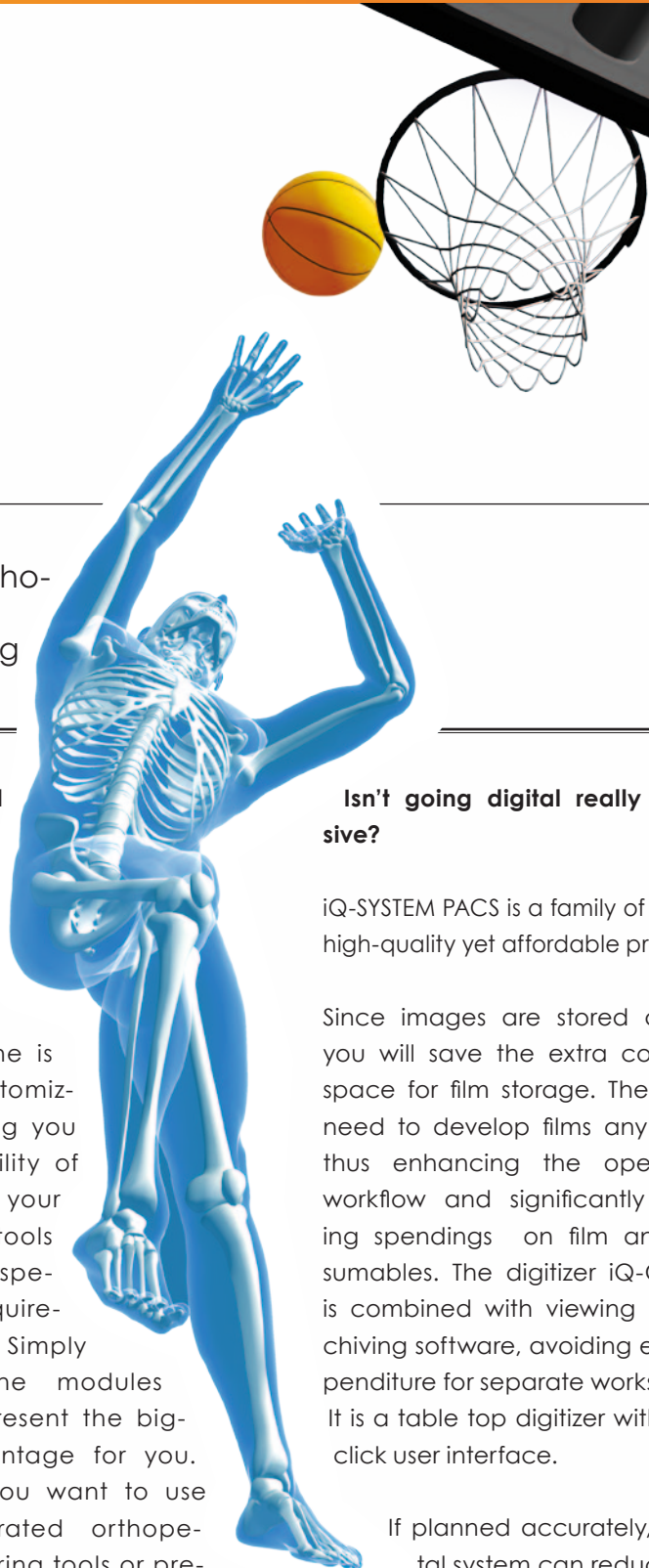
It's up to you. Our product line is easily customizable, giving you the possibility of adapting your imaging tools to your specific requirements. Simply choose the modules which represent the biggest advantage for you. Whether you want to use the integrated orthopedic measuring tools or prefer to print out the images and measure them on film – with iQ-VIEW you always have the right tool in your hand.

