



# Largest installation at CeBit

## Case: q-bus Mediaktektur at CeBit 2008

**Product:** MultiTouch Cornerstone **Use case:** exhibition

### q-bus Mediaktektur realised the largest stand at CeBit 2008 for Deutsche Telekom - featuring a long multitouch wall display running a single, seamless application.

The screen was 6 m wide by 1,5 m high. q-bus also built a table display with 1,7x1,2 m display area. q-bus Mediaktektur used the MultiTouch Cornerstone software to track the users hands on the screen, connected to q-bus' own rendering and database technology. MultiTouch consulted regarding the final design of the tracking system.

The first integration tests of MultiTouch Cornerstone SDK with the rendering and database technology by q-bus was accomplished in less than an hour. q-bus could then proceed to build the high-quality application for their customer based on the MultiTouch Cornerstone hand tracking.

The display was used to build a large interactive installation to attract and engage visitors in a social experience for informing about services and products of T-Home.

The multitouch wall screen built by q-bus Mediaktektur utilised MultiTouch Cornerstone for hand and multitouch tracking creating a success case utilising flexibility and scalability of the solution.

Customer's requirements were:

- robustness, reliability and performance for a world class installation
- large wall screen running a seamless tracking of 6x1,5 m
- the hand-tracking computer vision performed on a single standard Mac Pro computer
- large groups of users touching the display, identifying and tracking each hand simultaneously at a high frame rate
- the system working under bright ambient lighting

The deployment of the Cornerstone required simple steps:

- choosing a platform, in this case Mac OS X
- choosing number and models of cameras for computer vision, based on recommendations by MultiTouch
- creating infrared-illumination system using in-house resources by q-bus
- designing and building the installations, with little help needed from MultiTouch.



q-bus Mediaktektur's extra-large installation for Deutsche Telekom at CeBit 2008.

### More information

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### /// Challenge

To create an extra-large multiuser multitouch display to attract a big number of people simultaneously.

### /// Solution

A customised MultiTouch projection display with MultiTouch Cornerstone software.

### /// Benefits

The display could be made extra large seamlessly for a big number of people to use simultaneously.