



CAPTURE

ADD-ON MODULE FOR CAPTURING IMAGES
FROM ANALOG VIDEO SOURCES

CAPTURE ANYTHING TO DICOM



VERSION 1.1



CONNECT ANY MEDICAL DEVICE TO YOUR PACS

iQ-CAPTURE is an optional hardware package for iQ-VIEW PRO

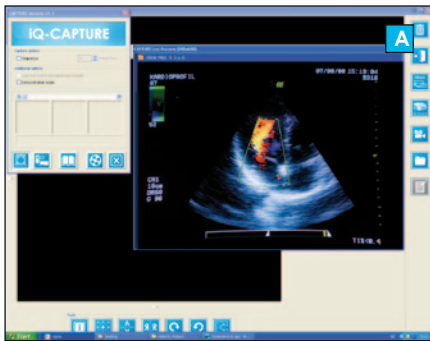
While going digital and switching to PACS, many hospitals or imaging centers are faced with medical devices without DICOM connectivity or costly DICOM interfaces respectively. In order to solve this issue, we have developed two different solutions to capture any video signal to DICOM – iQ-CAPTURE and iQ-CAPTURE PRO.

The implementation is easy and fast. An authorized dealer connects a loop through the video monitor to the capture hardware, which is plugged into a standard Microsoft

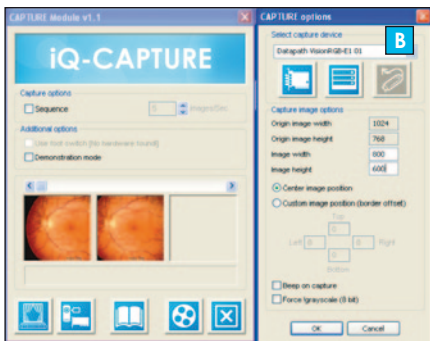
Windows compatible PC. Medical operators can easily capture any images using the iQ-VIEW PRO software with the included foot switch or the computer mouse. Demographic data of the captured images can either be entered manually, copied from existing data or requested from a DICOM MODALITY WORKLIST source.

***THE SOLUTION
CAN BE SO SIMPLE***

iQ-CAPTURE SCREENSHOTS



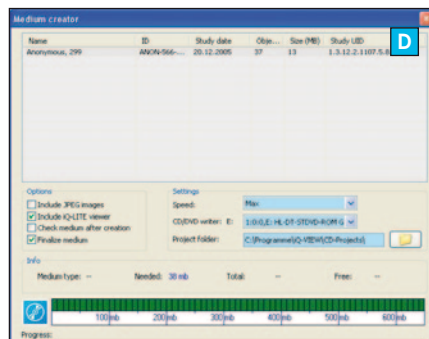
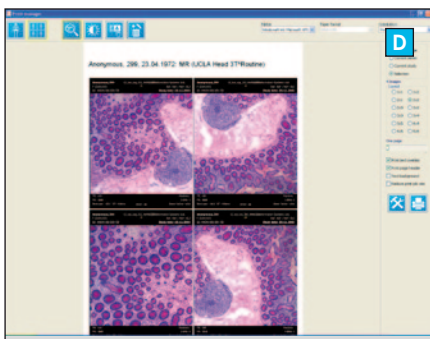
A The iQ-VIEW PRO software acts as a real DICOM modality and therefore emulates a digital device. Preview images may be seen live on the capture screen.



B It is possible to exactly configure the proper aspect ratio of the source image in order to create consistently captured data. There is a feature to define the area of interest if the medical images are smaller than the screen size.



C Virtually no loss in image quality enables users to even measure distances and angles in captured images but not Hounsfield Units of captured CT screens.



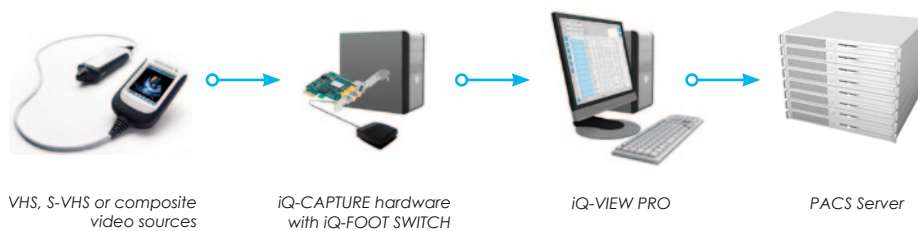
D Result images can be printed on Postscript compatible paper or film printers, sent to DICOM imagers of any brand, burned on CD, DVD or memory stick, sent by email or transferred automatically to any connected PACS.

iQ-CAPTURE / PRO WORKFLOW

There are 2 different hardware packages available, depending on the video format to acquire:

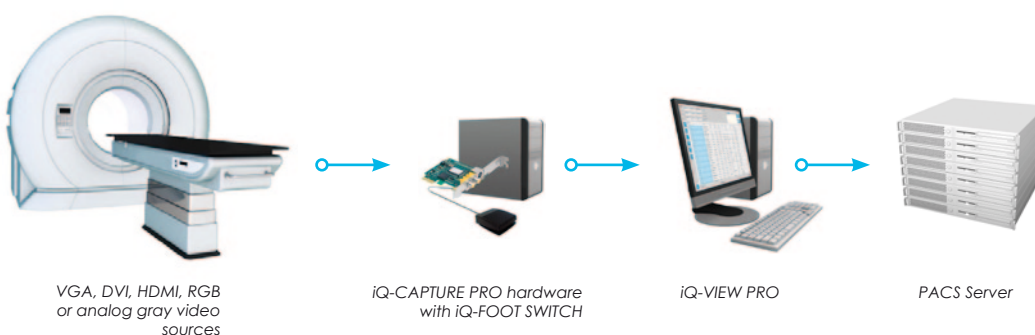
1 iQ-CAPTURE hardware package

Using the iQ-CAPTURE hardware with the iQ-VIEW PRO software, users may capture single medical images or sequences from any VHS, S-VHS or composite video sources by grabbing from a loop through the video monitor signal. Those video signals are typically used by ultrasound devices, cameras and VCRs. The iQ-CAPTURE hardware package includes a PCI frame grabber card and a USB HID compliant foot switch. The iQ-VIEW PRO software and a standard Windows compatible computer need to be ordered separately!



