

why is gas bubble monitoring important?

„Transcranial detected bubbles are related to the microbubble concentration in the ECC“

[BORGES M.A. et.al.; J.Thorac.Cardiovasc. Surg. 2001; 4:743-49]

how does the monitoring work during perfusion?

measuring system with up to three sensors for simultaneous monitoring of single components

what can be measured?

gas bubbles in size, number and volume with high sensitivity during the complete operation

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bcc300

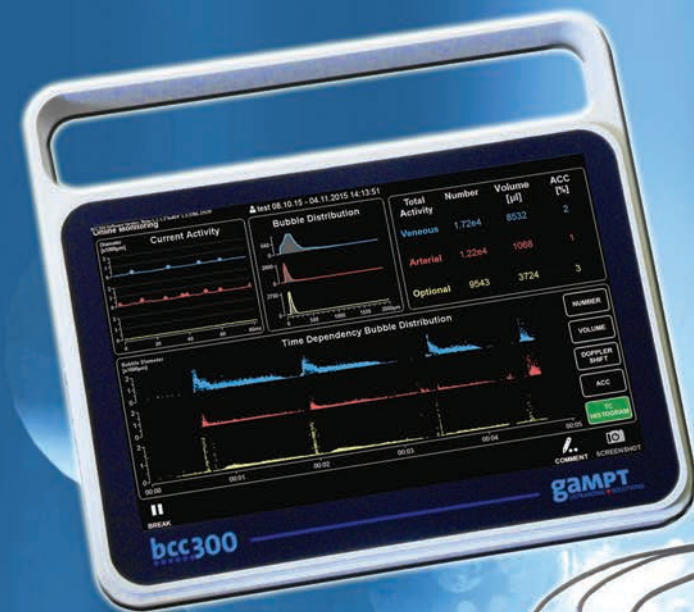
the BubbleCounter
for the clinical monitoring of
microbubbles

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**the BubbleCounter
for the clinical monitoring
of microbubbles**

**Increased safety at open heart surgery
because of monitoring of microbubbles
in the ECC during perfusion**

**Software BCC300
simultaneous evaluation
of up to 3 channels/sensors**

- innovative system to analyze microbubbles in flowing liquids
- simultaneous monitoring with up to three sensors
- continuous monitoring at ECC
- detection of microbubbles as of $5\mu\text{m}$ size to be used with all heart lung machines
- patented sensor system
- touchscreen controlled
- easy data transfer via USB

- optimizing the handling at the HLM can reduce the gas bubble activity
- optimization of the setups
- real time information about bubble activity in ECC
- increasing safety because of modern air bubble management in the ECC

- optical and acoustic display of the current bubble activity
- monitoring of the sensor functionality via reference signal
- display of the cumulated bubble distribution in histograms
- detailed time-course of bubble number, bubble volume, acoustic coupling and bubble speed
- time-course display of the bubble distribution
- integrated data management and archiving
- offline analysis and pdf documentation directly at device
- detailed offline evaluation on the PC, e.g. for scientific publications (data transfer in ASCII or Excel format)

