



ProCap Solution

At the beginning of Asia Lunar New Year, we wish all of our customers and readers a good health and a successful year of the Tiger.

In the current IT market, we can see different products such as Tablet PC, Notebook using the ProCap touch screen and with multi touch features. One of the major specification requests for these products, using Projected Capacitive touch screen, is about the weight of products. It has to be “light” and the thickness to be very “thin”. Our first design of Projected Capacitive touch screen is based on 2 layers thin glasses laminated structure which can not be too thick while the weight specification is deemed as major concerned. Estimately, the 10” or 11.6” Projected Capacitive touch screen for IT product will be with total thickness of 1.0mm only.

The operation theory of Projected Capacitive touch screen is based on the glass itching design in diamond shape, and the diamond shape of top and bottom ITO layer has to be overlapping with each other. When finger is touching the glass surface, regardless if it’s one touch or multi touches, controller will detect the position according to its capacitance changes. Apple products design is itched the ITO along X and Y axis in square shape on both sides of a glass, while many other designs are by itching the ITO as 2 layers of diamond shape on top of glass side and setting a bridge on the crossing of X and Y axis. This is the design method which we aware from the present IT products using the ProCap touch technology.

However for industrial field or industrial products, “thin” and “light” are not deemed as the necessary advantages. The most needed specification for industrial products are about “durability” and “toughness against impact”. Many customers told us their basic requirement and interests for projected capacitive touch solution are to be able to apply thickness of 3mm or upto 5mm glass in front of the touch screen. The multiple applications with 2 points Gesture feature is the practical usage needed. Also the dimensions are mainly aimed for medium and large sizes. AMT receive the feedback from customer and market, so after we start delivering the 7” Projected Capacitive input (PCI) touch screen sample to customer’s for the software development, we aggressively work on the 7” Projected Capacitive input (PCI) touch screen with 2.8mm thicker top glass solution, and adding ITO on the backer surface as EMI shielding.

We have uploaded a new demo video about PCI with thicker glass on AMT website for your reference and the link is as following: <http://www.amtouch.com.tw/video.asp> The purpose of this video is to show how the (PCI) touch screen works with thicker front glass, and the performance about forceless operation for touch button, drag and slide function. Demo program shows the easy operation with dragging in games and sliding function for adjustment about light contrast. All these design concepts are based on industrial requirement. Presently AMT PCI solution can fulfill maximum 3mm thick glass at contact side and the structure of the samples is made with glass to glass. We are continuously developing the different construction (PCI) touch screen solution. If you are interested in such samples, please feel free to contact us.

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Advance to the future with AMT's touch solutions.

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