



# ROUTER

IMAGE COMPRESSION FOR TELERADIOLOGY AND WORKFLOW MANAGEMENT

## SYSTEM REQUIREMENTS

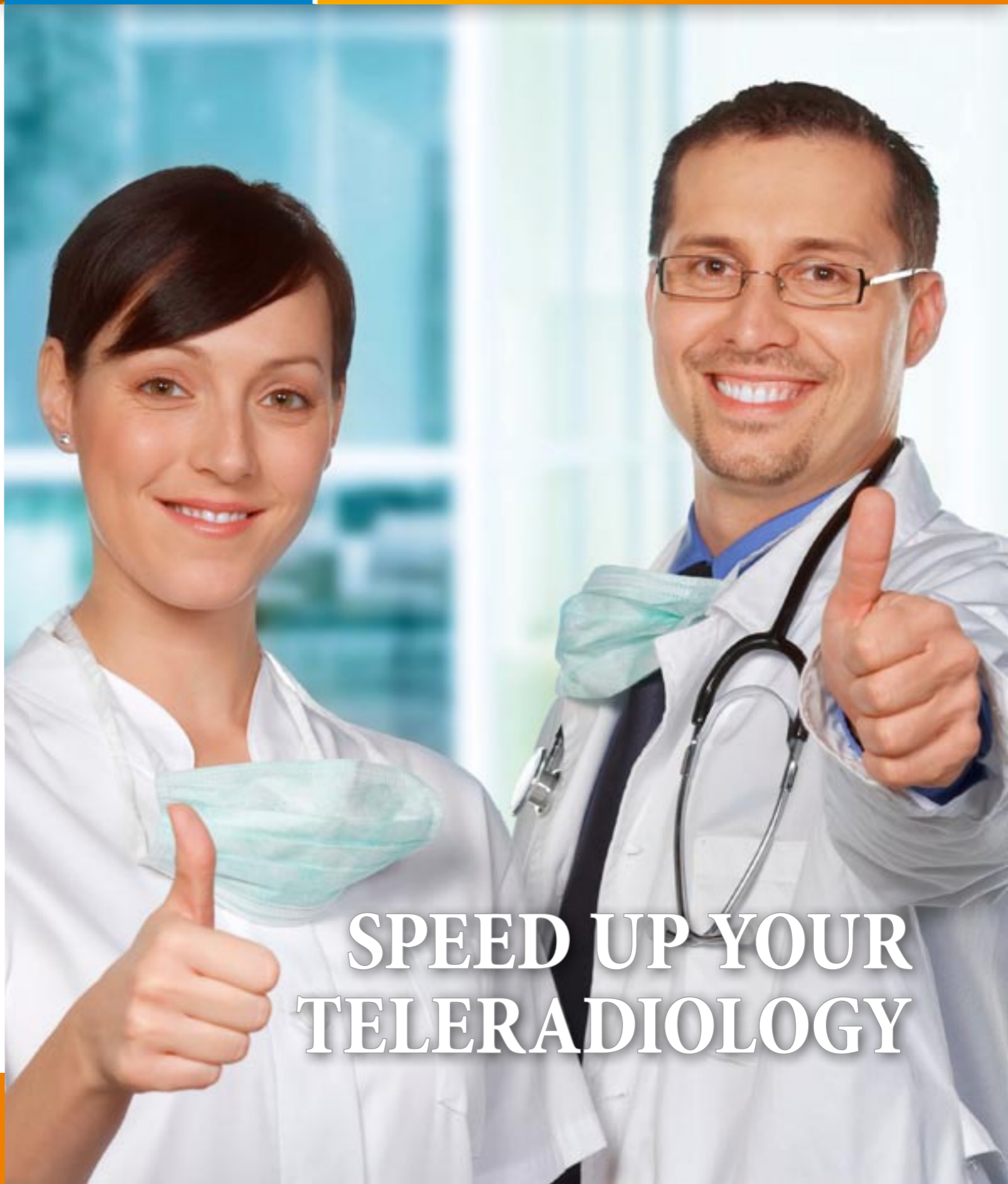
	REQUIRED	RECOMMENDED
<b>Operating System:</b>	Windows 2000	Windows XP Professional
<b>CPU:</b>	Pentium 500 Mhz	Pentium 2 GHz
<b>Memory:</b>	256 MB RAM	512 MB RAM
<b>HDD:</b>	10 GB of empty hard disk space	20 GB of empty hard disk space
<b>Network:</b>	10 MBit network adapter	100 MBit network adapter
<b>Hardware:</b>		Dell Hardware



