

at the same time, the touch screen also including a sensing circuit that acquires data from the sensing device and that supplies the acquired data to the processor.

**29.** A touch screen method comprising:

driving a plurality of sensing points;

reading the outputs from all the sensing lines connected to the sensing points;

producing and analyzing an image of the touch screen plane at one moment in time in order to determine where objects are touching the touch screen; and

comparing the current image to a past image in order to determine a change at the objects touching the touch screen.

**30.** A digital signal processing method, comprising:

receiving raw data, the raw data including values for each transparent capacitive sensing node of a touch screen;

filtering the raw data;

generating gradient data;

calculating the boundaries for touch regions base on the gradient data; and

calculating the coordinates for each touch region.

**31.** The method as recited in claim 30 wherein the boundaries are calculated using a watershed algorithm.

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