

CAPTURING MEDICAL IMAGES FROM VIDEO SOURCES

iQ-CAPTURE is an optional add-on for iQ-VIEW PRO for capturing medical images from analog and digital video sources.

While going digital and switching to PACS, hospitals or imaging centers are faced with medical devices without DICOM connectivity or costly DICOM interfaces. iQ-CAPTURE provides a solution for this dilemma. The software captures medical images from sources that are unable to create and/or send DICOM compliant images.

iQ-CAPTURE is an optional software interface for iQ-VIEW PRO. It can handle both analog and digital video signals from sources, such as non-DICOM CT, MRI, or ultrasound and fluoroscopy devices, from cameras, microscopes and others. The video signals are transformed to still images and shown as previews live on the capture screen. The captured images are transferred to iQ-VIEW PRO in order to match them with appropriate patient and study information and convert them into DICOM images. Those can then be stored in the PACS and used for clinical reference.

The capture process requires specific hardware components, such as an appropriate frame grabber card. You can purchase either the iQ-CAPTURE or iQ-CAPTURE PRO hardware package. The difference lies in the frame grabber hardware that connects to a different range of video sources.

iQ-CAPTURE



VHS, S-VHS or composite video sources

iQ-CAPTURE PRO



VGA, DVI, HDMI, RGB or analog gray video sources



iQ-VIEW PRO with iQ-CAPTURE (incl. frame grabber card and foot switch)



PACS Server

HARDWARE FEATURES

	iQ-CAPTURE card	iQ-CAPTURE PRO card
Drivers	DirectShow® compatible	DirectShow® compatible
Card type	PCIe x1 93.5 mm x 68.78 mm (3.7" x 2.7")	PCI express x4 low profile card 68.9 mm x 167.6 mm (2.71" x 6.5")
Input	1x S-Video 1x Cinch Video 1x Cinch Audio (left) 1x Cinch Audio (right)	1x DVI-I type connector (75 Ω terminated) Automatic detection of input modes in hardware enabling the tracking of mode changes in the source signal Analog input range: min. 0.5 Vpp, max. 1.0 Vpp Input offset: <ul style="list-style-type: none"> ▪ +/- 2V ▪ 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
Image resolution	Up to 720 x 576 pixels	Analog RGB / Analog monochrome <ul style="list-style-type: none"> ▪ 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080, 2048 x 1536 pixels, custom modes) DVI Single Link <ul style="list-style-type: none"> ▪ 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080, 1920 x 1200 pixels, custom modes) HD <ul style="list-style-type: none"> ▪ 1080p, 1080i, 720p, 576p, 576i, 480p, 480i using a component-DVI connector (HDCP not supported)
Frame rate	User-defined, up to 25 fps (PAL) or 30 (NTSC)	User-defined, up to 60 fps, limited by available PCI-express bandwidth. Triple buffer to eliminate tearing artifacts.
Encoding / video format	PAL, NTSC	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



iQ-CAPTURE card



iQ-CAPTURE PRO card



iQ-FOOT SWITCH

	iQ-FOOT SWITCH
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