2 iQ-CAPTURE PRO hardware package

Using the iQ-CAPTURE PRO hardware with the iQ-VIEW PRO software, users may capture single medical images or sequences from any VGA, DVI, HDMI, RGB or analog gray video sources by grabbing from a loop through the video monitor signal. Those video signals are typically used by CT and MRI scanners, fluoroscopy devices, older medical machines or any other high-resolution video sources. The iQ-CAPTURE PRO hardware package includes a high-resolution PCI frame grabber card and a USB HID compliant foot switch. The iQ-VIEW PRO software and a standard Windows compatible computer need to be ordered separately!



iQ-FOOT SWITCH FEATURES

DRIVER ▪ Built-in USB HID

CABLE ▪ 2 m USB (6.5 feet)

DIMENSIONS ▪ 7.6 cm by 7.6 cm (3" by 3")

WEIGHT ▪ 160 gram (0.35 lbs)

COLOR ▪ Black



iQ-CAPTURE HARDWARE FEATURES

CARD TYPE ▪ PCI card, 96.1 mm x 119.9 mm (3.8" x 4.7") (other card types on request)

INPUT ▪ One S-VHS
▪ Two CVBS (Composite Video)

IMAGE RESOLUTION ▪ Up to 768 x 576 pixels

FRAMES ▪ User-defined, up to 25 frames per second (PAL, SECAM) or 30 fps (NTSC)

ENCODING SYSTEM ▪ PAL, NTSC, SECAM

FEATURES ▪ Image scaling interpolated

OPERATING SYSTEMS ▪ Windows XP, Vista



iQ-CAPTURE PRO HARDWARE FEATURES

DRIVERS

- DirectShow® compatible

CARD TYPE

- PCI express x4 low profile card, 68.9 mm x 167.6 mm (2.71" x 6.5")

INPUT

- One DVI-I type connector (75 Ω terminated)

INPUT MODE DETECTION

- Automatic detection of input modes in hardware enabling the tracking of mode changes in the source signal

ANALOG RGB RESOLUTIONS

- 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080 and 2048 x 1536 pixels, Custom modes

ANALOG MONOCHROME RESOLUTIONS

- 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080 and 2048 x 1536 pixels, Custom modes

DVI SINGLE LINK RESOLUTIONS

- 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080 and 1920 x 1200 pixels, Custom modes

HD RESOLUTIONS

- 1080p, 1080i, 720p, 576p, 576i, 480p and 480i using a Component-DVI connector (HDCP not supported)

FRAME RATE

- User-defined, up to 60 frames per second, limited by available PCI-Express bandwidth. Triple buffer to eliminate tearing artifacts

VIDEO FORMAT OPTIONS

- Analog RGB plus HSync and VSync (5 wire)
- Analog RGB with Composite Sync (4 wire)
- Analog RGB with Sync on Green (3 wire)
- DVI Single Link

ANALOG INPUT RANGE

- Min 0.5 Vpp, Max 1.0 Vpp

INPUT OFFSET

- +/- 2 V
- Hsync: 15 kHz - 110 kHz
- Vsync: No hardware limits, typically 25 Hz - 200 Hz for real signals
- Separate Sync Polarity: Positive or Negative (Separate H & V sync, Composite Sync)
- Sync On Green Polarity: Negative



SYSTEM REQUIREMENTS

	MINIMUM	RECOMMENDATION
OS:	Windows XP, Vista	Windows XP Windows 7 Professional (or higher) 32 bit
CPU:	Pentium, 1 GHz	Pentium, 1,5 GHz
RAM:	At least 512 MB	512 MB for single images 2 GB for video sequences, Vista + 1 GB
HDD:	At least 40 GB	Fast hard disc if sequences shall be captured
Card Slot:	One empty PCI Slot (BASIC) One empty PCI-Express Slot (PRO)	
Software:	iQ-VIEW PRO 2.5 or higher	iQ-VIEW PRO 2.6
Port for foot switch:	USB 1.1 or higher	USB 2.0

OUR SOLUTIONS FOR YOUR IMAGING NEEDS

iQ-VIEW	The radiology reading station
iQ-VIEW 3D	3D post-processing workstation
iQ-STITCH	Tool for the creation of full spine and full leg images
iQ-CAPTURE	Add-on hardware module for capturing images from analog video sources
OrthoView™	Add-on module for orthopedic templating and trauma planning
DICOMReader	Reading portable DICOM media into any PACS
iQ-WEBX	PACS server for storage, teleradiology and image distribution
iQ-WEBX WADO	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-WORKLIST	DICOM worklist server optimizing your workflow
iQ-MAIL	Simple teleradiology using DICOM email
iQ-NUC	Complete package for nuclear image processing
iQ-RIS	The smooth radiology information system
IMAGE DISPLAYS	Medical diagnostic displays
iQ-CR ACE	Efficiency in CR