## Isn't going digital really expensive?

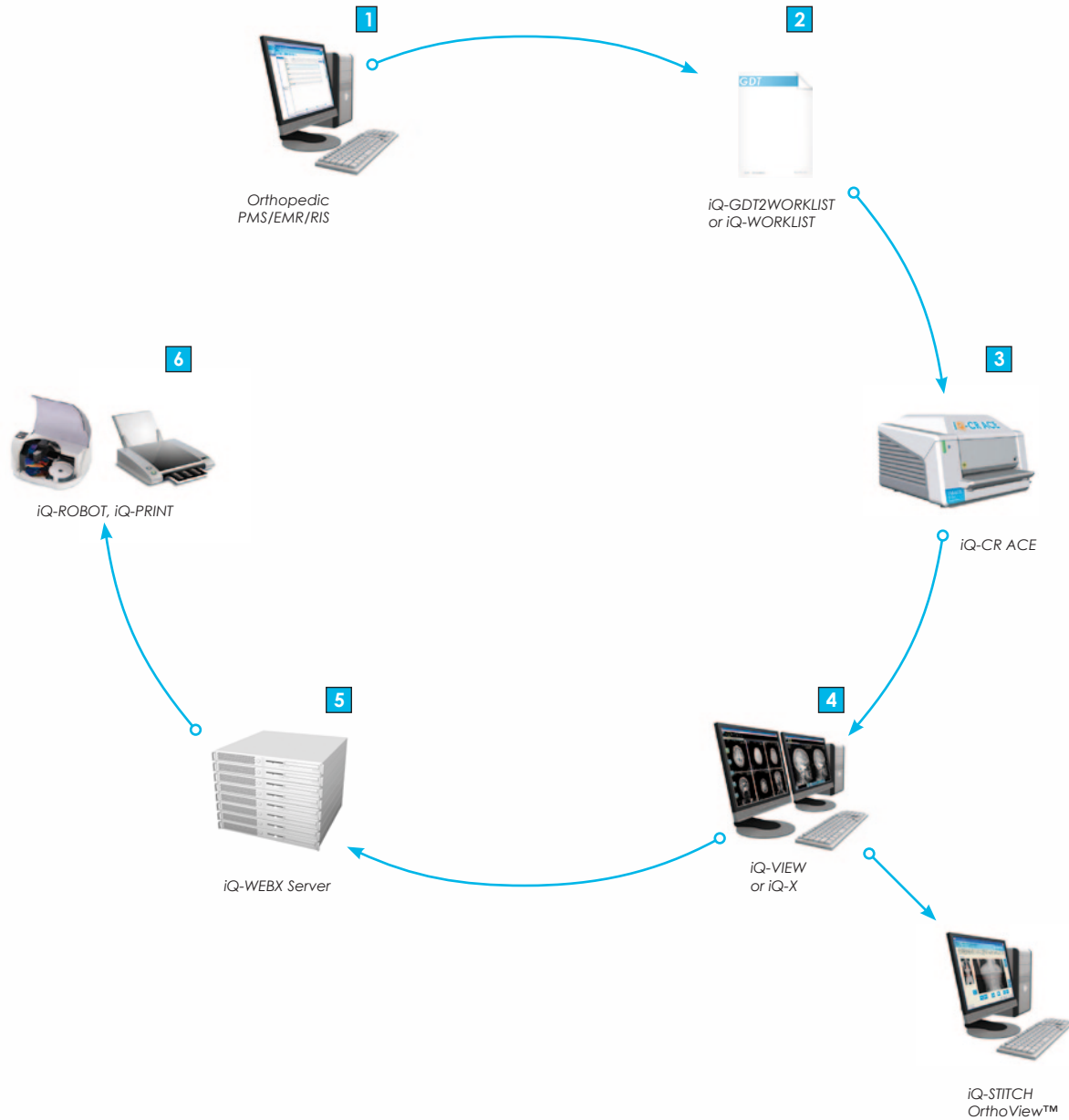
iQ-SYSTEM PACS is a family of reliable, high-quality yet affordable products.

Since images are stored digitally, you will save the extra costs and space for film storage. There is no need to develop films any longer, thus enhancing the operational workflow and significantly reducing spendings on film and consumables. The digitizer iQ-CR ACE is combined with viewing and archiving software, avoiding extra expenditure for separate workstations. It is a table top digitizer with a one click user interface.

If planned accurately, a digital system can reduce costs considerably, streamline and speed up the workflow and save time and resources.



# A FULL DIGITAL ORTHOPEDIC WORKFLOW



- 1 Patient arrives at front desk**  
Your practice management system (PMS) or iQ-RIS schedules and manages appointments.
- 2 iQ-GDT2WORKLIST or iQ-WORKLIST**  
receives scheduling data from the PMS and provides a consistent DICOM modality worklist to your imaging devices.

- 3 Study is performed**  
iQ-CR ACE digitizes image plates, which have been exposed with an existing X-Ray device, and forwards them to the reading station (iQ-VIEW).
- 4 Orthopedist reviews images**  
Images are reviewed in iQ-VIEW or iQ-X, merged in iQ-STITCH and patient care pathway is deter-

mined using the surgical templating module OrthoView™.

- 5 iQ-WEBX** consistently stores images and patient data.
- 6 Patient receives copy of images**  
iQ-ROBOT burns CD/DVD with images, iQ-PRINT can print them on regular paper in high quality.

# MAIN ADVANTAGES OF GOING DIGITAL

**SCHEDULE** With iQ-GDT2WORKLIST or iQ-WORKLIST, users can create consistent DICOM scheduling worklists for any imaging device based on their practice management system.

**ACQUIRE** Digital imaging does not need chemistry, dark-rooms, waste disposals and ventilation systems. Hence, you can finally get rid of toxic developing procedures and save the associated costs.

iQ CR-ACE promptly digitizes image plates, which have been exposed by your existing X-Ray device.

