



# CAPTURE

ADD-ON MODULE FOR CAPTURING IMAGES  
FROM ANALOG VIDEO SOURCES

# *CAPTURE ANYTHING TO DICOM*



VERSION 1.2



## ***CONNECT ANY MEDICAL DEVICE TO YOUR PACS***

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

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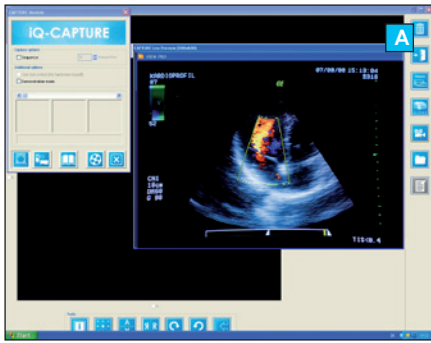
While going digital and switching to PACS, many hospitals or imaging centers are faced with medical devices without DICOM connectivity or costly DICOM interfaces. In order to solve this issue, there are two different solutions to capture any video signal to DICOM – iQ-CAPTURE and iQ-CAPTURE PRO.

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

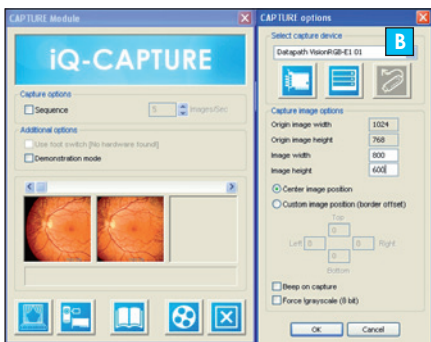
Windows compatible PC. Medical operators can easily capture any image using the iQ-VIEW PRO software with the included foot switch or the computer mouse. Demographic data of the captured images can either be entered manually, copied from existing data or requested from a DICOM MODALITY WORKLIST source.

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

# iQ-CAPTURE SCREENSHOTS



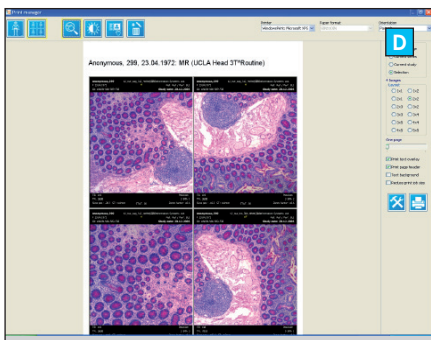
**A** The iQ-VIEW PRO software acts as a real DICOM modality and therefore emulates a digital device. Preview images may be seen live on the capture screen.



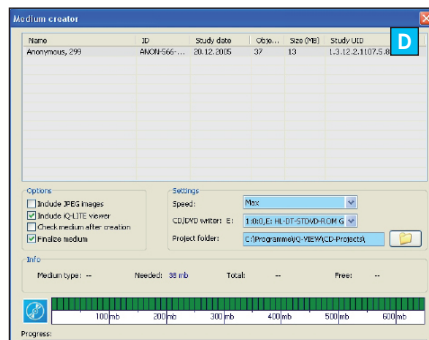
**B** It is possible to exactly configure the proper aspect ratio of the source image in order to create consistently captured data. There is a feature to define the area of interest if the medical images are smaller than the screen size.



**C** Virtually no loss in image quality enables users to even measure distances and angles in captured images (except Hounsfield Units of captured CT screens).



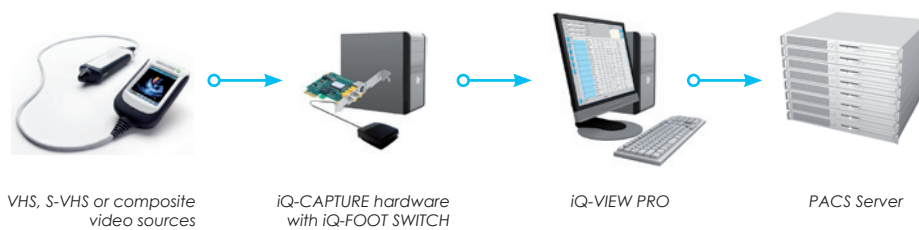
**D** Result images can be printed on Postscript compatible paper or film printers, sent to DICOM imagers of any brand, burned on CD, DVD or memory stick, sent by email or transferred automatically to any connected PACS.



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

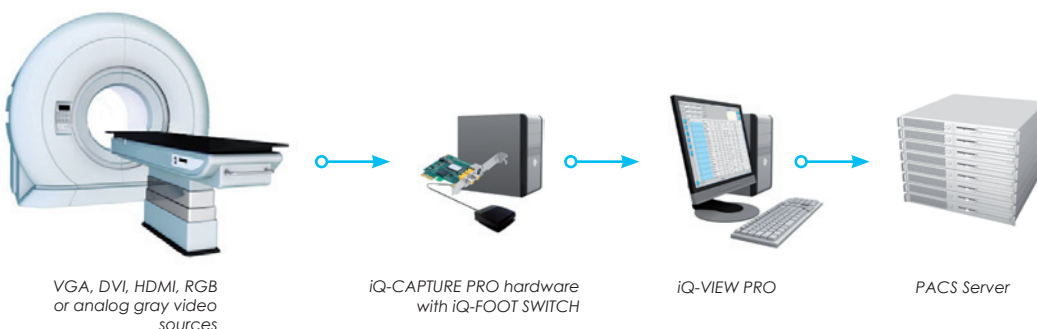
## 1 iQ-CAPTURE hardware package

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 source 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 source 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 g (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  
▪ Shortcuts for quick selection of multiple input channels/devices (New!)  
▪ Context menu in preview pane incl. shortcut access (New!)

**OPERATING SYSTEMS** ▪ Windows XP, Vista, Windows 7 Professional and higher (New!)



# *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  $\Omega$  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



## HARDWARE & SOFTWARE REQUIREMENTS

	MINIMUM	RECOMMENDATION
<b>OS:</b>	Windows XP, Vista	Windows XP Windows 7 Professional (or higher) 32 bit
<b>CPU:</b>	Pentium, 1 GHz	Pentium, 2 GHz
<b>RAM:</b>	At least 512 MB	2 GB
<b>HDD:</b>	At least 40 GB	Fast hard disk if sequences shall be captured
<b>Graphics:</b>	any ATI or nVidia chipset supporting DirectX 9 or higher	nVidia chipset supporting DirectX 9 or higher
<b>Card Slot:</b>	One empty PCI Slot (BASIC) One empty PCI Express Slot (PRO)	
<b>Software:</b>	iQ-VIEW PRO 2.5 or higher	iQ-VIEW PRO 2.7
<b>Port for foot switch:</b>	USB 1.1 or higher	USB 2.0

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