



Braedius Medical Introduces New Cytocam



Braedius
Medical

Introducing
New CytoCam Camera Adapter
New CytoCamTools V2 software

New Cytocam

The CytoCam is the latest in bedside technology to observe the human microcirculation using a handheld video microscope platform for the identification and monitoring of diseases that have potential clinical applications in the areas of Critical Care Medicine, Plastic Surgery, Wound Care and Organ Transplantation.

Unlike current instruments that were introduced in earlier years, the CytoCam sports a state of the art bedside imaging technology that combines the latest in camera and optical technology with a fan less Medical grade Panel PC Dual core processor system.

The CytoCam is very portable. Mounted on a rolling stand the instrument can be easily rolled from patient room to patient room. The small tactile probe is connected to the medical grade PC which offers a large screen for easy observation by the technician for capturing the videos.

The videos can be stored and easily analyzed on the same PC, allowing quick analysis at the bedside. New CytoCamTools V2 software introducing the concept of Intervention Based Analysis as opposed to video based analysis, allowing to easily monitor changes of the microcirculatory parameters.

Features

- CytoCam - A Complete Solution for bed-side microcirculatory assessment
- New high speed Camera adapter developed by Braedius
- Color support and capability for realtime image processing
- a high-resolution camera, 10 bit RAW, RGB
- very light and easy to handle
- high contrast images, up to 90 fps (full resolution)
- highly accurate, motor assisted focusing
- very short illumination pulse time for freezing RBC motion
- camera controller based on medical grade PC for image storage and analysis
- includes a camera adapter with a dedicated microprocessor for controlling
- extremely easy user interface. Optional: Remote control by "AirMouse"
- CytoCamTools Research Edition for camera management, capturing, file editing and reviewing
- CytoCamTools Optional Module for analysis of capillary density and flow

Cytocam Camera

- Sensor
 - 14 Megapixel: 4416 x 3312 pixels ,
 - pixel size : 1,4 x 1,4 μm
 - in binning mode:
 - 2208 x 1648 pixels, pixel size 2,8x2,8 μm
 - image area: 6227x4653 μm
 - output: 8 bit RAW, RGB
 - image transfer rate: 25 fps (full resolution)
 - Optics
 - Microscopy lens designed for Braedius
 - Magnification factor: 4
 - Field of view: 1,55 x 1,16 mm
 - Focusing
 - Focusing: manually controlled motorized focusing system,
 - Step Size 4 μm , accuracy <2 μm
 - Illumination
 - Based on Incident Darrkfield Imaging (IDF)
 - High Brighthness LEDES
 - Standard color: green
 - Pulse time: 2 ms
- Camera Device Controller
- Based on Medical grade Panel PC
- SSD memory
- Fanless system, backup battery
- Camera adapter developed by Braedius
 - Dedicated microprocessor for camera control
 - High speed data transfer between camera and controller

Software

- Free CytoCamTools Research Edition
 - CameraManager , Viewer, Editor
 - application and driver available for Windows
 - 7 - 64 bit
 - Optional CytoCamTools Microcirculation Assesment module
- Safety and Protection
- disposable medically clean protection cap
 - sterile protection cap (2014) sleeve

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