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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.

17. The non-transitory computer readable medium as recited in claim 16, wherein the boundaries are calculated using a watershed algorithm.

18. The non-transitory computer readable medium as recited in claim 16, wherein filtering the raw data comprises reducing noise in the raw data.

19. The non-transitory computer readable medium as recited in claim 16, wherein the raw for each transparent

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capacitive sensing node of a touch screen corresponds to a data point, and filtering the raw data removes single data points that are not connected to other data points.

20. The non-transitory computer readable medium as recited in claim 16, wherein filtering the raw data generates filtered raw data, and the computer executing the computer code generates the gradient data is based on the filtered raw data.

21. The non-transitory computer readable medium as recited in claim 16, wherein the computer executing the computer code calculates the coordinates of each touch region by calculating a centroid of each touch region with the raw data associated with each touch region.

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