Additionally, with iQ-VIEW images can easily be optimized.

**READ** iQ-VIEW includes a handy and customizable toolbar in the viewer to allow the quick and easy selection of orthopedic tools needed for processing images, like distance and angle measuring, zooming, filtering and more. Simply set up the most relevant ones in your own default toolbar.

Annotations on images or other manipulations can be saved as separate presentation states in the PRO version. This way, any later reviews will be consistent.

Any previous studies can be loaded immediately.

The additional module OrthoView™ allows convenient planning of further treatment, e.g. by using preconfigured hip templates.

IMAGE-DISPLAYS are high resolution diagnostic monitors displaying the whole range of gray shades up to a grey depth of 12bit as acquired on most modalities.

**STORE** iQ-WEBX stores up to 500 million images in one database on a local or network attached storage device.

**ACCESS** External image data can easily be read-into iQ-SYSTEM PACS using the DICOMReader.



# MAIN ADVANTAGES OF GOING DIGITAL

**DISTRIBUTE** Imaging studies are directly available via secured web (iQ-WEBX).

iQ-ROBOT is a simple and affordable solution to automatically create CDs/DVDs containing medical studies and reports from the local network.

Another option is to print on regular paper in high quality directly from a modality using iQ-PRINT.

**SHARE** By implementing teleradiology systems (e.g. iQ-WEBX), reading physicians can access studies from anywhere in the world - even on their notebook. This way, orthopedic imaging centers gain independence and flexibility. Furthermore, they can save time and resources while keeping standards high.

**DATA SAFETY** In order to prevent data loss, iQ-SYSTEM PACS offers a series of reliable and secure business continuity planning models.

Referring physician or patients may only access data relating to them. The system automatically manages data separation e.g. in case of changes of referring, reading or treating physician.

**DIGITAL BILLING** Billing modes may be flexibly adapted to any specific requirement in iQ-RIS. Invoices may be written in iQ-RIS or handed back as procedure codes to a practice management or billing system.



# SUMMARY

## TO THE POINT

RADIOLOGY YESTERDAY	RADIOLOGY TODAY
Conventional radiographies	Digital files
Light boxes in dark rooms	High-quality displays (12bit) under almost daylight conditions, e.g. IMAGE DISPLAYS
Average image-quality	High-quality digital images
High space requirements for storing images	Minor space requirements for workstations and servers
Fixed image on film	Flexible image postprocessing, e.g. iQ-VIEW, iQ-VIEW 3D
Manual "post-processing" with ruler and protractor	Automatic post-processing with specialized add-on modules, e.g. iQ-NUC, Orthoview, iQ-VIEW 3D, iQ-STITCH
Use of toxic chemicals	Environmentally friendly
Slow image transfer to colleagues	Fast electronic image transfer
Missing paper files or documents	Electronic medical record, scheduling and billing process always online, e.g. iQ-RIS
Typing mistakes on different modalities	Consistent imaging data, e.g. iQ-WORKLIST
Patients received no copies	Patients can receive a CD or USB stick with their images, e.g. iQ-ROBOT
Limited access to images	Any image, anytime, anywhere, e.g. iQ-WEBX



# OUR COMPANY AT A GLANCE

IMAGE Information Systems is a British-German company group, which offers complete, easy-to-use and affordable solutions for the most demanding customers in the field of medical imaging.

Thousands of satisfied clients all over the world are benefiting from our state-of-the-art products for PACS, RIS, nuclear medicine, medical displays, X-ray solutions, 3D processing and teleradiology.

We have pioneered several innovations to the market: We are the first worldwide PACS vendor to introduce true 12 bit grayscale display technology for a visibly better quality of CR, DR and CT studies. We are the world's first provider of a fully automatic nuclear heart reconstruction. Our DICOMReader has the highest available read-in rate of patient CD-ROMs ensuring virtually full compatibility with almost all available imaging modalities and vendors.

IMAGE Information Systems provides the 2nd largest digital imaging user forum on earth with more than 25,000 registered users.

To learn more about us and our products, please visit our web site.

[www.image-systems.biz](http://www.image-systems.biz)

## OUR SOLUTIONS FOR YOUR IMAGING NEEDS

**Radiologists**

**Hospitals**

**Veterinarians**

**Orthopedists**

**Mammography**

**RIS/PACS Integration**

**PACS Continuity Planning**

**Teleradiology**

RIS and PACS for radiologists

RIS and PACS for hospitals

Tailored veterinary RIS and PACS

Orthopedic PACS and workflow tools

RIS and PACS for breast care units

How to integrate iQ-SYSTEM PACS with any existing Medical Information System

How to ensure permanent access to your PACS

Available technologies in remote diagnostics