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## OUR SOLUTIONS FOR YOUR IMAGING NEEDS

- iQ-VIEW®** An easy-to-use DICOM image viewer
- iQ-VIEW® 3D** 3D post-processing workstation
- iQ-CAPTURE** Add-on module for capturing images from analog video sources
- iQ-WEBX** DICOM server for storage, teleradiology and image distribution
- iQ-RIS** The RIS that simplifies your work
- iQ-WORKLIST** DICOM worklist server optimizing your workflow
- iQ-ROUTER** Image compression for teleradiology and workflow management
- iQ-PRINT** DICOM paper print server
- iQ-ROBOT** Automatic burning and labeling of patient CDs and DVDs
- iQ-NUC** Simple nuclear PACS integration
- DICOMReader** Read any DICOM CD into your PACS!
- OrthoView™** Add-on module for orthopedic templating and trauma planning



# SPEED UP YOUR TELERADIOLOGY



# THE iQ-ROUTER SOFTWARE HAS BEEN DEVELOPED FOR TELERADIOLOGY USE

... to make the transmission of DICOM compatible image data faster by sending it in a compressed format.

Through data compression, the transfer is significantly accelerated. Thus extensive data transmissions can be achieved using low cost narrow bandwidth connections.

iQ-ROUTER offers bi-directional communication, which means that modalities can not only receive data over the teleradiology line, but are also able to start individual DICOM queries. The access to the different DICOM modalities is regulated by a permission control.

The software supports virtually all DICOM image formats and transfer syntaxes which makes the iQ-ROUTER exceptionally versatile.

If desired, the DICOM header of images can be completed, adjusted or deleted using the PRO version of the software. The PRO version also offers the possibility to add rules of automatic distribution of data. This allows, for instance, to send one type of examinations to one viewing station while other types of examinations or images from a specific modality are automatically sent to the station of another physician and all this can be performed with simultaneous consideration of time schedules. This is made possible by the flexible workflow manager.

As a matter of course, individual patient information within the forwarded data can be pseudonymized and/or encrypted according to the existing data protection laws.

## iQ-ROUTER FEATURES

### GENERAL

- Runs without user login (NT service controlled by the OS)
- Flexible logging
- Monitoring and configuration tool

### DICOM SUPPORT

- DICOM Store
- Query/Retrieve
- Verification
- Fully parallel processing (multi-threaded)
- Support of all DICOM store classes including non-image classes like Structured Reports
- Unlimited number of parallel connections
- Unlimited number of modalities within the network

### ROUTING/ENHANCED DICOM

- Transparent routing of all requests
- Bidirectional DICOM interface
- Merge different DICOM data streams
- Patient root and study root model support for DICOM queries

### SECURITY/PRIVACY

- Flexible service access control for all modalities within the network
- Restriction for query requests
- Automatic pseudonymization of patient data

### TELERADIOLOGY

- Proprietary Wavelet compression
- JPEG/JPEG 2000 lossy and lossless compression
- "Runtime Length Encoding" (RLE) lossless compression
- Adjustable compression ratio for all lossy compressions
- Support for long latency time and low bandwidth connection
- Supports VPN, dynamic IPs and firewalling

### WORKFLOW

- Automatic rule-based optimization, correction and changing of DICOM data
- Automatic changes of AE titles (AE mapping)
- Automatic rule-based forwarding of DICOM data
- Asynchronous forward management (multi-threaded)

### FORWARD MANAGEMENT

- Support of multiple conditions for each rule
- Support of wildcards for all text fields in rules and conditions
- Support of sender and receiver AE title, time, day of the week and DICOM header information for rules and conditions

### OPERATING SYSTEMS

- Windows 2000, XP, 2003, Vista

### CERTIFICATION

- CE 0482