



RESEARCH ARTICLE

Zforce Touchscreen Technology

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Abstract— Neonode has patented and commercialized the zforce(an abbreviation for “zero force necessary”) touch technology ,which was designed to overcome many of the limitations of today’s touch screens .The premise of the company’s approach entails the projection of an infrared grid across an electronic display. As users tap, swipe, or write on the screen, zforce detects the location of the touch based on the Interruption in infrared light projecting across the screen, which translates to coordinates on the grid. The zforce architecture and input method is believed to be unique to Neonode. A zforce Touch Screen can be activated y multiple modes of input, including bare fingers, gloves, styluses, and (multiple simultaneous to touches). It is uncommon today to find both pens.as well as recognizes multi-touch these features innately built into the same touchscreen. The resistive touch technology used on most PDAs to recognize stylus writing works as a spot on the screen is pressed inward, causing one layer of the touchscreen to make contact with a layer beneath. This contact sends a signal to the device to recognize the touch. Although relatively low cost, resistive touchscreens do not typically allow multi-touch (swiping, gesturing).

Full Text: <http://www.ijcsmc.com/docs/papers/September2013/V2I9201321.pdf>