



True Flat Design --- Touch Window and Touch Screen with Graphic layer

More and more ID designers have considered to apply true-flat touch screen to their new product design; the mobile phone industry was the first to adopt this design idea. Recently many commercial equipments such as Digital Signage, or industrial/medical equipments have started to adopt such design as well. In consumer or commercial market aspects, true flat touch screen allows the finished product to look fashionable; and in the industrial/medical market, true flat touch design gives easy to clean, dust-resistant advantages at the front surface.

There is a graphic layer on the top of the touch screen to cover the silver trace of touch panel in true flat design; some graphic layers are printed with conductive trace and serves as switches. Generally, there are two kinds of true flat touch screen designs from the market: one is the graphic layer which has its size and shape same as the ITO glass backer or PC backer of the touch screen; this design may need special processing on the edges and corners of the touch screen; or drilled holes may be added to the design for use as camera lens or microphone. The Tail circuit exit location needs special processing as well; either by drilling a hole on the backer or applying a notch along the backer edge. This kind of true flat design, we call it as "Touch Window". This Touch Window design is mostly used in consumer or commercial equipment market. Touch Window is definitely an OEM customized type of project which aims to optimize the customer's idea.

Another true flat design is one with its graphic layer's size bigger than the touch panel; the rear side of the graphic layer, has double-side adhesive on its perimeters for laminating to the mechanical housing. In this design, there is no need for special processing to the backer; no need for notch design, etc., as the graphic layer covers up the touch screen perimeters. This type of design, we call it as "Touch Screen with Graphic layer", and these are mostly used in industrial or medical equipment market. AMT has unique know-how skills for making the front surface flat and with best quality; with no waves or bubbles inside.

AMT is capable of providing the above true flat touch screen designs. We can also provide color printed graphic layers with thickness of 0.188 mm, but excludes the switches; screen size available within 21 inch diagonally from the AA (Active Area) of the touch screen; clear or anti-glare finishes are available. The popular colors for the graphic layer are black and silver; as these colors draw out a metallic look for the finished product which enhanced its overall appearance, making it professional looking; logo printing can be added as well. The true-flat designs are applicable for 4-, 5- and 8-wire resistive touch screens; its activation force is less than 2.5N, and its light transmission around 78%. If you have questions, please contact us, we would be much pleased to discuss with you the most suitable true flat design for your product.

Furthermore, we have updated the resistive and projected capacitive touch screen information on our website, you are welcome to visit our website www.amtouch.com.tw.

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Advance to the future with AMT's touch solutions.

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